Ganpat University

Faculty of Engineering and Technology

VALUE ADDITION PROGRAMS - "Programs that Enhance the Skill"

Objective:

The Value-Added Courses aim to provide additional learner centric graded skill oriented technical training, with the primary objective of improving the employability skills of engineering students. These courses offered beyond the working hours of the institute. These courses are blend of theory/experiment/project/activity-based learning. Students have option to choose a course in order to enhance their skills and knowledge, which will help them to face the challenges of future.

Following Value Added Courses offered by Institute:

Sr. No.	Name of the Course	Course Code
1	Creative & Critical Thinking	2OS101
2	Ethics & Values	2OS102
3	Environmental Studies and Disaster Management	2OS103
4	Energy Conservation and Renewable Energy	2OS104
5	Industrial Management	2OS105
6	Phonetics & Writing Skill	2OS106
7	Probability & Statistics	2OS107
8	Research Methods and Statistical Applications	2OS108
9	Water Resource Management	2OS110
10	Economics for Engineers	2OS111
11	Supply Chain Management-Planning	2OS112
12	Introduction to Computer Technology	2OS113
13	Entrepreneurship Development	2OS114
14	Career Development Program-I	2OS116
15	Career Development Program-II	2OS117
16	Professional Skill Building-I	2OS118
17	Professional Skill Building-II	2OS119
18	Career Development	2OS121
19	Organizational Behaviour	2OS131
20	Research Ethics	2OS132
21	Resume Writing	2OS133
22	Pattern Recognition and Image Analysis	2OS134
23	Personality Development	2OS136
24	Numerical Methods	2OS137
25	Introduction to Literature	2OS138
26	Introduction to Econometrics	2OS139
27	Engineering Law	2OS140
28	Introduction to Robotics	2OS141
29	Industrial Safety & Maintenance Engineering	2OS142
30	Energy & Environment	2OS143
31	Thermal Management of Electronic System	2OS144
32	Machine Learning	2OS145
33	Introduction to Fire and Safety Engineering	2OS146
34	Composite Materials	2OS149
35	Arduino for Engineers	2OS150
36	Basics of Quality Management	2OS161
37	Financial Management	2OS162
38	Finite Element Method	2OS163
39	Disaster Management	2OS164
40	Human Resource Management	20S171
41	Modern Indian History	20S172
42	Electrical Power Utilisation and Safety	2OS173

43	Operating Systems	2OS174
44	Air Pollution Control Techniques	2OS181
45	Functional Foods and Health Supplements Theory	2OS182
46	Project Management	2OS191
47	Renewable energy sources	2OS192
48	Health and Nutrition	2OS193
49	Matlab for Engineers	2OS194
50	Technical Writing	2OS195
51	Operations Research	2OS201
52	Elements of management	2OS202
53	Yoga and Meditation	2OS203
54	Economics for Engineer	OSAE101
55	Entrepreneurship Development	OSAE102
56	Electric Machines and Applications	OSAE103
57	Fundamental of Electronics	OSBM101
58	3D printing	OSBM102
59	Digital Marketing	OSCE101
60	Animation	OSCE102
61	Research & Publication Ethics	OSCE103
62	BUSINESS ECONOMICS	OSCE104
63	PRINCIPLES OF MANAGEMENT	OSCE105
64	Basics of remote surveying and GIS	OSCEAI101
65	ADVANCED SURVEYING	OSCEAI102
66	Applied Statistics	OSCI101
67	Road Safety Management	OSCI102
68	Remote sensing, GIS and GPS	OSCI103
69	Introduction to Accounting	OSCI104
70	Industrial Safety	OSEE101
71	PCB design and fabrication	OSEE102
72	Electrical Estimation and Energy Auditing	OSEE103
73	Advanced Photogrammetry	OSIT101
74	Social Network Analysis	OSIT102
75	E-Resources & E-Publication	OSIT103
76	COMPUTER APPLICATION IN MARKETING	OSIT104
77	ACADEMIC RESEARCH & REPORT WRITING	OSIT105
78	Media Culture and Society	OSMC101
79	FPGA based VLSI Design	OSMC102
80	Advanced Instrumental Techniques	OSMC103
81	International taxation	OSMC104
82	Yoga and Meditation	OSMC105
83	Concept and use of MS word, MS excel & MS power point	OSME101
84	Introduction to Mechatronics	OSME102
85	Cryogenics Engineering	OSME103
86	PIPING DESIGN ENGINEERING	OSME104
87	POWER PLANT DESIGN	OSME105
88	Leadership Development	OSMR102
89	POSITIVE PSYCHOLOGY	OSPCE101
90	Contributory traits as engineer	OSPCE102
91	HUMAN RESOURCE MANAGEMENT	OSPCE103
92	General studies for Civil services	OSCSBS101

Contact Hours: 30 Hours or more

Course Faculty: Expert faculty from Ganpat University, outside university & Industry.

Eligibility: Courses are open for all Engineering students.

Registration: Submit the registration form duly filled by participants. Final list of Participants are to be displayed on the notice board.

Dr. Kiran Amin Executive Dean, FoET, Ganpat University.



		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	amme	B.Tech	
Subje	ct Name	Creative and Critical Thinking	
Subje	Subject code 20S101		
Learn	ing Outcome:		
On su	ccessful completion of	of the course, the students will be:	
•	able to enhance th	eir creative and innovative thinking skills	
•	familiar with proce	esses and methods of creative problem solving: observation, definition, represen	tation,
	ideation, evaluatio	n and decision making	
•	able to take better	decisions	
•	able to evaluate fa	cts in an argument	
•	learn the Art of Qu	iestioning	
•	able to be better t	hinkers	
Syllab	us - Theory		1
Unit	Content		Hrs
1	Initial Consideration	ns: Exploring Thinking In General 1. Ascertain personal thinking strengths and	6
	weaknesses 2. Com	pare personal thinking habits to those of others 3. Compose personal goals for	
	thinking skills impro	ovement	
2	Introduction to crea	ativity and innovation, differentiation between creative and critical thinking,	8
	thinking styles and	common mistakes of thinking, thinking about information and emotions, truth	
	and knowledge, eva	aluating knowledge by asking the right questions about issues, conclusions,	
	reasons, assumptio	ons and evidence etc.	
3	Techniques for imp	roving creativity: Brainstorming, lateral thinking, list of mental associations,	8
	random considerat	ions, matrix of ideas, use of manipulative verbs, tree of possibilities,	
	abstractions, transf	formation, use of mind stimulation: games, brain twisters and puzzles.	
4	Creativity in Proble	m Solving: Problem definition, understanding, representing, pattern	8
	bracketing, thinking	g differently, changing your point of view, watching for paradigm shift,	
	challenging conven	tional wisdom, lateral thinking etc	
Refer	ences		
1	Asking the Right Qu	uestions by M. Neil Browne, Stuart M. Keeley	
2	Teach Yourself to T	hink by Edward Ee Bono	
3	Lateral thinking		

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	amme	B.Tech	
Subject Name Ethics & Values			
Subje	ct code	2OS102	
Learn	ing Outcome:		
After	successful completion	n of the course, student will be able to	
•	Be aware and unde	erstand importance of Engineering Ethics and Human Social Values	
•	Understand social	responsibilities of an engineer	
•	Appreciate ethical	dilemma while discharging duties in professional/industrial life.	
Syllab	us - Theory		
Unit	Content		Hrs
1	Human Values: Mo	rals, Values and Ethics – Integrity – Work Ethic – Honesty – Courage – Empathy –	6
	Self-Confidence – C	Character = Continuous Happiness and Prosperity- A look at basic Human	
	Aspirations, Understanding and living in harmony at various levels		
2	Engineering Ethics: Senses of 'Engineering Ethics' - variety of moral issued - types of inquiry - moral 6		
	dilemmas - moral autonomy - Kohlberg's theory - Gilligan's theory - consensus and controversy –		
	Models of Professional Roles - theories about right action - Self-interest - customs and religion -		
	uses of ethical theo	ories. Valuing Time – Co-operation – Commitment –	
3	Engineering as Soci	al Experimentation: Engineering as experimentation - engineers as responsible	6
	experimenters - co	des of ethics - a balanced outlook on law - the challenger case study	
4	Safety, Responsibili	ities and Right: Safety and risk - assessment of safety and risk - risk benefit	6
	analysis and reduci	ng risk - the Three Mile Island and Chernobyl case studies, Collegiality and	
	Loyalty - respect fo	r Authority – collective Bargaining - confidentiality - Conflicts of Interest –	
	Professional rights	- Employee Rights.	
5	Global Issues: Mult	inational corporations - Environmental ethics - computer ethics - weapons	6
	development - eng	ineers as managers-consulting engineers-engineers as expert witnesses and	
	advisors -moral lea	dership	
Refer	ences		
1	A Textbook on Prof	essional Ethics and Human Values by Naagarazan, R.S, New Age Pub.	
2	Ethics in Engineerir	ng by Mike Martin and Roland Schinzinger, McGraw-Hill, New York	
3	Engineering Ethics	by Govindarajan M, Natarajan S, Senthil Kumar V. S, Prentice Hall	

GANPAT UNIVERSITY				
		FACULTY OF ENGINEERING & TECHNOLOGY		
Progra	amme	B.Tech		
Subjec	ct Name	Environmental Studies and Disaster Management		
Subjec	ct code	2OS103		
Learni	ng Outcome:			
Upon	completion of this co	ourse, students will acquire knowledge about		
•	Understand the na	tural environment and its relationships with human activities.		
•	Characterize and a	nalyze human impacts on the environment.		
•	Integrate facts, cor	ncepts, and methods from multiple disciplines and apply to environmental proble	ms.	
•	Capacity to integra	te knowledge and to analyse, evaluate and manage the different public health as	pects	
	of disaster even	ts at a local and global levels.		
Syllab	us - Theory		1	
Unit	Content		Hrs	
1	Introduction to Env	vironment:	5	
	Definition, Compo	nents of Environment, Relationship between different components, Man-		
	Environment relation	onship, Impact of Technology on the environment, Environmental Degradation,		
	Sustainable Develo	pment, Environmental Education.		
2	Ecology & Ecosyste	ems:	6	
	Introduction: Ecolo	ogy- Objectives and Classification, Concepts of an ecosystem- structure &		
	function of ecosystem, Components of ecosystem- Producers, Consumers, Decomposers,			
	Energy flow in the ecosystem - Ecological succession Food chains, food webs and ecological			
	pyramids Introduction, types, characteristic features, structure and function of the following			
	ecosystem: (a) For	ecosystems (nonds streams lakes rivers oceans estuaries)		
2	ecosystems (ponds)	, streams, lakes, rivers, oceans, estuaries)	6	
3	Environmental Poli	lution:	6	
	Air Pollution: Composition of air, Structure of atmosphere, Ambient Air Quality Standards,			
	Noise Pollution:	politicality, sources of common all politicality like SPIN, SO_2 , NO_X .		
	Ambient noise leve	Is Effects of noise pollution. Noise pollution control measures		
	Water Pollution	Introduction – Water Quality Standards Sources of Water Pollution		
	Classification of wa	ter nollutants Effects of water nollutants		
	Current Environme	ental Global Issues: Global Warming and Green Houses Effect. Acid Rain		
	Depletion of Ozone	laver.		
4	Energy Resources:		3	
	Renewable Resou	rces. Non-renewable Resources. Indian Scenario. Destruction versus	-	
	Conservation.	,,,,,		
5	Renewable Resou	rces, Non-renewable Resources, Indian Scenario, Destruction versus	4	
	Conservation.			
	Introduction, Types	s of Natural Disasters, Accidental Disasters, Impact of Disasters on Trade and		
	International Trade			
6	Types of Disaster		6	
	Introduction, Earth	hquakes, Tornadoes, Floods, Tsunami, Volcanoes, , Forest Fires, Severe,		
	Landslides, Epidem	nics and Insect Infestations, Types of Technological Hazards, Social Disasters,		
	Components of Di	isaster Management, Government's Role in Disaster Management through		
	Control of Informat	tion, Actors in Disaster Management.		

Text B	ooks
1	Basics of Environmental Studies by Dr. N. S. Varandani, Books India Publications.
2	Disaster Management by MukeshDhunna, Vayu Education of India, Delhi Publication
Refere	ence Books
1	Environmental Studies by R. Rajagopalan, Oxford University Press Publication.
2	Environmental Science by Richard T Wright & Bernard J Nebel, Prentice Hall India Publication.
3	Environmental Science by Daniel B Botkin& Edward A Keller, Wiley Publications.
ICT/M	OOCsReference
1	http://www.nptelvideos.com/civil_engineering/environmental_air_pollution_video_lectures.php
2	https://www.geo.lu.lv/fileadmin/user_upload/lu_portal/projekti/gzzf/Vides_zinatne_kursi/2014/Eng_100
2	0/15.LECTURE-Natural_disastersCompatibility_Modepdf
3	https://www.slideshare.net/PIRATERHINO/disaster-management-ppt
4	http://nptel.ac.in/courses/105104099/
5	https://www.iare.ac.in/sites/default/files/lecture_notes/dm%20notes.pdf

		GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY			
Progra	mme	B.Tech			
Subjee	Subject Name Energy Conservation & Renewable Energy				
Subjee	t code	2OS104			
Learni	ng Outcome:				
•	Conceptual knowle	edge of the technology, economics and regulation related issues associated with en	nergy		
	conservation and e	energy auditing			
•	Ability to analyze t	he viability of energy conservation projects			
•	Capability to integr	rate various options and assess the business and policy environment regarding ene	ergy		
	conservation and e	energy auditing			
Syllab	us - Theory				
Unit	Content		Hrs		
	ENERGY CONSERVA	ATION			
1	Introduction:		3		
	Concept of Energy	Conservation, Economic aspects of Energy Conservation.			
	Electrical Energy Auditing & Management: 4				
2	Energy Audit-Purpo	ose, dynamics and Methodology with respect to process Industries. Importance			
	of Energy Management, Energy Economics - Discount Rate, Payback Period, Internal Rate of Return,				
	Life Cycle Costing.				
	Energy Conservation	on Approaches and Techniques	4		
•	Potential Areas for	Electrical Energy Conservation in Various Industries. Opportunities in Electrical			
3	Heating, Lighting sy	stem, Cable selection - Energy Efficient Equipment .Concept of Total Energy -			
	Total Energy system	ns- Advantages & Limitations - Total Energy system & Application - Various			
	Possible Schemes In	n Total Energy Systems -Potential & Economics of Total Energy Systems.			
	RENEWABLE ENERG	GY			
1.	Solar Energy		3		
	Solar Power, Oppor	rtunities & limitations of Solar Power technology. Solar power Economics.			
2.	Wind Energy:		4		
	Wind Power, Oppor	rtunities & limitations of Wind Power technology. Wind power Economics			
3.	Energy From Bio m	ass:	6		
	Biomass and Co	nversion Technologies, biomass generation, factors affecting digestion,			
	classification of bio	gas plant , Energy storage and applications .			
4.	Hydro Power Gene	ration	6		
	Principle of Hydro	Power generation, Environmental factors affecting hydro Power Generation.			
	Hydro power Econo	omics.			

		GANPAT UNIVERSITY			
	FACULTY OF ENGINEERING & TECHNOLOGY				
Progra	Programme B.Tech				
Subject Name Industrial Management					
Subje	ct code	2OS105			
Learni	ing Outcome:				
•	Choose, prepare, i	nterpret and use cost estimates as a basis for the different situations in an industria	al		
	company,				
•	Interpret financial	statements and other financial reports of industrial companies, including the incon	ne		
	statement, the bal	ance sheet, the cash flow statement and key measures in these,			
•	Explain how strate	gic planning, management, management control, entrepreneurship, organization,			
	production and lea	rning works in an industrial company,			
•	Explain how the in	dustrial company markets and price it's products,			
•	Explain how the co	mpany deals with its environment.			
Syllab	us - Theory		1		
Unit	Content		Hrs		
1	MANAGEMENT CO	NCEPT AND FUNCTION: Concept and functions-planning, organizing, directing,	4		
	co-ordination, cor	ntrolling, motivating, principle of measurement, traditional v/s modern			
	management, appr	oaches, decision making, delegation			
2	ORGANIZATION: C	oncept, principles, lines and staffs functions, organization structure and its	3		
	importance, system concepts of organization				
3	PRODUCTIVITY AND ITS TECHNIQUES: Concepts, gains of productivity, productivity and economic 4				
	development, role of management in promotion of productivity, selected productivity techniques,				
	work study, time st	udy & work management, quality control CPM and PERT			
4	PERSONNEL MANA	GEMENT: Personnel function, manpower assessment, recruitment, training,	5		
	selection and devel	opment, wages systems, Salary and incentive plans, participate management,			
	performance appra	lisal and counseling, discipline improvement, grievance handling & industrial			
	dispute and metho	as of setting them, union-management, industrial relation.	2		
5	HUMAN SIDE OF	MANAGEMENT: Understanding of human behavior, group dynamics,	3		
6	Interpersonal bena	vior, motivation, communication, leadership.	2		
6	FINANCIAL MANAG	SERVENT: Financial management and quantitative techniques, management	3		
	accounting, breake	ven analysis, preparation & analysis of balance sneet, capital budgeting, cost			
7	ACCOUNTING, COST CO	Untillig, COSt and Dudgetary contract.	2		
/	product developme	AGEIVIENT. Introduction to marketing management concepts & approach,	5		
Q		Eactory act holler act electricity act workman's compensation act and other	2		
0	labor laws	Factory act, bolier act, electricity act, workman's compensation act and other	2		
9	MATERIAL MANAG	EMENT: Introduction objective functions standardization value analysis	3		
	codification invent	ory control stores management industrial nurchasing	5		
Refere	ence Books		l		
4	Industrial Engine and	ing and Management Sciences huw T. D. hange N. K. Aggreuid and S. C. Shawar			
	Industrial Engineer	ing and Management Sciences buy T. K. banga, N. K. Aggrawal and S. C. Sharma			
2	industrial Engineer	ing and ivianagement by O. P. Khanna			

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	amme	B.Tech	
Subje	ct Name	Phonetics & Writing Skill	
Subje	ct code	2OS106	
Learn	ing Outcome:		
•	Explain how Englis	h sounds are articulated	
•	Identify processes	that take place in continuous English speech	
•	Explain the basic fu	unctions of English intonation	
•	Apply their knowle	edge of English phonetics and phonology to improve their own pronunciation, in fu	rther
	studies of language	es and linguistics and in teaching	
•	Understand how E	nglish accents vary and changeable to express themselves in appropriate academic	2
	English		
Syllab	us - Theory		-
Unit	Content		Hrs
1	Introduction		3
	Phonology and Ph	onetic, Articulation and Acoustics, Speech Production, Manners and places of	
	Articulation, Stop -	Oral Stop and Nasal Stop, Phonology and Phonetic Transcription, Consonant and	
	Vowel Charts, Phor	nology, The International Phonetic Association / Alphabet	
2	Articulation: The P	roduction of Speech Sounds	3
	Articulation vs Pror	nunciation / Enunciation, The Articulation of Vowel Sounds, The Face Diagram &	
	Articulators, Classi	fication of Speech Sounds / Criteria for Classification, Description of Speech	
	Sounds / Vowels vs	. Consonants & Semi-vowels	
3	English Segmental	Phonemes 1: Vowels	3
	The Cardinal Vowe	ls / Primary Cardinal Vowels / Criteria For Classifying Vowels / Variables Of Vowel	
	Quality, Descriptio	n & Distribution of English Short Vowels, Long Vowels, Diphthongs / Kinds of	
	Diphthongs: Center	ring & Closing, Tripthongs	
	Fuglish Cognostal	Dhanamaa 2. Canconanta	2
4	English Segmental	ich Conconants, Dotailed Descriptions, Definitions of Phonemas / Allenhanes	5
	/ Complimentary	Distribution / Free Variations Distribution and Poplizations of English	
	Consonants	Distribution / Free variations, Distribution and Realizations of English	
5	The Syllable Struct		2
5	Definitions: Littera	ure nce / Word / Syllable Problems in Defining Syllables Structure of the English	5
	Syllable Detailed D	escription of the English Syllable	
6	Strong / Weak Svill	ables & Weak Forms	3
Ŭ	Definitions: strong	/ weak The Reduced Vowels: the Schwa / close front and close back vowels	5
	Syllabic Consonant	s: nasal / lateral / flap. Weak Forms: Functions Words – Rules about Use of	
	Strong Forms		
7	English Supra-segn	nental Phonemes 1: Stress	3
-	Definition. Degrees	of Stress / Transcription. Word Stress. Considerations in Deciding on Stress	Ū.
	Placement, Senten	ce Stress	
8	English Supra-segn	nental Phonemes 2: Intonation	3
	Definition, Tones v	s. Intonation – Tonal Languages vs. Intonational Languages, Structure of the	
	English Tone Unit, I	Functions of English Intonation	
9	BUSINESS MEMOS	~	2
	Principles and Fun	damentals, Business Memos, Letters Vs Memos, Characteristics and Writing	
	Strategies of Effect	ive Memos, Form and Structure – Parts of a Memo	

10	E-MAILS	1
	Principles and Fundamentals, Advantages and Characteristics of Successful E-mail messages, E-mail	
	Format and Standard E-mail Practices	
11	PROPOSALS	1
	Nature and Significance, Types of Proposals, Structure and Writing Tips for Formal Proposals	
12	TECHNICAL ARTICLES	2
	Nature and Significance, Types of Technical Articles, Journal Articles, Conference Papers, Review	
	and Research Articles	
Refere	ence Books	
1	Technical Communication – Principles and Practice by Meenaksi Raman & Sangeeta Sharma	(Oxford
	University Press)	
2	Effective Technical Communication by M Ashraf Rizvi (TMH Publication)	
3	Finegan, E. (2004). Language: Its Structure and Use (4th ed.). Boston: Thomson Wadsworth	
4	Fromkin, V., Blair, D. & Collins, P. (1991). An Introduction to Language (4th ed.) NSW: Harcourt Austr	alia Pty,
	Limited	
5	O'Grady, W. et al. (1996). Contemporary Linguistics: an Introduction. Harlow: Pearson Education Limit	ted

GANPAT UNIVERSITY					
FACULTY OF ENGINEERING & TECHNOLOGY					
Progra	amme	B.Tech			
Subje	Subject Name Probability & Statistics				
Subje	ct code	2OS107			
Learni	ng Outcome:				
•	Basic probability a	xioms and rules and the moments of discrete and continuous random variables as	well as		
	be familiar with co	mmon named discrete and continuous random variables.			
•	How to calculate p	robabilities of absorption and expected hitting times for discrete time Markov cha	ins		
	with absorbing sta	tes			
•	How to translate re	eal-world problems into probability models.			
•	How to read and a	nnotate an outline of a proof and be able to write a logical proof of a statement.			
Syllab	us - Theory				
Unit	Content		Hrs		
1	Frequency Distribu	tion:	5		
	Collection of data,	Classification of data, Class interval, Types of Classes, Class frequency, Class			
	mark, Class Bound	daries, Width of a class, Frequency density, Relative frequency, Percentage			
	frequency, Cumula	tive frequency			
2	Measures Of Central Tendency: 5				
	Introduction, Arithmetic Mean, Simple and weighted for raw data, Discrete frequency distribution,				
	Continuous frequency distribution, Properties of A.M., Merits & De merits of A.M., Median for raw				
	data, Discrete frequency distribution, Continuous frequency distribution, Merits and demerits of				
	Median, Mode for I	raw data, D.f.s., c.f.s., Merits & demerits of mode			
3	Measures Of Dispersion:				
	Introduction, Range, coefficient of range, Quartiles, Quartiles deviations, coefficient of quartile				
	deviations, Mean of	deviation and coefficient of mean deviation, S.D and variance for all types of			
	frequency distribut	ion, Coefficient of Dispersion, Coefficient of variation			
4	Correlation: Defin	nition of Correlation, Types of Correlation, Scatter Diagram Method, Karl	3		
	Person's Correlatio	on Coefficients, Correlation Coefficients for Bivariate frequency distribution,			
	Probable error for (Correlation Coefficients, Rank Correlation Co-efficient.			
5	Regression: Defin	ition of Regression, Regression lines, Regression Coefficients, Properties of	3		
	regression Coefficie	ents, and Fitting of regression lines and estimation for Bivariate frequency			
	distribution				
6	Probability Theory	:	4		
	Introduction, Rand	om Experiment, Sample Space, Events, Complementary Events, Union and			
	Intersection of Tw	o Events, Difference Events, Exhaustive Events, Mutually Exclusive Events,			
	Equally Likely Even	ts, Independent Events, Mathematical & Statistical definition of Probability,			
	Axiomatic definitio	on of probability, Addition Theorem, Multiplication Theorem, Theorems of			
	Probability, Conditi	onal Probability, Inverse Probability.			

7	Probability Distributions:	6
	Binomial Distribution :	
	Introduction, Probability mass function of Binomial distribution, Mean and Variance of Binomial	
	distribution, Properties of Binomial Distribution, Uses of Binomial Distribution.	
	Poisson Distribution :	
	Introduction, Probability mass function of Poisson distribution, Mean and Variance of Poisson	
	distribution, Properties of Poisson Distribution, Applications of Poisson Distribution.	
	Normal Distribution :	
	Introduction, Probability density function of Normal distribution, Properties of Normal	
	distribution, Importance of Normal Distribution.	
Refere	ence Books	
1	Fundamental of Applied Statistics By S.C. Gupta & V.K. Kapoor , Sultan Chand Publication	
2	Statistical Methods By S. P. Gupta, Sultan Chand Publication	
3	Business Statistics By Prof. H.R. Vyas & Others, B.S. Shah Prakashan	
4	Probability, Statistics and Random Process By T Veerarajan, TMH	

GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	amme	B.Tech	
Subjec	ct Name	Research Methods & Statistical Applications	
Subjec	ct code	2OS108	
Learni	ng Outcome:		
•	Choose the right re	esearch method	
•	Choose the right st	tatistical technique to be used with the research method	
•	Understand when	to apply which statistical procedure	
•	Evaluate, infer, and	d understand a product, situation, services, or a treatment option through statisti	CS
•	Interpret statistica	l literature, research articles, and the claims made on the basis of statistics	
•	Make informed ch	oices with respect to methodology and research design	
Syllab	us - Theory		
Unit	Content		Hrs
1	Research definition	n - meaning - purpose - importance of research - Motivation in research - types	4
	of research - [a) t	theoretical research b) Analytical research] pure research - applied research -	
	action research - S	significance of research in social science - steps followed in research Scientific	
	method - inductior	- deduction Research report- structure of report contents - steps in drafting -	
	Layout of research	report - styles of reporting - editing the final draft - Evaluation of final draft.	
2	Research problem	- sources of problem - formulation of research Problem - criteria in selection of	3
	problem - research	questions - Importance of literature survey - research design - characteristic of	
	Research design - s	teps in research design - types of research design	
3	Sampling theory -	objective of sampling theory - sample testing Techniques - types of sampling -	4
	simple random sar	mpling method - Stratified random sampling technique - systematic sampling	
	method - Cluster	sampling method - multistage sampling method - sampling with Probability	
	proportional to siz	ze method - convenience sampling method - Judgments sampling method -	
	purposive sampling	g method - quota sampling Method steps in sampling design - characteristic of	
	good sample design	n - Sample size - advantage & disadvantage of sampling	
4	Hypothesis testing	- meaning - importance of hypothesis testing – sources Of hypothesis - types	4
	of hypothesis - c	haracteristic of hypothesis - Different forms - fundamentals of testing	
	hypothesis - hypot	hesis testing And generalization - level of significance - error in hypothesis	
	testing - Type of te	sting hypothesis - formulation of hypothesis - difficulties in the Formulation	
	of hypotheses - re	view of literature standard error. Statistical analysis - measures of central	
	tendency and avera	age - Measures of dispersion - skew ness – kurtosis	
5	Research methods	source - historical - the case study - survey research - Experimental research	3
	- field investigation	research – evaluation Research - action research - ex - post facto research –	
	explanatory Resear	ch – exploratory	
6	Research methods	and statistics	4
	Research methods	or data collective - primary data meaning – secondary Data meaning -	
	importance of data	a - types of data - characteristics of Quantitative data - characteristics of	
	gualitative data - n	nethods of data Collection - merit & limitation of data - interview method -	
	questionnaire - Pre	e testing the questionnaire - a specimen questionnaire - data analysis - Data	
	interpret - measure	ement & scaling – technique, - techniques of forecasting – linear – non linear	
	estimations - time	series and forecasting – clustering – factor – discriminate data analysis –	
	spatial analysis		
7	Parametric tests - t	ests of significance for attributes - tests of Significance concerning means for	3
	large samnles - test	t of significance For small samples - analysis of variance one way. Analysis of	
	variance Two wave	t of significance for small samples - analysis of variance one way. Analysis of	
8	Non narametric te	st - advantage of non- narametric test - disadvantages Of non- narametric	2
0	tests - chi - square	a test - sign test - wilcovon's signed Rank test - waldwolfowitz runs test	5
	krushallwallis tost	- friedman Test - mannwhitenv test	
0	Applications with 5	real Grati SDSS Minitah SVSTAT STATISTICA	2
9		λίει, στεί, στος, iviinitas, στοτάτ, στάτιστικά	2

		GANPAT UNIVERSITY			
	FACULTY OF ENGINEERING & TECHNOLOGY				
Progra	amme	B.Tech			
Subje	ct Name	Water Resource Management			
Subje	ct code	20\$110			
Learni	ing Outcome:				
•	Various componen	its of hydrologic cycle that affect the movement of water in the earth			
•	Various Stream flor	w measurements technique			
•	The concepts of me	ovement of ground water beneath the earth			
•	The basic requirem	ients of irrigation and various irrigation techniques, requirements of the crops			
•	Distribution system	ns for canal irrigation and the basics of design of unlined and lined irrigation cana	ls		
	design	• • • • •			
•	Basic components	of river Training works.			
•	Apply math, scienc	e, and technology in the field of water resource Engineering.			
Syllab	us - Theory		T		
Unit	Content		Hrs		
1	Introduction: Elem	entary hydrology, hydrological cycle, application of hydrological cycleypes of	4		
	water resources, co	inservation of water, water shade.			
2	Precipitation: Typ	es of precipitation, factor affecting precipitation, types of rain gauge (recording	4		
	and non-recording)	, measurement.	-		
3	Infiltration: Introd	uction, factor affecting infiltration and it's measurement.	3		
4	Runoff: Runoff proc	cess, factors affecting runoff, methods of computation.	3		
5	Watersheds: Introc	luction, Watersheds, Characteristics of watersheds, watershed development	4		
	program and its ob	jective, soil and water conservation technique.			
6	Hydraulic structure	e of storage: types of dams, gravity dam earthen dam, weir, barrage, cross	4		
	drainage work, wat	er conveying system.			
7	Irrigation: Definitio	n, necessity, methods of irrigation, benefits of irrigation	4		
8	Floods: Definition,	, Causes of floods, damages, methods of flood control, flood forecasting and	4		
	warning.				
	FIELD VISIT:	n course content are suggested			
Defer					
Refere					
1	Hydrology and Wat	er Resources Engineering by S. K. Garg			
2	Irrigation and wate	r power engineering by Dr. B. C. Punamiya			
3	Engineering Hydrol	ogy - K. Subramanya			
4	Hydrology by H. M.	Raghunath			
5	Hydrology and Wat	er Resources Engineering by James & Lee			

GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	amme	B.Tech	
Subject Name Economics for Engineers			
Subject code 20S111			
Learni	ng Outcome:		
•	Describe the role o	of economics in the decision making process and perform calculations in regard	to
	interest formulas		
•	Estimate the Prese	ent, annual and future worth comparisons for cash flows	
•	Calculate the rate	of return, depreciation charges and income taxes	
•	Enumerate differe	nt cost entities in estimation and costing	
•	Explain the import	ance of finance functions, financial ratios and solve related problems	
•	Explain the elemer	its of budgeting and bench marking	
Syllab	us - Theory		
Unit	Content		Hrs
1	Basic Principles an	d Methodology of Economics. Demand/Supply – elasticity –Government	8
	Policies and Applic	cation. Theory of the Firm and Market Structure. Basic Macroeconomic	
	Concepts (including	g GDP/GNP/NI/Disposable Income) and Identifies for both closed and open	
	economies. Aggreg	ate demand and Supply (IS/LM). Price Indices (WPI/CPI), Interest rates,	
	Direct and Indirect		
2	Public Sector Econ	iomics –Welfare, Externalities, Labour Market. Components of Monetary	/
	and Financial Syst	tem, Central Bank –Monetary Aggregates; Commercial Banks & their	
	functions; Capital a	and Debt Markets. Monetary and Fiscal Policy Tools & their impact on the	
-	economy – Inflatio	n and Phillips Curve.	-
3	Elements of Busine	ss/Managerial Economics and forms of organizations. Cost & Cost Control –	8
	Techniques, Types	of Costs, Budgets, Break even Analysis, Capital Budgeting, Application of	
	Linear Programmin	g. Investment Analysis – NPV, ROI, IRR, Payback Period, Depreciation, Time	
	Value of money. E	Susiness Forecasting – Elementary techniques. Statements – Cash flow,	
	Financial. Case Stud	Jy Method.	7
4	Structure of produc	retive activity losues of inclusion - Sectors States (Regions, Croups of people	/
	(NA/E) Urbanizati	an Employment Informal Organized Unorganized Public Private	
	(IVI/F), UIDanizati	icy Debates in Monetany, Fiscal Social External sectors	
Roford		icy Debates in Mohetary, Fiscal, Social, External Sectors.	
Kelere			
1	Mankiw Gregory N	., "Principles of Economics", Thompson Asia.	
2	V. Mote, S. Paul, G.	Gupta, "Managerial Economics", Tata McGraw Hill.	
3	Misra, S.K. and Pur	i, "Indian Economy", Himalaya.	
4	Pareek Saroj, "Tex	tbook of Business Economics", Sunrise Publishers.	

	GANPAT UNIVERSITY				
	FACULTY OF ENGINEERING & TECHNOLOGY				
Programme B.Tech					
Subje	ct Name	Supply Chain Management-Planning			
Subje	ct code	20\$112			
Learning Outcome:					
•	Develop an unders	standing of the importance of logistics in the formulation of the business strategy a	nd the		
	conduct of supply	chain operations.			
•	Develop an in-dept	th understanding of logistics operating areas and their interrelationship.			
•	Strengthen integra	tive management analytical and problem-solving skills.			
Syllab	us - Theory				
Unit	Content		Hrs		
1	Introduction to Sup	oply Chain- Supply chain systems, stages and decision phases and Process view of	6		
	supply chain; supp	ly chain flows; examples of supply chains; competitive supply chain strategies;			
	drivers for supply c	hain performance.			
2	Designing the Supp	ly Chain Network- Distribution Networking – role, design; Supply Chain Network	6		
	– SCN- Role, factors; framework for design decisions.				
3	Facility Location an	d Network Design- Models for facility location and capacity	6		
	location; Impact of	uncertainty on SCN – discounted cash flow analysis; evaluating network design			
	decisions using dec	ision trees; analytical problems.			
4	Planning and Mana	ging Inventories in a Supply Chain- Inventory concepts, trade	6		
	Promotions; mana	ging multi-echelon cycle inventory, safety inventory determination; impact of			
	supply uncertainty	aggregation and replenishment.			
5	Sourcing, Transpor	tation and Pricing Products-Role of sourcing, supplier- scoring and assessment,	6		
	selection and conti	racts, design collaboration; role of transportation, models of transportation and			
	designing transport	tation network; revenue management.			
Text B	Sooks:				
1	Sunil Chopra and Po	eter M, "Supply Chain Management", Pearson publishing, 2001.			
2	Blanchard, D., "Sup	ply chain management", Best practices. New Jersey: John Wiley & Sons. 2007.			
Refere	ence Books				
1	Hugos, M., "Essent	ials of supply chain management", New Jersey: John Wiley & Sons, 2006,2nd editio	n.		
2	Kim, B., "Supply cha	ain management in the mastering business in As".			

	GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY		
Progra	amme	B.Tech		
Subject Name Introduction to Computer Technology		Introduction to Computer Technology		
Subje	ct code	20S113		
Learni	ing Outcome:			
•	Understand compu	uter history and how it can relate to the future of computing and society.		
•	 Understand the impacts of computers and artificial intelligence on individuals and on society; proactively 			
	decide how they w	vould like computers and artificial intelligence to be incorporated into their future.		
•	Understand how co	omputers, computer networks, and the Internet work so as to better utilize them i	n their	
	lives and to the im	provement of society.		
	Efficiently learn an	duse Microsoft Office applications		
Syllab				
Unit	Content		Hrs	
1	Introduction to Co	mputer Systems:	4	
-	The Computer de	fined, Early history, Basic parts and structure of a computer, Categorizing		
	Computers, Inform	nation Processing life cycle, Essential computer hardware, Essential computer		
	software.			
2	Introduction to Office Automation: Open Office, Text Document, Spread sheet, Presentation,		4	
	Drawing, Database Formula			
3	Interacting with th	e Computer, Computer Organization:	4	
	Keyboard, Mouse,	Inputting data in other ways: Pen-based systems, data scanning devices, game		
	controllers, voice re	ecognition devices, microphone, visual input devices, Video and sound, Monitors,		
	Printers, Plotters, D	Data projectors, Sound systems.		
4	Storage Device Concepts:		4	
	Number systems, A	SCII, BCD, CPU, Buses, Mother Board, Chip sets, Microprocessors.		
	Storage media, Fio	ppy drive, Hard disks, Logical structure of hard disks and file systems, Optical D. P. CD RW, DVD ROM Recordable DVD. Combo Drive, Rive Ray Magnetic Tape		
	Software Custom-	made Software Shrunk-wrapped software Types of operating system Computer		
	processing technique	ues Functions of Operating Systems Management of processor memory virtual		
	storage. devices. ar	nd information. JCL. Examples of Operating Systems.		
5	Computer Network	king	3	
6	Introduction to Op	erating System	3	
7	Types of Software:		3	
	Application softwar	re, System Software, Computer programming tools		
8	Introduction to lan	guages:	2	
	High-level language	e, Assembly language, Low-level language		
9	Internet		3	
Text B	looks:			
1	C: The Complete Re	eference, Herbert Schildt, McGrawHill		
Refere	ence Books			
1	Peter Norton: Intro	duction to Computers, 7th Edition, Tata McGraw Hill		

GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	amme	B.Tech	
Subje	ct Name	Entrepreneurship Development	
Subje	ct code	20S114	
Learni	ing Outcome:		
•	Have the ability to	discern distinct entrepreneurial traits	
•	Know the paramet	ers to assess opportunities and constraints for new business ideas	
•	Understand the sy	stematic process to select and screen a business idea	
•	Design strategies f	or successful implementation of ideas	
•	Write a business p	lan	
Syllab	us - Theory		Line
	Content		Hrs
T	Entrepreneursnip	ments to be an entropropeur, entropropeur and entropropeur, entropropeur and	5
	manager growth	of entrepreneurship in India women entrepreneurship rural and urban	
	entrepreneurship.	or entrepreneurship in maid, women entrepreneurship, rurar and urban	
2	Entrepreneurial M	otivation	5
	Motivating factors	, motivation theories-Maslow's Need Hierarchy Theory, McClelland's Acquired	
	Need Theory, gove	ernment's policy actions towards entrepreneurial motivation, entrepreneurship	
	development progr	rammes.	
3	Types of Enterprise	es and Ownership Structure:	5
	Small scale, mediu	um scale and large scale enterprises, role of small enterprises in economic	
	development; pro	prietorship, partnership, Ltd. companies and co-operatives: their formation,	
	capital structure ar	nd source of finance.	
4	Projects:	election of evolution evolutions and formulation constant of evolution	5
	ovaluation mothor	de ef projects; project report: contents and formulation, concept of project	
	method	as of project evaluation. Internal rate of return method and net present value	
5	Management of En	iterprises	5
5	Objectives and f	unctions of management, scientific management, general and strategic	5
	management; intr	oduction to human resource management: planning, job analysis, training,	
	recruitment and se	election, etc.; marketing and organizational dimension of enterprises; enterprise	
	financing : raising a	and managing capital, shares, debentures and bonds, cost of capital; break- even	
	analysis, balance sh	neet its analysis.	
6	Institutional Suppo	ort and Policies:	5
	Institutional suppo	rt towards the development of entrepreneurship in India, technical consultancy	
Tout D	organizations, gove	ernment policies for small scale enterprises	
Text			
1	Ram Chandran, 'En	trepreneurial Development', Tata McGraw Hill, New Delhi	
2	Saini, J. S., 'Entrepr	eneurial Development Programmes and Practices', Deep & Deep Publications (P),	Ltd
3	кhanka, S.S. 'Entrep	preneurial Development", S Chand & Company Ltd. New Delhi	
Kefere			
1	Peter Norton: Intro	dBadhai, B 'Entrepreneurship for Engineers', Dhanpat Rai & co. (p) Ltd.	
2	Desai, Vasant, ' Pro	ject Management and Entrepreneurship', Himalayan Publishing House, Mumbai, 2	2002.
3	Gupta and Srinivas	an, 'Entrepreneurial Development', S Chand & Sons, New Delhi.	

GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	mme	B.Tech	
Subject Name		Career Development Program-I	
Subjec	t code	2OS116	
Learni	ng Outcome:		
•	Apply sound princi	ples of teaching, learning, advocacy and reflection	
•	Exhibit effective te	chniques which promote learning for all students regardless of race, culture, gend	er,
	age, creed or abilit	У	
•	Display professiona	alism and ownership of professional growth and learning	
•	Extend collaboration	on to students, colleagues and the community	
Syllab	us - Theory		-
Unit	Content		Hrs
1	Basics of Communi	cation:	6
	Definition, Prin	nciples, Process, Functions, and Forms of communication (Formal – Informal,	
	Verbal – Non-ve	erbal, Electronic and Visual)	
	Barriers to Com	imunication with Remedies	
	All eight Parts o	of Speech, Tenses, Active and passive Voice	
2	Introduction to Fur	nctional Grammar in English	6
	Verb Forms, Colloc	ations, Homophones and Homonyms, Conjunctions, Abbreviations & Acronyms	
	and Introduction to	English Sounds	
3	Receptive Language	e Skills [Listening and Reading Skills]	6
	A. Listening Skill:		
	Definition and p	process of listening skill	
	Pre-requisites c	of effective listening	
	Modes of listen	ling	
	Causes of poor	listening	
	Tips for effectiv	i listening	
	I raits of a good	llistening	
	B. Reading Skill:		
	Definition and t	cypes of reading	
	Durposos of Bo	enective reading comprehension	
4	Purposes of Rea	duing	6
4	Productive Languag	ge skills (written communication)	0
	Significance of write	ten communication for professionals	
	Fundamentals of g	and writing	
	Guidelines for effec	tive writing - Selection of words	
	Improving Technica	l vocabulary	
	Framing sentences	and composing paragraphs	
	Precise writing		
	Letter Writing		
	Structure and lavou	it of a business letter / emails	
	Types of business	letters – inquiry, reply, complaint and adjustment letter. salespromotion. Job	
	application with res	sume	
	Error free writing.	mproving word power and fast writing	
	Advertisement / PI	R Writing	
	Advertisement draf	ts with special reference to engineering & technology	
	Writing PR drafts fo	pr events & activities	

5	Learning Basic Etiquettes	6
	What is Etiquette	
	Why Etiquettes are needed?	
	Dressing and Grooming Etiquette	
	Wishing, Meeting and Parting Etiquette	
	Standing Tall Etiquette	
	Interview Ethics Etiquette	
	Being Polite Etiquette	
	General Office Manners Etiquette	
	Telephone Etiquette / Mobile Etiquette	
Refere	ence Books	
1	Business Communication by V. K. Jain and OmprakashBiyani (S. Chand & Company)	
2	A Communicative Grammar of English by Geoffery Leech and Fan Svartvik (Pearson Longman)	
3	Oxford English for Careers: Technology 1: Student's Book by Eric Glendinning	
4	English for Specific Purposes (Resource Books for Teachers) by Keith Harding	
5	Word Power Made Easy by Norman Lewis	
6	English Grammar by Wren & Martin	
7	Nautical Miles by IMS	

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	amme	B.Tech	
Subjee	Subject Name Career Development Program-II		
Subje	Subject code 20S117		
Learni	ng Outcome:		
On suc	ccessful completion o	of the course the students will be able to:	
•	Develop and Prese	ent Professional Presentations	
•	Develop discussior	n skills and further participate in discussions	
•	Develop Reasoning	g Skills in Discussion	
•	Plan primary CV w	ith a view to develop it further in upcoming semesters	
•	Asses himself/hers	self in various career related assessments	
Syllab	us - Theory		т
Unit	Content		Hrs
1	Learning Presentat	tion Skills	4
	What is Presentation	on, Key elements of Presentation, Presentation Delivery, Rules of a professional	
	Presentation, Posit	ive and Nervous making Factors, Tips for dynamic Deliveries, Dealing with	
	questions in Preser	ntation	
2	Mock Presentation		4
	Delivering Presenta	ltion	
3	Learning Group Dis	scussion Skills	6
	What is Group Disc	cussion?, Personality Qualities in Group Discussion, Need of Group Discussion in	
	Industry / Organiza	ition, Organization's Group Discussion Perspective	
	Aspects of Group D	Discussion, Types of Topics, Managing Score Cards in Group, Discussion,	
	Techniques to Imita	ate Group Discussion, Do's and Don'ts in Group Discussion, Positive and Negative	
	factors in Group Di	scussion	
4	Profile Developme	nt 	4
	Learning CV Buildin	ig Skills, Planning Profile Building Factors, Execution Strategies for Profile	
-			
5	Learning through P	Professional Role Plays Learning Situation Reactions Picture & Word Percentions	4
6	Personality Assess	ments	1
0	Career Advancem	ent Assessment Attention Disorder Assessment Comm Skill Assessment	7
	Employability Skills	Assessment	
7	Mock Group Discu	ssions	4
-	Group Discussion o	n Factual & Abstract Topics	
Refere	ence Books		1
1	Business Communic	cation by V. K. Jain and OmprakashBiyani (S. Chand & Company)	
2	A Communicative G	Grammar of English by Geoffery Leech and Ean Svartvik (Pearson Longman)	
2	Oxford English for C	Careers: Technology 1: Student's Book by Eric Glandinning	
3		מוכנוס. וכנוווטוטצא ב. סנטנפוונס שטטג אא בווג טוכווטווווווצ	

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	amme	B.Tech	
Subject Name		Professional Skill Building-I	
Subje	ct code	2OS118	
Learni	ng Outcome:		
•	Face One- to-One	nterview	
•	Present oneself [Pe	ersonality Development]	
•	Solve various ques	tions based on quantitative ability, logical reasoning and data interpretation.	
•	Learn skills involve	d in developing enriching interpersonal relationships	
•	Handle emotions o	f largely self and others	
•	Understand the ne	cessity and importance of working together as a team	
•	Deal with stress		
•	Able to create a fir	st-hand bio-data for self	
Syllab	us - Theory		
Unit	Content		Hrs
1	Higher Quantitative	e Abilities	6
	Problems on Time	and Work	
	Problems on Allega	ation and Mixtures	
	Problems on Partn	ership	
	Problems on Set Tr	heory	
2	Non Verbal Logical	Reasoning	4
	Coding – Decoding		
2	BIOOD Relations		4
5		15	4
	Tables Dio Charts		
	Pie Charts Bar Chart		
	Line Chart		
1			6
-	Learning Time Mar	nagement Skills	0
	Learning Team Buil		
	Learning Stress Ma	nagement Skills	
5	Personality Develo	nment	4
5	Profile [CV] Buildin	g[Workshop]	
6	Soft Skills	8[1.0.1.0.10P]	2
	Learning Interview	Facing Skills	_
7	Mock Interviews		4
Text b	ooks		
1	Verbal and Non-Ve	rbal reasoning by R S Agrawal	
Refere	ence Books		
1	Quantitative abilitie	s by Arun Sharma	
2	The Magic of Thinki	ng Big by David Schwartz	

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	amme	B.Tech	
Subject Name		Professional Skill Building-II	
Subje	ct code	2OS119	
Learni	ng Outcome:		
On suc	ccessful completion of	of the course the students will be able to:	
•	Solve various ques	tions based on quantitative ability and logical reasoning.	
•	Handle oneself in a	a given professional setting though effective communication skills	
•	Face HR and Behav	viour Interviews	
•	Write a profession	al CV and further be able to plan the profile development for remaining course	
•	Ability to follow an	d execute the code of conduct in a professional environment	
•	Stand tall in corpor	rate with professional etiquettes	
Syllab	us - Theory		
Unit	Content		Hrs
1	Quantitative Abiliti	es	8
	Problems on Perm	utations and Combinations, Problems on Probability	
	Problems on Proba	bility	
	Problems on Stock	s and Shares	
	Problems on Calen	dar	
	Problem Square Ro	oot and Cube Root	
	Problem Area and	Volume	
2	Logical Reasoning		6
	Logical Deductive F	Reasoning	
	Statement and Arg	ument	
3	Communication Sk	ills	6
	Learning Communi	cation through Role Plays	
	Learning Persuasio	n and Convincing skills	
4	Life Skills [Corporat	e Skills]	4
	Campus to Compar	ny .	
5	Personality Develo	pment	4
	Learning HR Skills	- NATE OF STREET	
6	Profile [CV] Buildin	g Workshop	2
6	Learning Profession	hal Etiquettes	2
Refere	ence Books		ł
1	Quantitative abilitie	es by Arun Sharma	
2	Verbal and Non-Ve	rbal reasoning by R S Agrawal	

GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	Programme B.Tech		
Subjec	t Name	Career Development Program	
Subjec	Subject code 20S121		
Learni	ng Outcome:		
•	Apply sound princi	ples of teaching, learning, advocacy and reflection	
•	 Exhibit effective techniques which promote learning for all students regardless of race, culture, gender, 		der,
	age, creed or abilit	У	
•	Display professiona	alism and ownership of professional growth and learning	
•	Extend collaboration	on to students, colleagues and the community	
Syllab	us - Theory		
Unit	Content		Hrs
1	Basics of Communi	cation:	4
	Definition, Prin	ciples, Process, Functions, and Forms of communication (Formal – Informal,	
	Verbal – Non-v	erbal, Electronic and Visual)	
	Barriers to Com	imunication with Remedies	
	All eight Parts o	of Speech, Tenses, Active and passive Voice	
2	Introduction to Fur	nctional Grammar in English	4
	Verb Forms, Colloc	ations, Homophones and Homonyms, Conjunctions, Appreviations & Acronyms	
2	and Introduction to English Sounds		4
3	Listoning Skill Boog	e Skills [Listening and Reading Skills]	4
Δ	Productive Language Skills (Written Communication)		Δ
-	Basic Writing Skills	Letter Writing Advertisement / PR Writing	-
5	Learning Dresentation Skills		4
5	What is Presentation	on. Key elements of Presentation. Presentation Delivery. Rules of a professional	•
	Presentation. Positi	ive and Nervous making Factors. Tips for dynamic Deliveries. Dealing with	
	questions in Presen	itation	
	Mock Presentation		
	Delivering Presenta	tion	
6	Learning Group Dis	scussion Skills	6
	What is Group Disc	ussion?, Personality Qualities in Group Discussion, Need of Group Discussion in	
	Industry / Organiza	tion, Organization's Group Discussion Perspective	
	Aspects of Group D	Discussion, Types of Topics, Managing Score Cards in Group, Discussion,	
	Techniques to Imit	ate Group Discussion, Do's and Don'ts in Group Discussion, Positive and	
	Negative factors in	Group Discussion	
	Mock Group Discu	ssions	
	Group Discussion o	on Factual & Abstract Topics	-
7	Profile Developme	nt Schule Die State Die	4
	Learning CV Build	ing Skills, Planning Profile Building Factors, Execution Strategies for Profile	
		ments	
		Assessment, Attention Disorder Assessment, Comm. Skill Assessment,	
	Employability Skills	A3563511611	

Refere	Reference Books		
1	Business Communication by V. K. Jain and OmprakashBiyani (S. Chand & Company)		
2	A Communicative Grammar of English by Geoffery Leech and Fan Svartvik (Pearson Longman)		
3	Oxford English for Careers: Technology 1: Student's Book by Eric Glendinning		
4	English for Specific Purposes (Resource Books for Teachers) by Keith Harding		
5	Word Power Made Easy by Norman Lewis		
6	English Grammar by Wren & Martin		
7	Nautical Miles by IMS		

		GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY			
Prog	ramme	B.Tech			
Subje	ect Name	Organizational Behaviour			
Subje	ect code	20S131			
Learr	ning Outcome:				
At th	e end of the course,	Students will be able to-			
•	Comprehend and	l apply principles of organizational dynamics relating to systems, culture, struct	ture		
	and change proce	esses			
•	Develop critical a	nalytical skills that will help them diagnose situations pertaining to human beh	avior		
	and generate effe	ective solutions for the same			
•	Comprehend per	formance behavior at individual and group levels			
•	Develop the abili	ty to lead and motivate others to succeed			
Sylla	bus – Theory				
, Unit	Content		Hr		
			s		
1	Introduction to	Organizational Behaviour: Concept of Organizational Behaviour(OB),	03		
	History, Nature a	and scope of OB, Key elements in OB, Interdisciplinary contribution to OB,			
	Managerial Roles	5			
2	2 Individual Behaviour, Values & Personality: Concept of Individual Differences, Values 03				
	commonly studied across culture, Fundamentals and Determinants of Personality, Big Five				
2	Dimensions, Pers	conality Theory, Personality Traits	05		
3	Learning & Perce	eption: Fundamentals of Learning, Learning Theories-Classical Conditioning	05		
	Definition of Per	cention Percentual Process Common Percentual Errors			
4	Motivation: Basi	ic concept of Motivation. Theories of Motivation-Maslow. Herzberg's Two	04		
•	Factor Theory, El	RG, McClelland, Equity and Vroom's Expectancy Theory	•		
5	Leadership: Intr	oduction. Leadership. Theories-Trait. Theories. Behavioural. Theories. and	06		
-	Situation Theorie	25			
6	Group Dynamics	: Defining and classification groups, Stages of group development, Group	02		
	Properties-Roles,	, Norms, Status, Size and Cohesiveness, Group Decision making			
7	Managing Chang	ge in Organization: Definition, Forces of Change, Causes for Resistance to	04		
	Change, Overcor	ming Resistance to change, Force Fields Analysis and Kotter's Model for			
0	Change	Automa Magning Strong Culture Va Wash Culture Creating & sustaining	02		
8	Culture Socializa	Luiture: Meaning, Strong Culture VS. Weak Culture, Creating & sustaining	03		
Refe	rences		1		
1	Robbins, S.P.Judge	e, T.A. &, Sanghi, Seema. Organizational Behavior, Person			
2	Pareek, U, Unders	tanding Organizational Behavior, Oxford University Press			
3	Luthans, F. Organi	zational Behaviour, Tata McGraw Hill			

		GANPAT UNIVERSITY		
		FACULTY OF ENGINEERING & TECHNOLOGY		
Prog	ramme	B.Tech		
Subje	ect Name	Research Ethics		
Subje	ect code	2OS132		
Learr	ning Outcome:			
At th	e end of the course,	Students will be able to-		
•	To be able to des	cribe and apply theories and methods in ethics and research ethics		
•	To acquire an ove	erview of important issues in research ethics, like responsibility for research, et	hical	
	vetting, and scien	tific misconduct		
•	To acquire skills o	of presenting arguments and results of ethical inquiries		
Sylla	bus – Theory		-	
Unit	Content		Hr	
			S	
1	Introduction to research ethics.	ethics and research ethics. Overview of theories and methods in ethics and	06	
2	How to handle	data. The meaning of secrecy and confidentiality	05	
3	Good research principles for g and procedures	h practice, research integrity and scientific misconduct . Criteria and good research practice. Meaning of scientific misconduct and fraud. Cases s for establishing misconduct, preventions and sanctions	07	
4	Responsibility f	or the results of research. Responsibility for research and the results and fresearch. The limits of responsibility. Risks and the precautionary principle.	06	
5	Ethical vetting of principles guidir	of research. Different kinds of vetting of research, procedures and ethical ng research on human beings and animals.	06	
Refe	rences			
1	1 Collste, G, Introduction to Ethics			
2	De Peol & Royakk	ers 2011, Ethics, Technology and Engineering, 8.3 The Engineers Responsibi	lity for	
	Safety (pp 223-238)			
3	Good research pra	ctice, Vetenskapsrådets rapportserie, 3:2011		

		GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY			
Progra	mme	B.Tech			
Subjec	t Name	Resume Writing			
Subjec	t code	2OS133			
Learnii	ng Outcome:				
At the	end of the course,	Students will be able to-			
•	Explain the conce	pt of Resume, Report and Proposal writing. plain Concept			
•	Describe the type	es and elements of Resume, Report and Proposal writing			
•	Draft suitable and	d effective Resume, Report and Proposal writing.			
Svllabu	ıs - Theory				
Unit	Content		Hr		
1	Resume Writing	: Concept of Résumé Writing, Types of Resumes, The Chronological Resume,	09		
	The Functional Resume, The Combination Resume, Curricula Vitae, Making the Choice, Bio-				
	data: Difference, Preparing to Write Your Resume, Elements of Résumé, Practice session				
2	Presentation of Resume: , Presentation, Professional Objective and Education Section, Take 09				
	an Objective Loo	an Objective Look at Your Experience, Skills Section, Honors and Awards, Activities and			
	Interests, Bolster	ring Your Resume, Polishing Your Resume, Cover Letters, Resumes in the			
	Digital Age, Pract	tice session			
3	Writing Reports	and Proposals: Writing Reports, Concept of Report Writing	06		
	Elements of Rep	ort, Types of Reports, Dos and Don'ts of Report Writing, Formats for Report,			
	Examples		0.0		
4	Proposal Writin	ng: Concept of Proposal Writing, Characteristics of Proposal, Types of	06		
	Proposais, Elem	ents of Proposal Writing, Purpose of a Research Proposal, Examples			
Refere	nces				
1	Kulkarni, R. A. (20	001). A Handbook of Communication Skills in English. Kolhapur:			
2	nttp://www.how	/towritetnereport.com/report-writing-basics/			
3	https://www.fun https://ors.ou.e	ndstorngos.org/how-to-write-a-report/introduction-to-reportwriting/ du/report/type.html			
l	,,				

GANPAT UNIVERSITY **FACULTY OF ENGINEERING & TECHNOLOGY** Programme B.Tech Subject Name Pattern Recognition and Image Analysis Subject code 20S134

Learning Outcome:

At the end of the course, Students will be able to-

- Aunderstand Basics of Image formation and transformation using sampling and quantization •
- Understand different types signal processing techniques used for image sharpening and smoothing •
- Perform and apply compression and coding techniques used for image data
- Understand the nature and inherent difficulties of the pattern recognition problems •
- Understand concepts, trade-offs, and appropriateness of the different feature types and classification • techniques such as Bayesian, maximum-likelihood, etc
- Select a suitable classification process, features, and proper classifier to address a desired pattern • recognition problem.

Syllabu	s - Theory	
Unit	Content	Hrs
1	Introduction to Image Processing: Image formation, image geometry perspective and other transformation, stereo imaging elements of visual perception. Digital Image-sampling and quantization serial & parallel Image processing.	05
2	Image Restoration: Image Restoration-Constrained and unconstrained restoration Wiener filter, motion blur remover, geometric and radiometric correction Image data compression-Huffman and other codes transform compression, predictive compression two tone Image compression, block coding, run length coding, and contour coding.	05
3	Segmentation Techniques: Segmentation Techniques-thresh holding approaches, region growing, relaxation, line and edge detection approaches, edge linking, supervised and unsupervised classification techniques, remotely sensed image analysis and applications, Shape Analysis – Gestalt principles, shape number, moment Fourier and other shape descriptors, Skelton detection, Hough trans-form, topological and texture analysis, shape matching.	05
4	Pattern Recognition: Basics of pattern recognition, Design principles of pattern recognition system, Learning and adaptation, Pattern recognition approaches, Mathematical foundations – Linear algebra, Probability Theory, Expectation, mean and covariance, Normal distribution, multivariate normal densities, Chi squared test.	05
5	Statistical Patten Recognition Bayesian Decision Theory, Classifiers, Normal density and discriminant functions, Parameter estimation methods: Maximum-Likelihood estimation, Bayesian Parameter estimation, Dimension reduction methods – Principal Component Analysis (PCA), Fisher Linear discriminant analysis, Expectation-maximization (EM), Hidden Markov Models (HMM),Gaussian mixture models.	05
Referer	nces	
1	Digital Image Processing – Ganzalez and Wood, Addison Wesley,	
2	Pattern Recognition and Machine Learning – C. M. Bishop, Springer,	
3	Digital Picture Processing – Rosenfeld and Kak, vol.I & vol.II, Academic,	

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Program	me	B.Tech	
Subject I	Name	Personality Development	
Subject o	code	2OS136	
Learning	Outcome:		
At the er	nd of the course, Stud	lents will be able to-	
1 •	Nurture a deep sense	and understanding of personality development, soft skills and interpersonal	
r	elationship for overa	ll self-development	
• F	Realize the role of tec	hnology in personality development and the importance of time and stress	
r	nanagement		
• [Develop and exhibit a	balanced attitude in life and learn to handle failures	
Syllabus	- Theory		
Unit	Content		Hr
			S
1	Personality Devel	lopment: Define personality, determinants of personality development,	03
	types of personali	ties, personality traits, developing effective habits, emotional intelligence,	
	manners and etiqu	Jettes	_
2	Attitude: Define a	ttitude, factors affecting attitudes, positive attitude & advantages, negative	03
	attitude & disadva	ntages, ways to develop positive attitude	
3	Habits: Habit: guid	ling principles, identifying good and bad habits, breaking bad habits, forming	03
	nabits of success, §	goal setting, addiction	
4	Digital Etiquettes:	Use of ICT in day-to-day management effective use of social media, e-mail	03
	etiquette netiquet	te, useful electronic gadgets and mobile applications	00
5	Communication S	Skills: Self-confidence effective reading/writing/listening/communication	04
5	skills, Overcoming	stage fear, art of professional presentation, role of body language, use of	0.
	audio & visuals in	presentations, Negotiation Skills	
6	Time and Stress	Management: Time as a Resource, Identify Important Time Wasters,	03
	Techniques for be	tter Time Management, Introduction to Stress, Causes of Stress, Results of	
	Stress, Managing S	itress	_
7	Facing Failures: Fa	actors affecting failures, Learning from failures, overcoming failures, power	03
	of faith, practicing	faith	
0	Internersonal Re	lationship: Defining internersonal relationship. Human percentions	02
0		onle types of interpersonal relationships factors affecting interpersonal	05
	relationship, tips to	o improve interpersonal relations, conflict resolution	
9	Art of Networkin	Ig: Grooming, Dining etiquettes, Cross-cultural etiquettes, Cross culture	05
_	intelligence		
Reference	ces		
1	Dorch Patricia, Wh	at Are Soft Skills? New York: Execu Dress Publishers	
2	Kamin Maxine, Sof	ft Skills Revolution: A Guide for Connecting with Compassion for Trainers, Team	is, and
	Leaders, Washingt	on, DC: Pfeiffer & Company	
3	Klaus Peggy, Jane I	Rohman & Molly Hamaker, The Hard Truth about Soft Skills. London: Harper Co	llins

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Program	me	B.Tech	
Subject I	Name	Numerical Methods	
Subject o	code	2OS137	
Learning	Outcome:		
At the er	nd of the course, Stud	lents will be able to-	
• l	Understand the basic	concepts and techniques of solving algebraic and transcendental equations.	
• 4	Appreciate the numer	rical techniques of interpolation and error approximations in various intervals in	n real
	ife situations.		
• /	Apply the numerical t	echniques of differentiation and integration for engineering problems.	
• l	Jnderstand the know	ledge of various techniques and methods for solving first and second order ord	linary
	differential equations		
• 9	Solve the partial and o	ordinary differential equations with initial and boundary conditions by using ce	rtain
t	echniques with engir	neering applications.	
Svllabus	- Theory	5 11	
Unit	Content		Hr
1	Solution Of Equat	tions And Eigenvalue Problems: Solution of algebraic and transcendental	06
	equations, Fixed p	oint iteration method, Newton Raphson method, Solution of linear system	
	of equations, Gaus	ss elimination method, Pivoting, Gauss Jordan method, Iterative methods of	
	Gauss Jacobi and G	Gauss Seidel, Eigen values of a matrix by Power method and Jacobi's method	
	for symmetric mat	rices.	
2	Interpolation And	d Approximation: Interpolation with unequal intervals, Lagrange's	06
	interpolation, New	vton's divided difference interpolation, Cubic Splines, Difference operators	
	formulae	erpolation with equal intervals, Newton's forward and backward difference	
3	Numerical Differe	ntiation And Integration: Approximation of derivatives using interpolation	06
5	polynomials. Num	erical integration using Trapezoidal. Simpson's 1/3 rule. Romberg's Method.	00
	Two point and thr	ree point Gaussian quadrature formulae, Evaluation of double integrals by	
	Trapezoidal and Si	mpson's 1/3 rules.	
4	Initial Value Prob	lems For Ordinary Differential Equations: Single step methods, Taylor's	06
	series method, Eul	ler's method, Modified Euler's method, Fourth order Runge - Kutta method	
	for solving first ord	der equations, Multi step methods - Milne's and Adams, Bash forth predictor	
	corrector methods	s for solving first order equations.	00
5	Einite difference m	roblems in Ordinary and Partial Differential Equations:	06
	Finite difference f	techniques for the solution of two dimensional Lanlace's and Poisson's	
	equations on recta	angular domain. One dimensional heat flow equation by explicit and implicit	
	(Crank Nicholson)	methods, One dimensional wave equation by explicit method.	
Reference	ces		•
1	Burden, R.L and Fa	ires, J.D, "Numerical Analysis", 9th Edition, Cengage Learning, 2016	
2	Grewal, B.S., and G	Grewal, J.S., "Numerical Methods in Engineering and Science", Khanna	
	Publishers, 10th Ec	dition, New Delhi, 2015	
3	Brian Bradie, "A Fr	iendly Introduction to Numerical Analysis", Pearson Education, Asia, New	
	Delhi, 2007		

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Programm	ne	B.Tech	
Subject Na	Subject Name Introduction to Literature		
Subject co	ode	2OS138	
Learning (Outcome:		
At the end	d of the course, Stude	ents will be able to-	
● Ar	nalyse the importanc	e of literature and art as they relate to their socio-cultural context and to their	
"u	universal" appeal.		
● Pe	erform close textural	analysis as a means of identifying and deciphering the aesthetic, political, and c	ultural
in	nportance of literatur	re as a means of culture production.	
• De	emonstrate analytic a	and oral skills related to interpretation of different artistic and literary genres.	
Syllabus -	Theory		
, Unit	Content		Hr
1	Nature of Literat	ture: Literature as a Humanistic Experience Definitions: (i) Humanities:	06
	concern with cult	ure, values, ideologies (ii) Literature: Concepts of imitation, expression,	
	intuition & imagina	ation	
2	Themes of Literatu	ure: Major Themes of Literature: Nature, Science, Selfhood, Love, Rebellion	06
3	The Language of	Literature: Modes of literary and non-literary expression. The concepts of	07
	Figurative languag	e, imagery, symbolism, style.	
4	Forms of Literatur	e: Prose Narratives(short stories & novels). Poetry, Drama and Essays	11
	1. On Love by Fra	ancis Bacon(Essay)	
	2. The Origin of S	Species by Charles Darwin (Essay)	
	3. The Monkey's	Paw by W W Jacobs (Short Story)	
	4. Night of the So	corpion, Nissim Ezekiel (Poem)	
	5. An Introductio	n. Kamala Das (Poem)	
	6. Little Red-Cap,	, by Carol Ann Duffy(Poem)	
	7. Ulyssesm Alfre	ed Lord Tennyson(Poem)	
	8. If you forget m	ne, Pablo Neruda(Poem)	
	9. If, Rudyard Kip	ling(Poem)	
	10. Bury the Dead	, Irwin Shaw(Play)	
	11. The Old Man a	ind the Sea, Ernest Hamingway(Novel)	
	12. A Critical Histo	bry of English Literature, David Daiches, Allied Publishers	
Reference	es .		
1	David Murdoch(ed	I.). The Siren's Song: An Anthology of British and American Verse, Orient Longm	an
2	Bury the Dead, Irw	vin Shaw(Play)	
3	The Old Man and t	he Sea, Ernest Hamingway(Novel)	

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Program	me	B.Tech	
Subject I	Name	Introduction to Econometrics	
Subject of	code	2OS139	
Learning	Outcome:		
At the er	nd of the course, Stud	lents will be able to-	
•	nterpret the various	statistical tools and techniques for econometric model building and testing	
• /	Apply econometric as	pects in select cases of economic decision making	
• [Evaluate empirical res	search and develop econometric reporting	
Svllabus	– Theory		
Unit	Content		Hr
1	Basic Econometri	c Concepts: Meaning and methodology of Econometrics. Understanding	03
_	mathematical mo	dels and econometric models, Revision of statistical concepts – normal	
	distribution – smal	Il and large sample tests, F-test	
2	Data sources, Data	a base and Data Structure: cross sectional data time, series data, pooled	03
	data, panel data		
3	The simple Regre	ssion Model: Regression Analysis, regression and correlation, two variable	03
	regression model,	the problem of estimation, Classical Linear Regression model – CLRM,	
	assumptions unde	erlying Ordinary Least Square (OLS) – standard errors – properties of least	
	squares estimation	n – The Guess-Markov Theorem	
4	Multiple Regressio	on Analysis: The multivariate regression analysis, The problem of estimation,	03
	interpretation of r \mathbf{P}^2 and a dimeter d \mathbf{P}^2	multiple regression model, OLS estimator, Maximum Likelyhood Estimator,	
	R and adjusted R	the problem of interence	02
Э	Functional forms a	ind interpretations	03
6	Important Proble	ms in Econometric Model Building and Testing: Violations of classical	05
	assumpations, Na	ture of multicollinearity, estimation in the presence of multicollinearity,	
	consequences of r	multicollinearity, remedial measures, Rule of Thumb procedures, Nature of	
	hetroscedasticity,	estimation in the presence of hetroscedasticity, consequences of	
	hetroscedasticity,	Detection - informal and formal methods, remedial measures Nature of	
	autocorrelation, O	DLS in the presence of autocorrelation, Detecting autocorrelation – Durbin	
	Watson Test and B	Breusch Godfrey Test (BG)	
7	Econometric Repo	brting: Evaluating the findings of empirical research – sign of coefficient of P^2	03
	independent varia	idles, interpretation of p-value and R and F statistic probability value – a	
8	Applications and (Cases: testing of hypothesis prediction and forecasting husiness policy and	07
0	planning, cases – c	consumption function, demand function and production function	07
Reference	ces		
1	Gujarati N Damoda	ar & Dawn C Porter, Basic Econometrics, McGrew Hill International	
2	Dougherty Christo	pher, Introduction of Econometrics, Oxford University Press	
3	Baltagi H Badai, Ec	onometries – Springer International	
4	Rao P and R.L. Mill	er, Applied Econometrics Prentice Hall of India LTD, New Delhi	
5	Klein L. R. , An Intr	oduction to Econometrics, Prentice-Hall of India Ltd.	
6	Goldberger A. S.,To	opics in Regression Analysis, Macmillam, New York	
7	Dilip M. Nachane.	Econometrics: Theoretical Foundations and Empirical Perspectives Oxford Uni	versitv
	Press India.		,
8	Levin L Richard and	d Rubin S Davide Statistics for Management, Prentice Hall, Pearson Brown	

GANPAT UNIVERSITY

		FACULTY OF ENGINEERING & TECHNOLOGY		
Program	nme	M.Tech		
Subject	Name	Engineering Law		
Subject	code	2OS140		
Learnin	g Outcome:			
At the e	end of the course, Stu	dents will be able to-		
•	Gain experience in te	eam leadership and develop leadership skills.		
•	Understand the impo	ortance of legal accountability in management or practice of engineering.		
•	Understand how to i	mplement necessary legal procedures and processes while delivering a compli	ant	
	proposal.			
Svllabu	s - Theory			
Unit	Content		Hrs	
1	Financial Issues:	Understanding Financial Statements, Understanding Financial Ratios and	05	
	Capital Markets, I	How Time and Interest Affect Money, Present Worth Analysis, Rate of		
	Return Analysis, Br	reakeven and Replacement Analysis; Depreciation and Taxes		
2	Introduction: Sou	rces of law regulating engineers including the, legislative, judicial and	04	
	regulatory systems	5		
3	Legal and Adminis	trative System: The legal system and legislative, judicial and administrative	05	
	systems, criminal and civil law, etc.			
4	CONTract Introduction: principles of contract formation, Contract parties, contract forms and 08			
	purposes, effect o	of illegality, performance and breach, intentional torts and principles of		
_		e and Strict Liability, insurance and Bonds		
5	Engineering Ethics		06	
6	Case Study		02	
Referen	ices			
1	Suresh T. Viswanat	than: The Indian Cyber Laws, Bharat Law House, New Delhi-88		
2	BL Wadehra: Pater	nts, Trademarks, Designs and Geological Indications.Universal Law		
	Publishing - LexisN	exis.		
3	P. Narayan: Intelle	ctual Property Law, Eastern Law House, New Delhi		
4	Executive program	me study material Company Law, Module II, by ICSI (The Institute of		
	Companies Secreta	aries of India) (Only relevant sections i.e., Study 1, 4 and		
	36).https://www.io	csi.edu/media/webmodules/publications/Company%20Law.pdf		
5	Handbook on e-Go	overnance Project Lifecycle, Department of Electronics & Information	1	
	https://www.moits	Government of Of	india,	
	5Day Course\/1 2	y.gov.in/writereauuata/mes/eGovernance_Project_Lifecycle_Participant_Hand	10006-	
6	Companies Act 20	13 Key highlights and analysis by PWC.		
	https://www.pwc.	in/assets/pdfs/publications/2013/companies-act-2013-kev-highlights-		
	andanalysis.pdf	, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	amme	B.Tech	
Subje	ct Name	Introduction to Robotics	
Subje	ct code	20S141	
Learn	ing Outcome:		
After s	successful completion	n of the course, student will be able to	
•	Understand the co	ncept of robotic and its applications in engineering.	
•	Carryout the coord	linate transformation with respect to robotic systems.	
•	Formulate the mat	hematical relations for forward and inverse kinematic analysis and trajectory gene	eration
	of robotic manipul	ator.	
•	Determine forces a	at end effector and select the actuator and sensor for a robot in a specific job task.	•
Syllab	us - Theory		
Unit	Content		Hrs
1	Robot technology		4
	Fundamentals of Ro	obots: Introduction, fundamentals of robot technology, classification,	
	applications, Syster	ns overview of a robot, basic components, control system and components.	
2	Robot motion anal	ysis and control	6
	Robot arm kinemat	cics, forward & inverse kinematics solutions, Trajectory design,	
	Introduction to rob	ot arm dynamics, introduction to mobile robots.	
3	Actuators and sens	sors in Robot	4
	AC/DC motors, step	oper motors and servo motor, Internal sensors, Position, Velocity, Acceleration,	
	Proximity sensors,	Touch and Slip sensors, Force and Torque sensors, External sensors, contact and	
	non-contact type li	ke Vision, ranging, laser, acoustic, tactile etc. sensor selection and control.	_
4	Types of End Effect	tors and Design	4
	End effectors, Class	sification, Force analysis and Gripper design.	_
5	Robot Programmin	g issues, optimization position definitions and interpolation language command,	6
	data object comma	ind, motion commands, gripper command, tool commands, sensors command,	
	other command, W	riting programs for different tasks.	
6	Industry 4.0: Techn	ologies involved, Implementation and Potential	6
	Non-Industrial Rol	bots: Technologies involved with Domestic Robots, Humanoids, Nature	
	Exploration	n Robot and other futuristic design.	
Refere	ences		
1	Richard D. Klafter,	Thomas A Chmielewski and Michael Negin, Robotics Engineering: An integrated	
	approach, Prentice	Hall	
2	Mittal and Nagrath	, Robotics & Control , Tata McGraw-Hill Publishing Company Ltd., New Delhi	
3	John Craig , Introdu	ction to Robotics, mechanics and control, Pearson Education, New Delhi	
4	M.P. Groover, Mitc	hell Weiss, Roger N. Nagel & Nicholas Godfrey, Industrial Robotics. Tata	
	McGraw Hill Educat	tion Pvt. Ltd	
5	Ashitava Ghoshal, F	Robotics Fundamental Concepts & Analysis, Oxford University Press.	
6	Robotics: Control, S	Sensing Vision and Intelligence: K.S. Fu, R.C. Gonzalez, C.S.g Lee, McGraw Hill	
		GANPAT UNIVERSITY	
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		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	amme	B.Tech	
Subje	ct Name	Industrial Safety & Maintenance Engineering	
Subje	ct code	2OS142	
Learn	ing Outcome:		
Upon	completion of this co	ourse, students will acquire knowledge about	
•	Understand the me	ethods for prevention of accident and protective method for industry.	
•	Understand the inc	dustrial laws, regulations and source models.	
•	Maintenance plan	ning for equipment and industry.	
•	Apply the methods	s of prevention policies and monitoring.	
Syllab	us - Theory		1
Unit	Content		Hrs
1	Introduction: Safet Public Perceptions,	y Programs, Engineering Ethics, Accident and Loss Statistics, Acceptable Risk, Nature of the Accident Process, Inherent Safety, Seven Significant Disasters	4
2	Accident preventio	ons, protective equipment and the Acts:	6
	Personal protective	e equipment, Survey the plant for locations and hazards, Part of body to be	
	protected, Educatio	on and training in safety, Prevention causes and cost of accident, Housekeeping,	
	First aid, Fire figh	ting equipment, Accident reporting, Investigations, Industrial psychology in	
	accident prevention	n, Safety trials.	
3	Safety Acts:		6
	Features of Facto	ory Act, Introduction of Explosive Act, Boiler Act, ESI Act, Workman's	
	compensation Act,	, Industrial hygiene, Occupational safety, Diseases prevention, Ergonomics,	
	Occupational disea	ises, stress, fatigue, health, safety and the physical environment, Engineering	
	methods of contr	olling chemical hazards, safety and the physical environment, Control of	
	Industrial noise and	a protection against it, code and regulations for worker safety and health.	4
4	Principles and prac	maintenance planning:	4
	activity - Importa	nce and benefits of sound Maintenance systems – Reliability and machine	
	availability Fouin	ment life cycle. Measures for Maintenance Performance: Equipment's	
	breakdowns. Mea	n Time Between Failures. Mean Time To Renair. Factors of availability	
	Maintenance organ	nization. Maintenance economics.	
5	Maintenance polic	ies and preventive maintenance:	6
	Maintenance cate	gories – Comparative merits of each category – Preventive maintenance,	
	Maintenance scheo	dules: Repair cycle, Principles and methods of lubrication, Fault Tree Analysis,	
	Total Productive M	aintenance: Methodology and Implementation,	
6	Condition Monitor	ing:	4
	Condition Monitori	ing: Cost comparison with and without Condition Monitoring, On load testing	
	and off load. Meth	nods and instruments for Condition Monitoring, Temperature sensitive tapes,	
	Pistol thermometer	rs, wear-debris analysis, noise vibration and harshness analysis of machines	
Text E	Books		
1	Srivastava, S.K., "In	dustrial Maintenance Management", S. Chand and Co.	
2	Bhattacharya, S.N.,	"Installation, Servicing and Maintenance", S. Chand and Co.	
3	Willie Hammer, "O	ccupational Safety Management and Engineering", Prentice Hall	
Refer	ence Books		
1	Garg, M.R., "Indust	rial Maintenance", S. Chand and Co.	
2	Davies, "Handbook	of Condition Monitoring", Chapman and Hall	
2	Ray Asfahl C "Ind	ustrial Safety and Health Management", 5th Edition, Prentice Hall	

	GANPAT UNIVERSITY			
	FACULTY OF ENGINEERING & TECHNOLOGY			
Progra	amme	B.Tech		
Subject Name ENERGY AND ENVIRONMENT		ENERGY AND ENVIRONMENT		
Subjec	ct code	2OS143		
Learni	ng Outcome:			
On suc	ccessful completion of	of the course, the students will be:		
•	Summarize the bas	sic concepts of energy, its distribution and general Scenario.		
•	Explain different ei	nergy storage systems, energy management, audit and economic analysis.		
•	Summarize the env	vironment eco system and its need for awareness.		
•	Identify the various	s types of environment pollution and their effects.		
•	Discuss the social is	ssues of the environment with associated acts.		
Syllab	us - Theory			
Unit	Content		Hrs	
1	Basic Introduction	to Energy: Energy and power, forms of energy, primary energy sources, energy	6	
	flows, world energy	<pre>/ production and consumption,</pre>		
	Key energy trends	in India: Demand, Electricity, Access to modern energy, Energy production and		
	trade,			
	Factors affecting In	dia's energy development: Economy and demographics Policy and institutional		
	framework, Energy	prices and affordability, Social and environmental aspects, Investment.		
2	Fundamentals of e	environment - Water cycle - Oxygen cycle - Carbon cycle -Nitrogen cycle -	8	
	Phosphorous cycle	- Bio-diversity - Environmental aspects of energy utilization - Public health		
	issues related to en	vironmental pollution.		
	Environmental effe	ects of energy extraction: Air-Water-Noise-Soil-Radioactive Pollution due to		
	energy use: Classifi	ication pollutants, sources of emission and quality standards - characteristics -		
	Factors influencing	pollutants - Analysis of pollutants.		
3	Environmental Poll	ution: Definition, Cause, effects and control measures of - Air pollution, Water	8	
	pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution and Nuclear hazards,			
	Solid waste Management, Disaster management Role of an individual in prevention of pollution,			
	Pollution case studi	ies.		
4	Social Issues and	the Environment: Climate change, global warming, acid rain, ozone layer	8	
	depletion. Environ	ment Protection Act, Air (Prevention and Control of Pollution) Act, Water		
	(Prevention and co	ntrol of Pollution) Act, Wildlife Protection Act, Forest Conservation Act, Issues		
	involved in enforce	ment of environmental legislation.		
TEXT E	BOOKS			
1	Textbook for Enviro	onmental Studies For Undergraduate Courses of all Branches of Higher Education	by	
	University grant co	mmission and Bharathi Vidyapeeth Institute of environment education and Resea	rch	
	,Pune			
2	De, B. K., Energy Ma	anagement audit & Conservation, 2nd Edition, Vrinda Publication, 2010.		
3	Energy and the Cha	Ilenge of Sustainability, World energy assessment, UNDP		
	New York, 2000			
REFER	ENCE BOOKS:			
1	Turner, W. C., Doty 2009.	, S. and Truner, W. C., Energy Management Hand book, 7th edition, Fairmont Pre	SS,	
2	Murphy, W. R., Ene	rgy Management, Elsevier, 2007		
3	3 Smith, C. B., Energy Management Principles, Pergamum, 2007			
4	Environment pollut	ion control Engineering by C S rao, New Age Inytermnational, 2006, reprint 2015,	2nd	
	edition			
5	Environmental stud	lies, by Benny Joseph, Tata McGraw Hill, 2008, 2nd edition.		

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	amme	B.Tech	
Subje	ct Name	Thermal Management of Electronic Systems	
Subje	ct code	2OS144	
Learni	ng Outcome:		
Course	e Outcomes(CO):		
At the	end of the course, s	tudents will able to-	
1. app	raise the importance	e of thermal management of electronic systems,	
2. dist	inguish the various h	eat transfer modes,	
3. sele	ect various cooling m	ethods for electronic systems,	
4. Solv	e thermal managem	ent related problems using simulation tools.	
Syllab	us - Theory		
Unit	Content		Hrs
1	Introduction		3
	Enclosures and the	ermal issues in 10s and electronic systems, PCB cooling and importance of	
	thermal manageme	ent of electronics, temperature effects on different failure modes.	
2	Heat transfer mod	es	6
	Principles of conse	ervation of energy, first law of thermodynamics, cooling load calculation of	
	electronic devices.	Heat transfer modes - basics of conductive heat transfer, convection basics;	
	forced convection,	radiation at normal ambient, combined modes, extended surfaces, contact	
	resistance and ther	mal interface materials, thermal	
	resistance networks, numerical methods.		
3	Cooling methods a	nd techniques	9
	Conduction cooling	g, cooling by heat sinks, design aspects of heat sinks, convection cooling,	
	blowers, fans, ventilation of systems, selection of fan, liquid immersion cooling, flow-through		
	cooling, cold wall cooling, cold plates, jet impingement cooling, synthetic jet cooling,		
	thermoelectric/Pel	tier and solid state coolers, cooling using phase change, micro/mini channel	
	cooling, cooling usi	ng heat pipes, liquid cooled high power modules. Vapour compression systems.	
	Refrigerated cabine	ets. Conductive flexible links.	
4	Layout design and	selection of cooling technique	5
	PCB layout design:	Placement of various electronics components to evenly distribute the heat and	
	minimum resistanc	ce from component to heat sink. Ranges of cooling rates of different cooling	
	methods, selection	criteria. Basics of design of heat exchanger. Experimental techniques used in	
	for thermal measur	rements, Reliability issues:	
	importancel bathtu	ib curve. Jedec standards.	_
5	Usage of software	tools and applications	7
	Introduction to sol	It ware tools for thermal management of electronic systems, applications and	
	case studies relate	d to effective thermal management of electronic systems (including cooling of	
	ICS, microprocesso	rs and power electronics, laptop thermal management, heat sink design, space	
	applications)		
Refere	ence Books		
1	Younes Shabany, H	eat Transfer: Thermal Management of Electronics, CRC Press	
2	Ravi Kandasamy an	d Arun S. Mujumdar. Thermal Management of Electronic Components, Lambert	
	Academic Publishin	lg	
3	Dave S. Steinberg, G	Cooling Techniques for Electronic Equipment. Wiley	
4	Incropera, P P and	Dewitt, D P. Fundamentals of Heat and Mass Transfer, Wiley Eastern	
5	Holman J P. Heat Ti	ransfer, McGraw Hill	

		GANPAT UNIVERSITY			
FACULTY OF ENGINEERING & TECHNOLOGY					
Progra	amme	B.Tech			
Subject Name Machine Learning					
Subje	ct code	2OS145			
Learni	ng Outcome:				
Course	e Outcomes:				
At the	end of the course, st	tudents will be able to -			
1. com	nprehend statistical n	nethods as basis of machine learning domain			
2. lear	n variety of learning	algorithms for appropriate applications			
3. ider	ntify various machine	e learning techniques to solve problems			
Doma	ins				
Syllab	us - Theory		T		
Unit	Content		Hrs		
1	Probability and Sta	atistics: Empirical Probability, Theoretical Probability, Joint Probability, Bayes'	4		
	Theorem, Descriptiv	ve Statistics, Measure of Center, Measure of Variability, Measure of Position.	-		
2	Regression Technic	ques: Basic concepts and applications of Regression, Simple Linear Regression	7		
	Gradient Descent a	Gradient Descent and Normal Equation Method, Non-Linear Regression, Linear Regression with			
	Regularization, Hyper-parameters tuning, Loss Functions, Evaluation Measures for Regression				
	Techniques.				
3	Classification Tech	iniques: Basics of supervised learning, Naive Bayes Classification, Fitting	9		
	Multivariate Bernoulli Distribution, Gaussian Distribution and Multinomial Distribution, K-Nearest				
	Neighbours, Decision trees, Random Forest Support Vector Machines: Hard Margin and Soft				
4	Artificial Noural	d Kernel Trick, Evaluation Measures for Classification Techniques.			
4	Artificial Neural N	Networks: Biological Neurons and Biological Neural Networks, Perceptron	5		
-	Clustering, Activation	of unsupervised learning. Hierarchical Agglemerative Clustering, k means			
5	Algorithm Solf Org	of unsupervised learning, Hierarchical Aggiomerative Clustering, K-means	5		
Defer	Algorithm, Self-Org	anizing maps.			
Refere					
1	Tom Mitchell, Mach	nine Learning, TMH			
2	C. Bishop, Pattern F	Recognition and Machine Learning, Springer			
3	R. O. Duda, P. E. Ha	rt and D. G. Stork, Pattern Classification and Scene Analysis, Wiley			
4	KishanMehrotra, C	hilukuri Mohan and Sanjay Ranka, Elements of Artificial Neural Networks, Penran	n		
	International				
5	Rajjan Shinghal, Pat	ttern Recognition, Techniques and Applications, OXFORD			
6	Athem Ealpaydin, Ir	ntroduction to Machine Learning, PHI			

GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	imme	B. Iech	
Subjec	Subject Name Introduction to Fire and Safety Engineering		
Subjec		203146	
Learni	ng Outcome:		
Cours			
At the	e end of the course,	student will be able to-	
1	. explain the fire pr	rocess and its chemistry	
2	. choose fire protee	ction system	
3	. analyse fire accide	ent	
4	. select fire insuran	nce and policies	1
Unit	Content		Hrs
1	Introduction		2
	Fire in history, fire I	losses, fire causes, interested parties in fire safely, fire protection standards and	
	practice.		
2	Ine Fire Process	viewels firstetuckedness finals encouldering match first search stick of ducts	3
	Introduction, fire the	riangle, fire tetranedron, fuels, smouldering, metal fires, compustion of dusts,	
	height/length flam	at, ignition processes, thermal recuback, the stages, structure of hames, hame	
3	Chemistry of Fire		4
5	Matter around us	Avogadro's hypothesis work versus energy energy in chemical reactions	
	oxidation and redu	iction, chemical chain reaction in fire, flame chemistry, reducing atmosphere.	
	estimating lower f	lammability limit (LFL), flash point, fire point, ignition point, ignition energy,	
	different type of co	mbustion processes (Rapid, Spontaneous, Explosive combustions).	
4	Heat Transfer in F	ires	2
	Fundamentals of heat, heat transfer and heat flux, modes of heat transfer, temperatures versus		
	heat in fire, severity and growth of fire, spontaneous heating and spontaneous combustion, heat		
	release rate.		
5	Fire Detectors and	d Alarms	3
	Introduction, basic	is of detectors and alarms, detector types based on effects, heat detectors,	
	smoke detectors, of	optical flame detectors, gas-sensing detectors, application-specific detectors,	
	selection of detectors, alarm systems, fire alarm systems and control panel, principle of operation,		
6	Fire Extinguishers		5
Ũ	Firefighting fundam	nentals, first-aid firefighting extinguishers, common features of extinguishers	5
	types of extinguis	hers, classification of fires (Class A, B, C, D, E and F) and suitability of	
	extinguishers, ratir	ng of extinguishers, hazard categorization and placement of extinguishers	
	Practical demonstra	ation and Revision.	
7	Fixed Fire Protection	on Systems	3
	Introduction, wate	er-based fixed fire protection systems, automatic sprinklers. Foam systems,	
	water spray system	ns, water mist systems, carbon dioxide flooding systems, clean agents, draining	
	out fire water.	· · · ·	
8	Crigins of conoral	and Fire insurance	4
	identification and	analysis risk assessment and control principles of insurance fire insurance	
	policy, covers availa	able, insurance value, features of emergency plans, line of action.	
9	Investigating Fire I	ncidents	4
-	Background to fire	e investigation, practice of investigation, arson, evidence, witnesses, bum	
	patterns, sketches.	Photographs and diagrams, material or sequence evidence, records or paper	
	evidence, interpret	ing evidence and report writing	
	• •		

Refere	Reference Books		
1	Das, Akhilkumar, Principles of Fire safety engg, PHI publication.		
2	Handbook of Fire and Explosion Protection Engineering inciples, William Andrew an imprint of Elsevier.		
3	Fire Hazards in Industry, Norman Thomson, Butterworth-Heinemann is an imprint of Elsevier.		

4	Robert Burke. Fire Protection Systems and Response, CRC Press
5	John A. Purkiss. Fire Safety Engineering Design of Structures. Butterworth-Heinemann is an imprint of
	Elsevier.
6	R.Craig Schroll, Industrial Fire Protection Handbook, CRC Press.

		GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY			
Progra	amme	B.Tech			
Subje	ct Name	Composite Materials			
Subje	ct code	2OS149			
Learni	ing Outcome:				
On su	ccessful completion of	of the course, the students will be:			
•	Explain characteris	tics and applications of composite materials			
•	Illustrate manufact	turing process for development of composite materials			
•	Assess the mechan	nical behaviour of composite materials			
•	Apply failure theor	ies for strength assessment of the laminate			
Syllab	us - Theory				
Unit	Content		Hrs		
1	Definition of compo	osite materials, classification and characteristics, Advantages and applications,	8		
	Functional requirements of reinforcement and matrix, Effect of reinforcement: size, shape,				
	distribution, volum	e fraction.			
2	Manufacturing of n	netal matrix composites: Casting – Solid state diffusion technique, Cladding –	8		
	Hot isostatic pressi	ng, Properties and applications, Manufacturing of ceramic matrix composites:			
	Liquid metal infiltra	ation – liquid phase sintering, Manufacturing of Carbon – Carbon composites:			
	Knitting, Braiding, V	Neaving.			
3	Preparation layup,	Curing, Properties and application of various type of fibers, Properties and	6		
	applications of whis	skers, Particle reinforcements			
4	Laminate failure cri	iteria: strength ratio, maximum stress criteria, maximum strain criteria,	8		
	interfacing failure criteria, Stress concentration.				
Refere	ences				
1	Callister Jr, W.D. an	d Rethwisch, D.G., Fundamentals of materials science and engineering: an integ	rated		
	approach, John Wiley & Sons.				
2	Lubin, G. Composite	e Materials, Springer publication.			
3	Gay D., Composite	Materials Design and Application, Taylor & Francis			

		GANPAT UNIVERSITY		
		FACULTY OF ENGINEERING & TECHNOLOGY		
Progra	amme	B.Tech		
Subjec	Subject Name Arduino for Engineers			
Subjec	ct code	2OS150		
Learni	ng Outcome:			
On suc	ccessful completion o	of the course, the students will be:		
•	Demonstrate progr	ramming proficiency using Embedded C for Arduino		
•	Interface Analog ar	nd Digital peripherals with Arduino		
•	Establish serial con	nmunication using I2C and SPI protocol		
•	Demonstrate profi	ciency in developing Arduino based applications		
Syllab	us - Theory			
Unit	Content		Hrs	
1	The Arduino family,	, Arduino Uno board, Atmega328p Microcontroller, Programming using Arduino	5	
	IDE			
2	2 LED, push-button switch, Hex keypad, Seven segment display, LCD interfacing 5		5	
3	Basics of serial com	munication, Asynchronous serial communication and data framing, Serial port	6	
	programming, I2C a	and SPI communications, LCD interfacing using I2C		
4	Interfacing of DC ar	nd stepper motor, PWM for motor speed control, Relays	6	
5	DAC interfacing, Ult	trasonic distance sensor, Humidity and temperature sensor, Infrared sensor,	8	
	Light sensor(LDR), Wifi and Bluetooth module			
Refere	ences			
1	Simon Monk, Progr	amming Arduino Getting Started with Sketches, McGraw Hill		
2	Jeremy Blum, Explo	oring Arduino: Tools and Techniques for Engineering Wizardy, Wiley Publishers		
3	Michael Margolis, A	Arduino Cookbook: Receipes to Begin, Expand and Enhance Your Projects, Oreilly	Media	

		GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY			
Program	nme	M.Tech			
Subject	Name	Basics of Quality Management			
Subject	code	2OS161			
Learning	g Outcome:				
At the e	nd of the course,	Students will be able to-			
	Define the quality	management,			
	lustrate the use o	f statistical quality control,			
🗆 Ju	ustify the use of v	arious quality improvement concepts, tools with examples,			
	Discuss the quality	tools, techniques and philosophies through case studies.			
Syllabus	s - Theory		T		
Unit	Content		Hr		
1	Introduction to	o Quality Management: Introduction to quality, need of quality, evolution of	10		
	quality, definit	tions of quality, dimension of product and service quality, facet of quality,			
	inspection, quality control, quality assurance, cost of quality, contribution of quality gurus,				
2	quality statement,				
2		ses measures of central tendency measures of dispersion normal distribution	D		
	control charts	for variable and attribute process canability pareto principle introduction to			
	acceptance sampling				
3	Quality Improv	vement Tools & Techniques: 5S, Quality Circle, PDCA Cycle, Kaizen, Seven New	8		
	Management Tools, Quality Function deployment (QFD), Failure Mode Effect & Critical				
	Analysis (FMEC	CA), Poka-yoke, Benchmarking, and others			
4	Associated Co	ncepts with Quality Management: Introduction to ISO, Importance of ISO	6		
	certification, IS	SO 9001 Quality Management System, ISO 14001 Environment Management			
	System, OHSA	S 18001, Integrated management System (IMS), Lean, Six Sigma and Lean Six			
	Sigma Method	lology, TPM, Business Excellence Model like Deming Award, Malcolm Baldrige			
	National Qual	ity Award, Ramakrishna Bajaj National Quality Award, Introduction to ZED			
Poforon	iviaturity Asses	ssment Moclel for Indian MSMEs.			
Referen					
1	Charantimath I	P.M., Total Quality Management, Pearson Education India.			
2	Besterfield, D. H., Besterfield-Michna, C., Besterfield, G. H., Besterfield-Sacre, M., Urdhwareshe, H., &				
	² Urdhwareshe, R. Total Quality Management, Pearson Education India.				
3	Mitra, A. Funda	amentals of Quality Control and Improvement. John Wiley & Sons			
4	Montgomery, I	D. C. Introduction to Statistical Quality Control. John Wiley & Sons.			

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Program	nme	M.Tech	
Subject	Name	Financial Management	
Subject	code	2OS162	
Learning	g Outcome:		
At the e	nd of the course, Stu	dents will be able to-	
•	To the ways to mana	ge the finance with time.	
•	Analyze the current f	inance market.	
•	Make the financial d	ecision by their own.	
Syllabus	- Theory		
Unit	Content		Hrs
1	Basic of financial	management: Introduction to financial management, Role of finance	6
	functions, Time val	lue of money, Basic of risk and return.	
2	Financial markets a	and instruments: The financial system, Introduction to financial markets	6
	and instruments, S	ources and cost of capital.	
3	Major Financial D	ecisions: Investment decisions, funding decision, distribution of profit	6
	decision, introduct	ion to working capital management, managing risk.	
4	Lising Spreadshee	ts in Finance: Introduction to financial functions in spreadsheets	6
•	spreadsheet applic	ration exercise.	Ū
Referen	ces		
1	Dr. Eugene F. Brigh	aam, Financial Management.	
2	Raymond M. Brook	ks, Financial Management – Core Concepts.	
3	Charles E. Menifiel	d, The Basic of Public Budgeting and Financial Management.	
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		GANPAT UNIVERSITY		
		FACULTY OF ENGINEERING & TECHNOLOGY		
Prograi	mme	M.Tech		
Subject	t Name	Finite Element Method		
Subject	t code	2OS163		
Learnin	ng Outcome:			
At the e	end of the course, st	udents will be able to —		
	1. demonstrate finit	e element formulation		
	2. analyze one dime	nsional engineering problems		
	3. solve two dimens	ional problems of engineering using finite element		
	4. utilize computer p	program for solving engineering problems.		
Syllabu	s - Theory			
Unit	Content		Hrs	
1	Finite Element F	ormulation: Evolution of Finite Element Method (FEM), Applications,	10	
	Equilibrium cond	itions, Constitutive law, Principle of discretization, Element field matrix		
	formulation.			
2	Application to Eng	gineering Disciplines: Computation of element properties using generalized	12	
	Coordinators and	natural coordinators for one dimensional & two-dimensional element,		
3	Computer Appli	cations: Pre-processing Solution Post-processing Development of	8	
5	computer program	m Use of FFA packages.	0	
Referen	nces			
1	Logan, D. L. A First	Course in Finite Element Method, Cengage Learning.		
2	Desai, Y. M., Eldho	, T. I. & Shah, A. H. Finite Element Method with Applications in Engineering, Pe	arson.	
3	Cook, R. D., Malku	s, D. S., Plesha, M. E., Witt, R. J. Concept and Application of Finite Element A	nalysis,	
	Wiley.			
4	Reddy, J. N. An Int	roduction to the Finite Element Method, McGraw Hill Education.		
5	Zienkiewicz, 0. C. 8	& Taylor, R. L. Finite Element Method: Its Basic and Fundamentals, Elsevier Indi	а.	

GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY	
Program	nme	M.Tech	
Subject	Name	Disaster Management	
Subject	code	2OS164	
Learnin	g Outcome:		
At the e	nd of the course, Stud	dents will be able to-	
•	Identify and assess ris	sk of a disaster and associated damages	
•	Plan and execute acti	vities for disaster management Appreciate	
•	Appraise policies and	role of various stakeholders in disaster management.	
Syllabus	- Theory		
Unit	Content		Hrs
1	Introduction to Disa Climate Change, DM	aster Management (DM): Importance & Significance, Types of Disasters,	6
2	Risk Assessment: Ri Assessment, Damag	isk, Vulnerability, Types of Risk, Risk identification, Emerging Risks, Risk ge Assessment, Risk modelling.	6
3	Disaster Managem Incident Command Early Warning and Sensing, Do's and D	ent: Phases, Cycle of Disaster Management, Institutional Framework, System, DM Plan, Community Based DM, Community health and safety, Disaster Monitoring, Disaster Communication, Role of GIS and Remote on'ts in various disasters.	6
4	Role of an Engine Constructions, Strue	eer: Challenges and solutions for DM, Disaster Safe Designs and ctural and Non Structural Mitigation of Disasters.	6
5	Disaster Managem Management Policy and Private Agencie	nent Policy & Practices: Disaster Management Act 2005, Disaster y, National Guidelines and Plans, Role of Government, Non-Government es.	6
Referen	ces		
1	Modh, S., Introduc	tion to Disaster Management, Macmillan	
2	Sinha, P.C., Disaste	er Relief: Rehabilitation and Emergency Humanitarian Assistance, SBS Publis	hers.
3	Piers B, Cannon T. Routledge.	, Davis I., & Ben W., At Risk: Natural hazards, People's Vulnerability and Dis	sasters,

FACULTY OF ENGINEERING & TECHNOLOGY Programme B.Tech Subject Name Human Descurse Management	
Programme B.Tech	
Subject Name	
Subject Name Human Resource Management	
Subject code 20S171	
Learning Outcome:	
 Describe roles and responsibilities of the HRM function 	
 Identify different systems within HRM viz. Recruitment and Selection, Performance Managemer 	t,
Compensation Management, Employee Relationship Management and recognize their strateg	ic
contribution to business and organizations;	
 Distinguish between people management role of HR and non-HR specialist in organizations 	
Syllabus - Theory	
Unit Content	Hrs
1 An Introduction to Human Resource Management; HRD and HRM; Corporate Strategy and	30
Human Resource Management; Human Resource Planning; Job Analysis, Recruitment &	
Selection; Performance Management; Compensation Management; Learning & Development;	
Employee Relationship Management; Industrial Disputes & Conflicts; Labour Legislation; HRM in	
Cross-cultural and Global Environments; Organisation Learning; Ethics and Ethical Issues in	
HRM; Skills and Competencies of a Human Resource Manager; Human Resource Management	
in Family owned businesses and Not for profit organizations; Organisational Transformation and	
HRM; Contemporary Concerns in HRM	
Reference Books	
1 Pande, Sharon and Basak, Swapnalekha (2016), <i>Human Resource Management</i> , 2 nd Ed., Pearson	
Education: New Delhi	
2 Dessler, Gary. Varkkey, Biju (2015), Human Resource Management , 13 th Ed., Pearson Education: N	w
Delhi	
3 Bohlander, George. Snell, Scott. & Vohra, Veena (2014), Human Resources Management,	
Cengage Learning: New Delhi	
4 Bernardin, John, H.(2007), Human Resource Management – An Experiential Approach, Tata McGrav	v Hill
Publishing Company Limited: New Delhi	
5 Singh B.D.(2004), Industrial Relations, Emerging Paradigms, Excel Books: New Delhi	

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	amme	B.Tech	
Subje	ct Name	Modern Indian History	
Subje	ct code	20\$172	
Learni	ng Outcome:		
At the	end of the course, st	tudents will be able to-	
•	Interpret the impa modern world.	act of renaissance, political and industrial revolution, and colonization in shap	ng the
•	Explain the state o	f polity, economy, society and culture during the company raj.	
•	Compare the diffe contribution in ind	erent perspectives of nationalism during th e British raj and explain their respendence movement.	pective
•	Explain the emerge	ence of India as an independent and sovereign country.	
Syllab	us - Theory		
Unit	Content		Hrs
1.	MODERN WORLD	HISTORY: The Renaissance period, Causes of Revolution, Revolutions-French	09
	and American, Indu	istrial revolutions, European colonisation	
2.	THE COMPANY RA	J (1757 TO 1857) : India during mid 18" centuary – state of polity, economy,	11
	society and culture	e, Regional kingdoms- Bengal, Mysore, Maratha, Awadh and Punjab, Battle of	
	changes in polity of	of Buxar, Angio-Mysore wars and Angio-Maratha wars, East India company-	
3		1857 TO 1947): Governance of India under the British crown- state of unity	15
5.	economy, society	and culture. Early nationalism- emergence of congress, swadeshi and	15
	revolutionary move	ements, Gandhidham nationalism- non cooperation movement, Dandi march	
	(salt satyagraha),	Khilafat movement, the quit india movement, Akail movements, left	
	movements, tribal	movements, Gandhism- Gandhian values which imapacted Indian History, The	
	Indian Independent	ce Act,1947.	
4.	EMERGENCE OF N	EW STATE: Negotiations for independence, Indian Constitution Integration of	
	princely states, Con	stituent Assembly Debates (CAD), Land reforms and inception of planning.	
REFER	ENCE BOOKS:		
1.	Bandhopadhyay, S.	, From Plasscy to Pattition: A History of Modern India. Delhi: Orient Blackswan.	
2.	Roy, T., An Econom	ic History of Early Modern India. London: Routledge.	
3.	Bipan, C., Nationali	sm and Colonialism in Modern India. Delhi: Orient Longman.	
4.	Sarkar, S Modern	India 1885-1947. Delhi: Macmillan.	
5.	Bandhopadh yay, S	., National Movement in India: A Reader. New Delhi: Oxford University Press.	
6.	Robett s , .I. M., & \	Westad, O. A., The history of the world. Oxford University Press, USA.	
7.	Lowe, N., Mastering	g modern world history. Macmillan International Higher Education.	

	GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY		
Progra	amme	B.Tech		
Subje	ct Name	Electrical Power Utilisation and Safety		
Subje	ing Outcomo	205173		
Learn	ar successful complex	tion of the course, student will be able to:		
Alte	 infer the import 	tance various parameters in e lectrica system		
	 suggest and ap 	ply suita ble electric heating, welding , refrigeration and air conditioning for a	Э	
	system			
	analyze and des	sign illuminati on scheme, electri ficatio n, earthing system and protection system	า	
	for an application	on		
Syllab	us - Theory			
Unit	Content		Hrs	
1.	Electric Heating an , induction heating resistance	d Welding: Advantages of electric heating, resistance heating, types of furnaces g, types of induction furnaces, dielectric heating, types of welding- arc and	08	
2.	Refrigeration and a of a refrigerator regulator, water co air conditioning sys	air conditioning: Introduction to refrigeration and air-conditioning, principles , domestic refrigerator, electrical circuit of refrigerator, need of voltage poler, air conditioner, thermo- electric refrigeration, air purification, central stems	06	
3.	Illumination Scheme: Basic terms used in illumination scheme, Electric lamps, Recommended07levels of illumination, types of lighting schemes, design of lighting schemes , factory lighting, streetlighting, F]flood lighting.			
4.	Electrical Installati systems, Wiring sy and costing for resi	on, Estimating, costing: Types of load, Load assessment, Electrical supply stems, Permissible voltage drops and conductor size calculations, Estimating idential and commercial service connections (single phase and three phase)	08	
5.	Power Factor: Effe factor, method s of	ects of power factor, causes of low power factor, disadvantages of lo w power f improving power factor, most economical power factor.	05	
6.	Electrical Safety, E influencing the ele concepts and accid shock, purpose of resistance of earth reducing earth res breakers (ELC B)	Earthing systems and protective devices: Electrical shock mechanisms, factors actric shock, body current thresholds (tolerable body current limit), thevenin's lental equivalent circuits (step and touch potentials), protection against electric earthing, IS rules for earthing of electrical installations, factors governing the electrode, methods of earthing, measurement of earth resistance, methods of sistance, fuse, miniature circuit breakers (MCB) and earth leakage circuit	11	
REFER	ENCE BOOKS:			
1.	E. Openshaw Taylo Utilisation of Electr	or , Utilisation of Electrica I Energ y, Universities Press. H. Partab, Art and Scierical Energy, Dhanpat Rai & Co.	ence of	
2.	J. B. Gupta, Utilizat	ion of Electric Power and Electric Traction, S. K. Kataria & Sons, New Delhi.		
3.	G. C. Garg , Utili zat	tio n of Electric Power and Electric Traction, Khanna Publishers , Delhi.		
4.	R. K. Rajput, Utilisa	ation of Electrical Po wer, Laxmi Publications (P) Ltd., New Delhi.		
5.	N. V. Suyra naray Age Publishers , Ne	ana, Utilisatio n of Electric Power Including Electric Drive s and Electric Tractio ew Delhi.	n, New	
6.	J. B. Gupta, A Co ur	rse in Electrical Installation Estimating and Costing , S. K. Kataria & Sons , New Dell	hi.	
7.	Dr. J. G. Jamnani , E	Element s of Electrical Desig n, Mahajan Publishing House		

	GANPAT UNIVERSITY			
	FACULTY OF ENGINEERING & TECHNOLOGY			
Progra	Programme B.Tech			
Subje	ct Name	Operating Systems		
Subje	Subject code 20S174			
Learni	earning Outcome:			
At t	he end of the course	e, students will be able to -		
	I. describe the vari	ious components of Operating Systems		
	2. analyze the diffe	rent service s provided by UNIX Operating System		
	3. design and imple	ement concurrent processes requiring synchronization.		
Syllab	us - Theory			
Unit	Content		Hrs	
1	Introduction to O	perating Systems: Operating system objectives and functions, evolution of	2	
	operating systems			
2	Process descriptio	n and control: Process states, process description, process	09	
	control, process m	anagement, Uniprocessor scheduling, multiprocessor and real-		
	time scheduling			
3	Threads and conc	urrency: Processes And Threads, Symmetric Multiprocessing, Micro kernels,	08	
	Mutual exclusion a	nd synchronization, deadlock and starvation		
4	Memory managem	ent and virtual memory: Memory management requirements,	08	
	partitioning, paging	g , segmentation, virtual memory		
5	1/0 Management a	nd filers: 10/ devices, organization of 1/0 functions, OS design issues, 1/0	3	
	buffering , disk sche	eduling, disk cache , file management , security aspects in OS		
Refere	ence Books			
1	William Stallings, O	perating Systems, PHI.		
	Silbersc hiltz , Galvi	n and Greg Gange , Operating System, Wiley India .		
	Sumitabha Das, Uni	ix Concepts and Applications, TMH Publications.		
2	Yashvant Kanetkar	, Shell Programming, BPB		
3	A.S.Tanenba um, M	Iodern Operating Systems, TMH Publications.		
4	Kernighan, the UNI	X Programming Environment, Pearson		
5	Maurice Bach, The	Unix Operating System, Prentice Hall		

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	amme	B.Tech.	
Subje	ct Name	Air Pollution Control Techniques	
Subje	ct code	2OS181	
Learni	ing Outcome:		
On su	ccessful completion o	of the course, the students will be:	
•	Evaluate fundamer	ntals of sources, effects, sampling and monitoring of air pollutants.	
•	Evaluate air quality	and specific source of air pollution.	
•	Determine approp	riate air pollution control system for the industries.	
Syllab	us - Theory		
Unit	Content		Hrs.
1	Introduction:		3
	Air pollution in Indi	ia and in the world, Sources and classification of air pollutants, Global concern	
	of air pollutants, Ef	fects of air pollutants, Emission inventory	
2	Air Quality Criteria	and Standards:	3
	Air quality criteria,	Criteria pollutants, Types of emission standards, Rules and regulations related	
	to air pollution, Var	rious forms of emission standards	
3	Air quality monitori	ing, sampling and analysis:	6
	Gaseous and particulate pollutants sampling and analysis, Analysis, Ambient air sampling, Stack		
	sampling, Online monitoring of air pollutions		
4	Control of specific p	pollutants and mobile sources:	6
	Control of volati	le organic compounds (VOCs) and odour of sources, Characteristics,	
	Measurement envi	ironmental significance and its control, Control of mobile sources: gasoline-	
	powered vehicles, I	Diesel powered vehicles, Gas turbines and jet engines, Alternatives to existing	
	mobile sources		
5	Air pollution contro	ol methods and equipments:	6
	Source correction	methods, Particulate control techniques such as gravity, Settling chambers,	
	Cyclone separator,	Filters, Wet scrubbers, Control technologies for gaseous pollutants such as	
	scrubbers, absorpti	on and adsorption, Control of specific gaseous pollutants	-
6	Industrial air polluti	ion control system:	6
	Emission and its co	ontrol from thermal power plant, Petroleum refinery, Metallurgy industries.	
	Indoor air quality: F	actors affecting, effects, Control and indoor air pollutants	
Retere	ences		
1	Bouble R.W.Fox D.I	. I urner.D.B Stern A. C. Fundamentals of Air Pollution, Academic Press.	
2	Rao C. S. Environme	ental Pollution Control Engineering, New Age International.	
3	Trivedy R. K. Goel P	P. K. An Introduction to Air Pollution, BS Publication	

FACULTY OF ENGINEERING & TECHNOLOGY Programe B. Tech. Subject Name Functional Foods and Health Supplements Theory Subject code 20S182 Learning Outcome: Image: Concept of nutraceuticals, their classification and market trends. Elucidate the role of various classes of phytochemicals as nutraceuticals and functional foods. Image: Concept of nutraceuticals in prevention of diseases. Syllabus - Theory Ymage: Concept of nutraceuticals in prevention of diseases. Hrs. Octimate the role of nutraceuticals. Pherical State the role of nutraceuticals in prevention of diseases. Hrs. Syllabus - Theory Ymage: Concept of nutraceuticals. Hrs. Octimate and health benefits, Dietary supplements, Classify nutraceuticals and their health benefits, Global sc—ario and current trends in dietary supplements and nutraceuticals. 8 Quipturs, Polyphenolics, Dietary fibres and anti-oxidants, Prebiotics and probiotics, Proteins, Vitamins, Minerals, Cereals, Vegetables as functional foods. 8 Supplements such as green tea, Lecithin, Mushroom extract, Nutraceuticals bridging the gap between food and drug. 8 A Regulatory for nutraceuticals products: 8 State such as green tea, Lecithin, Mushroom extract, Nutraceuticals in different countries, Pharmacopoeial specification for dietary supplements and nutraceuticals and their recommende da			GANPAT UNIVERSITY	
Programme B. Tech. Subject Name Functional Foods and Health Supplements Theory Subject code 20S182 Learning Outcome: After successful completion of the course, student will be able to • Understanding the concept of nutraceuticals, their classification and market trends. Elucidate the role of various classes of phytochemicals as nutraceuticals and functional foods. • Elucidate the role of nutraceuticals in prevention of diseases. • Elucidate the regulatory requirements for nutraceuticals. Syllabus - Theory Mirs. 1 Introduction: 6 Functional foods, Nutraceuticals, Dietary supplements, Classify nutraceuticals and their health benefits, Global scenario and current trends in dietary supplements and nutraceuticals 8 2 Phytochemicals as nutraceuticals: 8 0ccurrence, Chemical nature and health benefits, Phytonutrient from class of fatty acids, Organo-sulphurs, Polyphenolics, Dietary fibres and anti-oxidants, Prebiotics and probiotics, Proteins, Vitamins, Minerals, Cereals, Vegetables as functional foods 8 3 Food as a remedies: 8 Nutraceuticals in treatment for cognitive decline, Nutraceuticals remedies for common disorders such as arthritis, Bronchitis, liver disorder, Ulcers, Circulatory problems, Nutraceuticals rich supplements such as green tea, Lecithin, Mushroom extract, Nutraceuticals bridging the gap between food a			FACULTY OF ENGINEERING & TECHNOLOGY	
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daily allowance (RDA). References		Pharmacopoeial sp	ecification for dietary supplements and nutraceuticals and their recommended	
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	Refere	ences		
1 https://www.fssai.gov.in/cms/food-safety-and-standards-regulations.php	1	https://www.fssai.	gov.in/cms/food-safety-and-standards-regulations.php	
2 Dietary Supplements". FDA Office of Dietary Supplements Programs.	2	Dietary Supplemen	ts". FDA Office of Dietary Supplements Programs.	
3 Augusti, K.T. Role of Dietary Fibres and Nutraceuticals in Preventing Disease, PharmaMed Press	3	Augusti,K.T.Role of	Dietary Fibres and Nutraceuticals in Preventing Disease, PharmaMed Press	

GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progra	amme	B.Tech	
Subjec	t Name	Project Management	
Subjec	t code	2OS191	
Learni	ng Outcome:		
-	Following this cour	se, students will be able to describe a project life cycle, and can skillfully map each	ו stage
	in the cycle		-
-	Students will ident	ify the resources needed for each stage, including involved stakeholders, tools and	ł
	supplementary ma	terials	
-	Students will descr	ibe the time needed to successfully complete a project, considering factors such a	s task
	dependencies and	task lengths	
-	Students will be ab	le to provide internal stakeholders with information regarding project costs by	
	considering factors	s such as estimated cost, variances and profits	
-	Students will be ab	le to develop a project scope while considering factors such as customer requirem	ients
	and internal/extern	nal goals	
Syllab	us - Theory		-
Unit	Content		Hrs
1	Introduction to Pro	oject Management	2
	Defining "project m	nanagement"	
	Exploring opportun	ities in the project management field	
	Developing project	management skills	
	Categorising differe	difference between projects	
	Discriming the		
Z	Planning a project		2
	Identifying and deli	vering on your client's priorities	
	Managing stakehol	ders	
	Developing a projec	rt management plan	
	RACI Matrix		
	Preventing 'scope of	reep'	
	Assessing the feasil	pility of a project	
	Identifying and mar	naging risks	
3	Implementing You	r Project	4
	Entering into a cont	tract	
	Managing a project		
	Setting up a project	t database	
	Creating an effectiv	ve work schedule	
	Monitoring a project	ct	
	Conducting effectiv	re meetings	
	Managing change		
	Addressing problen	ns	
4	Project Manageme	nt Techniques	4
	Identifying organisa	ational structures	
	Estimating costs an	d budgeting	
	Using critical path p	project management tools (WBS, Gantt chart, Project Network Diagram)	
	Establishing the crit	tical path	
	Tracking project mi	lestones	
	Using the program	ne evaluation and review technique (PERT tool)	
	Using process impro	ovement tools (Fishbone, SIPOC)	
	Controlling quality		
			A
5	Linderstanding the	importance of a husiness case	4
	Identifying project	rosts	
	Calculating return of	on investment (BOI)	
	Calculating a navha	ck period	
	Calculating a payba	ick period	

	Determining net present value (NPV)	
6	The Project from Start to Finish	4
	Identifying the life cycle of a project	
	Handing over a project	
	Closing a project	
	Reviewing a project	
7	People in the Project	4
	Assembling your project team	
	Planning resources for your project team	
	Managing your project team	
	Managing conflict within your team	
	Communicating effectively	
	Providing leadership and fostering teamwork	
8	Your Career in Project Management	4
	Progressing through different project management positions	
	Breaking into official project management	
	Creating your cover letter and curriculum vita	
	Networking	
	Interviewing	
	Advancing in your career	
	The next step after project management	
Refere	ence Books	
1	Project Management Case Studies by Harold R KERZNER	
2	Project Management: The Managerial Process by Gray and Larson and Desai, McGraw Hill	
3	Textbook of Project Management by V.E.Ramamoorthy P.Gopalakrishnan	

		GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY			
Programme B.Tech					
Subje	ct Name	Renewable energy sources			
Subject code 20S192					
Learning Outcome:					
	To Understand the	Need, importance and scope of non conventional and alternate energy resources.			
	To understand role	e significance of solar energy.			
	To provide importa	ance of Wind Energy.			
	To understand the	role of ocean energy in the Energy Generation.			
	To get the utilization	on of Biogas plants and geothermal energy			
	To understand the	concept of energy Conservation.			
Syllab	us - Theory		1		
Unit	Content		Hrs		
1	SOLAR ENERGY		5		
	Solar Radiation, M	easurements of Solar Radiation, Flat Plate And Concentrating Collectors, Solar			
	Direct Thermal App	plications, Solar Thermal Power Generation, Fundamentals of Solar Photo Voltaic			
	Conversion, Solar C	ells, Solar PV Power Generation, Solar PV Applications.			
2	WIND ENERGY		5		
	Wind Energy Estimation, Types of Wind Energy Systems, Performance, Site Selection, Details of Wind				
	Turbine Generator				
3	OCEAN ENERGY		5		
	Ocean Thermal Ene	ergy Conversion (OTEC), Principle of operation, development of OTEC plants, Tidal			
	and wave energy, P	otential and conversion techniques, mini-hydel power plants	_		
4	BIO-MASS		5		
	Principles of Bio-	Conversion, Anaerobic/aerobic digestion, types of Bio-gasdigesters, gas yield,			
	combustion charac	teristics of bio-gas, utilization for cooking			
5	GEOTHERMAL ENE	RGY	5		
	Resources, types of	wells, methods of harnessing the energy, scope in India.	-		
6	ENERGY CONSERV	ATION	5		
	Principles of energy	gy conservation, the different energy conservation appliances, cooking stoves,			
- (Benefits of improved cooking stoves over the traditional cooking stoves				
Refere	ence Books				
1	Reneweble energy	resources: Tiwari and ghosal, Narosa publication.			
2	Non conventional E	nergy Sources,Khanna Publication			

GANPAT UNIVERSITY				
	FACULTY OF ENGINEERING & TECHNOLOGY			
Progra	amme	B. Iech		
Subject Name				
Subjec	ct code	20\$193		
Learni	ing Outcome:			
After s	successful completion	n of the course student will be able to:		
I. Rer	nember the fundame	entals of health and hutrition		
2. Cite	eribo significance of	Delling		
J. Des	cluse significance of fu	inditional foods		
5 Exp	lain indicators of nut	ritional status		
Syllab	us - Theory			
Unit	Content		Hrs	
1	Introduction to the	basic concepts of health and nutrition	4	
2	Nutrition		6	
2	Macronutrients: (Carbohydrates (including dietany fibers) fats and proteins • Microputrients:	0	
	Vitamins minerals	anti-ovidants gut flora		
	 Significance of ma 	acconutrients and micronutrients for ontimal health		
3	Meal Planning		10	
	 Functional foods: 	Definition of functional foods, Role of functional ingredients and food in		
	nutrition, Health at	tributes of functional foods		
	Health attributes	of nutrition: Diet and disease, Diet with respect to special population (elderly,		
	pediatric and pregn	nant women),		
	 Indicators for mai 	intenance of nutritional status: Nutrition Balance Indicator, Satiety Index, Fullness		
	factor, Glycemic inc	dex and insulin index		
4	Food Labelling (Foo	od service management)	10	
	Nutrition Facts Pa	inel		
	Serving Size			
	Calories Ingradiants list			
	Ouantitative indic	rations		
	Eood additives			
	• The percent daily	value		
	Allergan labelling			
Refere	ence Books			
1	Nutritional Science	s: From fundamental to food . By Michelle McGuiroand Kathy Rearman. Bublisher:		
1	Yolanda Cassio. ISB	N-13: 978-0840058201		
2	Pressman, Alan H., York: Alpha Books.	Sheila Buff, and Gary Null. The Complete Idiot's Guide to Vitamins and Minerals	. New	
3	Focus on Pathophys	siology, Barbara A. Bullock and Reet L. Henze Lippincott Williams & Wilkins, Philade	lphia	
4	Lehninger Principles	s of Biochemistry, 3rd ed London : Macmillan Press Ltd.		
5	5. Tortora G.J. and New York)	Anagnodokos, N.P. Principles of Anatomy and Physiology (Harper and Colling Publi	shers,	
6	Advanced Nutrition	: Macronutrients, Micronutrients, and Metabolism By: Carolyn D. Berdanier, Lynne	ette A.	
7	Functional Foods ar	nd Nutraceuticals By: Aluko, Rotimi E. Publisher: Springer		
8	B. Srilakshmi. Food	science. India, New Age International (P) Limited.		
9	Kumud Khanna, Sha	arda Gupta, Santosh Jain Passi, Rama Seth, Ranjana Mahna & Seema Puri . Textbo	ook of	
10	C.Gopalan Nutritiv	e Value of Indian Foods, India, ICMR nublications, University Electives		
10		e value of malar roous, mala, reivity publications. Only ersity Electives		

		GANPAT UNIVERSITY		
	FACULTY OF ENGINEERING & TECHNOLOGY			
Programme B.Tech				
Subje	ct Name	MATLAB for Engineers		
Subje	ct code	2OS194		
Learni	ng Outcome:			
Upon	course completion, a	a student will be able to:		
•	Use basic comman	ids and graphics in MATLAB.		
٠	Apply MATLAB in s	solving algebra and calculus problems.		
•	Create simple MAT	TLAB programs in engineering applications.		
Syllab	us - Theory			
Unit	Content		Hrs	
1	MATLAB basics –		5	
	The MATLAB enviro	onment - Basic computer programming - Variables and constants, operators and		
	simple calculations	- Formulas and functions - MATLAB toolboxes		
2	Matrices and vecto	ors –	6	
	Matrix and linear	algebra review - Vectors and matrices in MATLAB - Matrix operations and		
	functions in MATLA	AB		
3	3 Computer programming – 8			
	Algorithms and stru	uctures - MATLAB scripts and functions (m-files) - Simple sequential algorithms -		
	Control structures	(ifthen, loops)		
	MATLAB programn	ning - Reading and writing data, file handling - Personalized functions - Toolbox		
	structure - MATLAE	3 graphic functions		
4	Numerical simulati	ions –	5	
	Numerical method	s and simulations - Random number generation - Montecarlo methods		
5	Hands-on session		6	
	Interactive hands-	on-session where the whole class will develop one or more MATLAB scripts that		
	solve an assigned p	problem		
Refere	ence Books			
1	MATLAB Getting St	arted Guide http://www.mathworks.com/help/pdf_doc/matlab/getstart.pdf		
2	MATLAB Central (so	cript, toolbox, blog, newsgroup) http://www.mathworks.com/matlabcentral/ MAT	LAB	
	Newsletters			
3	http://www.mathw	vorks.com/company/newsletters		

GANPAT UNIVERSITY				
	FACULTY OF ENGINEERING & TECHNOLOGY			
Progra	amme	B.Tech		
Subje	Subject Name Technical Writing			
Subje	ct code	2OS195		
Learni	ng Outcome:			
At the	end of the course, st	tudents will be able to-		
•	Participate actively	y in writing activities (individually and in collaboration) that model effective s	cientific	
	and technical com	munication in the workplace.		
•	Understand how to	o apply technical information and knowledge in practical documents for a varie	ty of a.)	
	Professional audie	nces (including peers and colleagues or management) and b) public audiences.		
•	Practice the uniqu	ue qualities of professional writing style, including sentence conciseness, rea	dability,	
	clarity, accuracy, h	nonesty, avoiding wordiness or ambiguity, previewing, using direct order organ	nization,	
	objectivity, unbiase	ed analyzing, summarizing, coherence and transitional devices.		
Syllab	us - Theory			
Unit	Content		Hrs	
1	An Introduction to	Technical Writing	8	
	lechnical writing v	vs. General writing b. Purpose, importance and characteristics of technical		
	writing, Objectives	s of technical writing: Clarity, conciseness, accuracy, organization, ethics,		
	Audience recognition	on and involvement: High tech audience, low-tech. audience, gender neutral		
2	language.		2	
2	Memorandum	and hot was a new and an aile. Cuitaria and format for uniting and	2	
	Objectives, differer	nce between memos, letters and emails. Criteria and format for writing and		
	memos.		2	
3	Critoria and process	DI s. Tashnisal instructions for usar's manual	2	
	Report Writing		E	
4	Characteristics typ	es and writing of various reports: feasibility reports, inventory	5	
	report mishan ren	ort progress report laboratory reports		
5	Letter- writing	טונ, אוספובא ובאטוגנטוע ובאטוגנ	1	
5	Business letters- or	der complaint inquiry Job-applications Resume Business Proposals 05	4	
	Types & formats	aci, complaint, inquiry, sob applications, resume business rioposais os		
6	Graphic representa	tion of Technical Data, SOP writing Promotional	4	
Ū	Writings			
	Technical Brochure	designing ,Content writing for Websites (For promotional and		
	troubleshooting pu	rposes), Writing Fliers and Newsletters		
7	Academic Writing C)5	5	
	Summaries, abstrac	cts and instructions, Case studies on Technical Writing		
Refere	ence Books			
1	Sharon J. Gerson ar	nd Steven M. Gerson. Technical writing – process and product. Pearson		
_	Education Asia .			
2	Andrea J. Ratherfor	rd ,Basic Communication Skills for Technology, Pearson Education Asia		
3	Pfeiffer, W.S. and T	V.S. Padmaja. Technical Communication. Pearson.		
4	Muralikrishna and S	Sunita Mishra. Communication Skills for Engineers. Pearson		
5	CharlesW.Knisely a	nd KarinI.Knisely.Engineering Communication. Cengage		

	GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY		
Progr	amme	B.Tech		
Subje	ct Name	Operations Research		
Subje	ct code	2OS201		
Learn	ing Outcome	:		
On su	iccessful com	pletion of the course the students will be able to:		
	 Describ 	pe characteristics and scope of OR.		
	 Define 	and formulate mathematical problems.		
	 Studen 	ts will be able to select optimal problems solving techniques for a given problem using L	Ρ.	
	• Formu	late and solve transportation, travelling sales man and transshipment problems.		
	• formul	ate and solve ontimization problems related to job/ work assignments		
	• Ionna	are and solve optimization problems related to job/ work assignments		
Theo	rv svllabus			
Unit		Content	Hrs	
1	Introductio	n to Operations Research:	4	
1	Introductio	n Historical Background Scope of Operations Research Eestures of Operations	4	
	Research	Phases of Operations Research Types of Operations Research Models Operations		
	Research	Mathodology Operations Research Techniques and Tools Structure of the		
	Mathemati	cal Model Limitations of Operations Research		
2	Linear Prop		1	
2	Introductio	n Linear Programming Problem Requirements of LPP Mathematical Formulation of	-	
	IPP Car	se Studies of LPP Graphical Methods to Solve Linear Programming Problems		
	Application	s Advantages Limitations		
3	Graphical	Analysis of Linear Programming Problems:	6	
5	Introductio	n Granhical Analysis Some Basic Definitions Granhical Methods to Solve IPP Some	Ū	
	Exceptional	Cases Important Geometric Properties of IPP Simplex Method: Introduction		
	Standard F	orm of LPP. Fundamental theorem of LPP. Solution of LPP – Simplex Method. The		
	Simplex Al	gorithm. Penalty Cost Method or Big M-method. Two Phase Method. Solved		
	Problems of	on Minimisation. Importance of Duality Concepts. Formulation of Dual Problem.		
	Economic II	nterpretation of Duality, Sensitivity Analysis		
4	Transporta	tion Problem:	4	
	Introductio	n, Formulation of Transportation Problem (TP), Transportation Algorithm (MODI		
	Method), th	ne Initial Basic Feasible Solution, Moving Towards Optimality		
5	Assianmen	t Drohlem:	1	
5	Introductio	n Mathematical Formulation of the Problem, Hungarian Method	-	
	Algorithm	Routing Problem Travelling Salesman Problem, Types of Integer Programming		
	Problems	Gomory's All-IPP Method, All IPP Algorithm, Branch and Bound Technique		
6	Infinite Oue	evina Models:	4	
U	Introductio	n Queuing Theory Operating Characteristics of a Queuing System Constituents of a		
	Queuing Sv	stem. Service Facility. Queue Discipline		
7	Adathemet		4	
/	wathemati	cal Analysis of Queuing Theory:	4	
	Netations	n, Mathematical Analysis of Queuing Process, Properties of Queuing System,		
	Distribution	of Service Times		
Toyt	Distribution			
1	Operations F	Perearch by A M Nataraian, B Balasubramani, A Tamilarasi, Bearson Education Inc.		
1 2	Operations F	Research by P Mariannan, Poarson		
2 Pofor		אכזכמונוו שא ד ואומוומגואמוו, דפמוזטוו		
	Hamdy A To	has Operations Research An Introduction Prontice Hall Oth Edition 2010 2 A Deviad	20	
T	Don T Dhillin	na. Operations Research-An introduction, Prentice Hall, 9th Edition, 20103. A. Kavindri as James J. Solberg: Operations Research, Principles and Practice, John Wiley & Song 20	all, 05 /	
		onlinear and Dynamic Programming, Addison Meeley, 1964	05.4.	
2	2. Mourey: N	Winston and M. Vankataramanan Introduction to Mathematical Programming: Applicat	ions	
2	2. wayne L.	winston and wit venkataramanan. Introduction to Wathematical Programming: Applicat	10115	
	anu Aigorith	1115, 411 EUROII, DUXDULY FIESS, 2002		

3	3. A. Ravindran, Don T. Phillips, James J. Solberg: Operations Research. Principles and Practice, John Wiley
	& Sons, 2005

		GANPAT UNIVERSITY		
	FACULTY OF ENGINEERING & TECHNOLOGY			
Progr	amme	B.Tech		
Subje	ct code	205202		
Subje	ect Name	Elements of Management		
Learr	ing Outcom	e:		
On su	ccessful cor	npletion of the course the students will be able to:		
٠	Understand	l basic concepts, principles and practices of management		
•	Learn the s	cientific decision making and modern trend in the management process		
•	Understand	I the contemporary practices and issues in management		
Theo	ry syllabus			
Unit		Content	Hrs	
1	Definitio	n, Functions, Process, Scope and Significance of Management. Nature of Management,	6	
	Manager	al Roles, Managerial Skills and Activities, Difference between Management and		
	Administration. Significance of Values and Ethics in Management.			
2 Evolution of Management Thought, Approaches of Management Thought, Functions of		of Management Thought, Approaches of Management Thought, Functions of	4	
	Manager	nent.		
			_	
3	Planning	and Organizing Nature, Scope, Objective and Significance of Planning, Elements and	8	
	Steps of	Planning, Decision Making Organizing Principles, Span of Control, Line and Staff		
	Relations	hip, Authority, Delegation and Decentralization. Effective Organizing, Organizational		
	Structure	s, Formal and Informal Organizations, Staffing		
4	Different	Theories of Motivation Maslow, Herzberg, Mc Clelland, Vroom, Porter and Lawler, Job	8	
	Satisfacti	on. Concept of Leadership- Theories and Styles. Communication Process, Channels and		
_	Barriers,	Effective Communication.		
5	Coordina	tion Concept, Importance, Principles and Techniques of Coordination, Concept of	4	
	wanager	arenectiveness		
Text	Books			
1	Managem	ent-Tasks, Responsibilities & Practices by Drucker, F. Peter		
Refer	ence Books			
1	Elements of	f Management by Koontz "O" Donnel Weihrich		
2	Principles	of Management by Terry and Franklin		
3	The Proces	s of Management by William H. Newman and E. Kirby Wassen		

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progr	amme	Bachelor of Technology	
Subje	ct code	2OS203	
Subje	ct Name	Yoga and Meditation	
Learn	ing Outcome:		
On su	iccessful comp	pletion of the course the students will be able to:	
•	To Practice	e mental hygiene	
•	To attain h	igher level of consciousness	
•	To possess	emotional stability	
Theo	ry syllabus		
Unit		Content	Hrs
1	Introductio	n	8
	Human Bod	ly- Meaning and its Importance in Yoga, General information, Different parts, Structure,	
	Function an	nd Effect of yogic practices	
2	Human Bio	logy	7
	Anatomy &	Physiology, Yogic Diet, Nutrition & related Biochemistry, Yoga & Psychology,	
3	Introductio	n to Meditation	8
	What is m	neditation, why meditate, When and where to meditate, how long to meditate,	
	Harnessing	the power of breath, Asanas and pranayama	
4	Visual tech	niques	7
	Introductio	n to visualisations, Tratak, Focus on brahmacharya, ishwarapranidhana, Pratyahara	
Sugge	ested Reading	S	
1.	O.P. Tiwari -	Asana why and how, Kaivalyadham SMYM samiti, Lonavala, 2012	
2.	M.L. Gharote	e - Guidelines for Yogic Practices, Medha Publication, Lonavla	
3.	Dr. Arun K. S	ao & Dr. Akhileshwar Sao - Tanav Avm Yoga, Radha Pub. New Delhi, 2013	

	GANPAT UNIVERSITY				
	FACULTY OF ENGINEERING & TECHNOLOGY				
Progr	Programme Bachelor of Technology				
Subje	Subject Name Economics for Engineers				
Subje	ct code	OSAE101			
Learn	ing Outcome:				
The s	yllabus aims t	o test the student's ability to:			
•	Describe th conditions	ne principles of economics that govern the operation of any organization under diverse	e market		
•	Compreher	nd macroeconomic principles and decision making in diverse business set up			
Theo	ry syllabus				
Unit		Content	Hrs		
1	Economic D	Decisions Making:	8		
	Overview, P	Problems, Role, Decision making process.			
	Engineering	g Costs & Estimation			
	Fixed, Varia	able, Marginal & Average Costs, Sunk Costs, Opportunity Costs, Recurring And			
	Nonrecurrir	ng Costs, Incremental Costs, Cash Costs vs Book Costs, Life-Cycle Costs; Types Of			
	Estimate, E	stimating Models - Per-Unit Model, Segmenting Model, Cost Indexes, Power-Sizing			
	Model, Imp	rovement & Learning Curve, Benefits.			
2	Cash Flow,	Interest and Equivalence:	8		
	Cash Flow Nominal &	 Diagrams, Categories & Computation, Time Value of Money, Debt repayment, Effective Interest. 			
3	Cash Flow &	& Rate Of Return Analysis	6		
	Calculations	s, Treatment of Salvage Value, Annual Cash Flow Analysis, Analysis Periods; Internal			
	Rate Of Ret	urn, Calculating Rate of Return, Incremental Analysis; Best Alternative Choosing An			
	Analysis Me	ethod, Future Worth Analysis, Benefit-Cost Ratio Analysis, Sensitivity And Breakeven			
	Analysis.				
4	Inflation Ar	nd Price Change	8		
	Definition, I	Effects, Causes, Price Change with Indexes, Types of Index, Composite vs			
	Commodity	Indexes, Use of Price Indexes In Engineering Economic Analysis, Cash Flows that			
	inflate at di	fferent Rates.			
Text I	Books				
1	1 James L. Riggs, David D. Bedworth, Sabah U. Randhawa : Economics for Engineers 4e , Tata McGraw-Hill				
2	John A. Whit	e, Kenneth E. Case, David B. Pratt : Principle of Engineering Economic Analysis, John W	/iley		

		GANPAT UNIVERSITY		
		FACULTY OF ENGINEERING & TECHNOLOGY		
Programme Bachelor of Technology				
Subje	ct Name	Entrepreneurship Development		
Subje	ct code	OSAE102		
Learn	ing Outcome:			
The s	/llabus aims t	o test the student's ability to:		
•	Understan	d and formulate entrepreneurship process		
•	Analyse fin	ancial and marketing feasibilities		
•	Evaluate b	usiness models		
Theor	y syllabus			
Unit		Content	Hrs	
1	Basic Entre	preneurial Concepts:	8	
	Definition	and structure. Entrepreneurial culture, the concept of Entrepreneurship,		
	Entreprene	urial Traits: Entrepreneurial Skills, Qualities and Characteristics of an Entrepreneur,		
	Nature and	Importance of entrepreneurs. Entrepreneurship as a career choice. Contribution of		
	entreprene	urs to the Development of the Nation.		
2	Entreprene	urial Development:	8	
	Entreprene	urial Environment, meaning and process of Entrepreneurial Development,		
	Entreprene	urial Development training, Importance, Objectives and Methods of Training.		
3	Project Ma	nagement:	6	
	Search for	Business Idea, Concept of Project and classification. Project Identification and		
	Formulation	n, Project Design & Network Analysis, Project Report, Project Appraisal.		
4	Financial A	nalysis	8	
	Investment	Process, Break even analysis, Budget and Planning Process. Sources of		
	Developme	nt Finance, Financial Institutions.		
Text E	Books			
1	Desai Vasant	, Dynamics of Entrepreneurial Development and Management. Himalaya Publishing H	ouse.	
2	Sankar Raj, E	ssentials of Entrepreneurship Tata McGraw Hill Pvt. Ltd.		

GANPAT UNIVERSITY			
FACULTY OF ENGINEERING & TECHNOLOGY			
Progr	Programme Bachelor of Technology		
Subje	Subject Name Electric Machines and Applications		
Subje	ct code	OSAE103	
Learn	ing Outcome:		
The sy	/llabus aims t	o test the student's ability to:	
•	Analyze co	nstructional aspects, operational aspects and performance of electrical machines	
•	Adopt suita	able control methods for operating electric machines	
•	Select appr	ropriate electric machines based on constructional and operational characteristics	
Theor	y syllabus		
Unit		Content	Hrs
1	DC Motors:		7
	Constructio	on & Operating principle, types of DC Motors, PMDC motors, back-emf and its	
	importance, torque production, characteristics, various losses & performance estimation,		
	speed cont	rol, applications	
2	Induction N	Motors:	8
	Constructio	on and operating principle-single phase and three-phase machines, types of	
	induction	motors, torque production, torque-slip characteristic, equivalent circuit	
	representat	tion, various losses & performance estimation, speed control, single-phase ac	
	motors, uni	iversal motors and applications.	
3	Permanent	Magnet Brushless DC (PMBLDC) Motors:	7
	Constructio	on and operating principle, torque and emf equations, torque/speed characteristic:	
	performanc	ce and efficiency, controllers for PMBLDC motors, applcations.	
4	Steppers ar	nd Servo Motors:	8
	Basics of st	tepper motor, construction, working and characteristics of variable reluctance(VR)	
	stepper m	otors, micro stepping control of stepper motor, construction and working of	
	multistack	VR stepper motor, construction and working of permanent magnet (PM) stepper	
	motor, con	struction and working of hybrid stepper motor, servo motor types, construction and	
	operation o	of servo motors, servo motor controllers and applications.	
Text F	Books		
1	A. E. Fitzgera	ald, Charles Kingsley and Stephen D Umans, Electric Machinery: The Dynamics and Sta	tics of
	Electromech	anical Energy Conversion by TMH.	

GANPAT UNIVERSITY			
	FACULTY OF ENGINEERING & TECHNOLOGY		
Programme	B.Tech		
Subject Name	Fundamental of Electronics		
Subject code	OSBM101		
Learning Outcome:			
The sector strength and the strength	the end-mentioned a bioextines of the end-ment and the educate students to extrain the following.		

The educational objectives of the course are to educate students to attain the following:

- Students can get clear idea of fundamentals of electronic components.
- Develop practical skills using various types of electronic components.
- Develop skills of testing components needed for the project and experiments.
- Enable the student to develop the ability to understand datasheets.

Theor	y syllabus	
Unit	Content	Hrs
1	RESISTORS : Concept of resistors, classification of resistors, materials used for resistors, resistors general specification, color coding, Application in the field of Medical equipment and measurements.	6
2	CAPACITORS: Classification of capacitors, materials used for capacitors, capacitors specification:-capacitor working voltage, Coding of capacitors-using numerals, colour band system, directly printed values on capacitors, capacitive reactance	5
3	CABLES: General specifications of cables- characteristic impedance, current carrying capacity, flexibility. Types of cables - construction and applications of coaxial cable, 600 E telephone cable-PASP, FRC cable, twin core cable twisted & shielded type, optical fiber cable.	5
4	CONNECTORS: General specifications of connectors- contact resistance, breakdown voltage, insulation resistance, Constructional diagram, applications of BNC, D series, Audio, Video, printer, edge, FRC, RJ 45 connectors.	4
5	FUSES: Glass, ceramic fuse, resettable fuse, shunt fuse- MOV, HRC fuse.	3
6	SWITCHES: Switch specifications – voltage rating, contact current rating, contact resistance, characteristics of switch & relay, application of toggle, rotary, push to on & push to off, rocker switch	4
7	RELAYS: Construction, working and application of general purpose relay, reed relays, solid state relays, difference between switch & relay	3
Refere	ence Books:	
1	Basic Electronics by Debashis Publisher: De Pearson	
2	Electronic Components and Materials by Dhir Publisher: Tata McGraw Hill	

	GANPAT UNIVERSITY			
	FACULTY OF ENGINEERING & TECHNOLOGY			
Programme B.Tech/M.Tech				
Subjec	Subject Name 3D Printing			
Subjec	t Code	OSBM102		
Learni	ng Outcome:			
The ec	lucational objectiv	ves of the course are to educate students to attain the following:		
•	Student will abl	e to use software tools for 3D Printing.		
•	Able to prepare	3D printed modules.		
•	Design products	s using LOM and FDM technologies.		
Theory	y syllabus			
Unit		Content	Hrs	
	INTRODUCTION	: introduction to design, prototyping fundamentals, introduction to 3d printing,		
	its historical dev	relopment, advantages, commonly used terms, process chain, 3d modelling, data		
1	conversion, trar	nsmission, checking and preparing, building, post processing, RP data formats,	10	
	classification of a	3D printing process, application in biomedical field.		
	LIQUID BASED	3D PRINTING: Stereo lithography apparatus (SLA): Models and specifications,		
	process, working	g principle, photopolymers, photo polymerization, layering technology, laser and		
2	laser scanning,	applications, advantages and disadvantages, case studies. Solid ground curing	10	
	(SGC): Models	and specifications, process, working ,principle, applications, advantages and		
	disadvantages, c	ase studies		
	SOLID BASED 3	D PRINTING: Laminated object manufacturing (LOM): Models and specifications,		
2	Process, Workin	g principle, Applications, Advantages and disadvantages, Case studies. Fused	10	
3	Deposition Mod	elling (FDM): Models and specifications, Process, Working principle, Applications,	10	
	Advantages and	disadvantages, Case studies, practical demonstration		
Retere	ences Books:			
1	1 Chua C.K., Leong K.F. and LIM C.S Rapid prototyping: Principles an Applications, World Scientific			
	publications, 3r	dEd., 2010		
2	Paul F. Jacobs, "Rapid Prototyping and Manufacturing"–, ASME Press, 1996			
3	D.T. Pham and S.S. Dimov, "Rapid Manufacturing", Springer, 2001.			
4	Terry Wohlers,	"Wholers Report 2000", Wohlers Associates, 2000		
5	lan Gibson, Dav	in Rosen, Brent Stucker "Additive Manufacturing Technologies, Springer, 2nd Ed, 20	14.	

	GANPAT UNIVERSITY			
	FACULTY OF ENGINEERING & TECHNOLOGY			
Pro	Programme Bachelor of Technology			
Subject Name Digital Marketing				
Sub	oject	code	OSCE101	
Lea	arning	g Outcom	ne:	
Aft	er su	ccessful o	completion of the course, student will be able to	
•	An	alyse the	confluence of marketing, operations, and human resources in real-time delivery.	
•	De	monstrat	e cognitive knowledge of the skills required in conducting online research and research on	online
	ma	irkets, as	well as in identifying, assessing and selecting digital market opportunities	
•	e Exp	olain eme	erging trends in digital marketing and critically assess the use of digital marketing tools by	
	apı	plying rel	evant marketing theories and frameworks.	
•	lnv	vestigate a	and evaluate issues in adapting to globalized markets that are constantly changing and	
	inc	reasingly	networked	
•	Co	mprehen	d the importance of conversion and working with digital relationship marketing; and Analys	se
	cro	oss-cultur	al and ethical issues in globalised digital markets.	
The	eory	syllabus		
U	nit		Content	Hrs
	1.	INTRO	DUCTION TO DIGITAL MARKETING	5
		Marketi	ng- Understanding Digital Marketing Process - Types of visibility - Bringing-Targeted	
	-	Traffic -	Inbound and outbound marketing	
	2.	DIGITAL	MARKETING VS. TRADITIONAL MARKETING	6
	Benefits of Traditional Marketing - Benefits of Digital Marketing - Tools of Digital Marketing – The			
	•	Downsie	de to Traditional Marketing – Use of Both Digital & Traditional Marketing	-
	3.	SEARCI	H ENGINE OPTIMIZATION	/
		Introdu	ction to SERP - search engines - Major functions of a search engine - Different types of	
	Λ	social	AS - Reywords research process - On-Page SEO - On- Page SEO - Mieta Tags, Description	7
	4.	SUCIAL	. MEDIA MARKETING	/
		Targotir	and in ad campaign. Sotting up conversion tracking. Video Marketing. Bonefits of video	
		marketi	ng - Targeting Options - Understanding Bid Strategy	
	5	GOOG		5
	J.	Google	analytics - google adwords & online display advertising - email marketing - lead	5
		generat	ion for business - content marketing - affiliate marketing	
Re	feren	ce Books		
1	Gui	arati N Da	amodar & amp: Dawn C. Porter, Basic Econometrics, McGrew Hill International	
2	Dou	igherty C	hristopher. Introduction of Econometrics. Oxford University Press	
3	Balt	tagi H Bac	dai. Econometries – Springer International	
4	Rao	P and R.	L. Miller, Applied Econometrics Prentice Hall of India LTD, New Delhi	
5	Klei	n I. R A	n Introduction to Econometrics. Prentice-Hall of India Ltd.	
6	Gol	dberger A	A. S. Topics in Regression Analysis, Macmillam, New York	
7	Dilip M. Nachane, Econometrics: Theoretical Foundations and Empirical Perspectives Oxford			
	University Press India			
8	Lev	in L Richa	rd and Rubin S Davide Statistics for Management, Prentice Hall. Pearson Brown	
9	Will	liam S, Int	troduction Econometrics West Group	

GANPAT UNIVERSITY						
FACULTY OF ENGINEERING & TECHNOLOGY						
Programme		Bachelor of Technology				
Subject Name		Animation				
Subject code		OSCE102				
Leari	Learning Outcome:					
After successful completion of the course, student will be able to						
	 Explore different approaches in computer animation. 					
	 Learn and perform 3D animations on Different work spaces. 					
	 Develop competencies and skills needed for becoming an effective Animator. 					
	 Master the traditional & digital tools to produce stills and moving images. 					
Theo	Theory syllabus					
Unit	:	Content	Hrs			
1	1 Basic of Sketching: Introduction to pose to pose sketching (Action analysis). Rapid sketching		10			
	live mod	live models, Introduction to Acting, Modeling, Sketching from Acting, Sketching from live models,				
	Introduc	tion to Rapid Sketching Techniques, Sketching from Memory, live action. Basics of Acting				
	- Style b	reaking, Movements.				
2	2 Basic of	Basic of Shaping, shading & Drawing : Shading in different angles of pencil strokes, formatting in 08				
	different	different textures with pencil, shading, simple objects in drawing, simple shapes of geometrical				
	shapes,	roadsides, rivers, perspective in lines in landscapes, different head shapes, characters,				
	human a	natomy				
3 Introduction to 3D: Introduction to 3		tion to 3D: Introduction to 3D, Interface of 3D Max, Basics of 3D Max Modeling,	06			
	Exportin	g, Using the menus. Floating and docking, Using drag and drop feature, Introduction to				
	different	workspaces. Geometry, sub objects, Extruding, welding, bridging etc. Recognizing the				
	workspa	ces.				
2	1 Introduc	tion to Modifiers: Introduction to modifiers and modifier gizmos. Familiarity with	06			
	commor	modifier like bend, editpoly, Xform wave, lathe symmetry etc				
Reference Books						
1 [Drawing: The head and Figure; Jack Hamm; Penguin Publishers					
2 F	Pencil Sketching: Thomas C Wang; John Wiley and Sons					
3 1	The Art of Max:An Introduction to 3D Computer Graphics; Autodesk Maya Press					
4 I	Introduction to 3D; James McBennet					

GANPAT UNIVERSITY						
FACULTY OF ENGINEERING & TECHNOLOGY						
Programme Master of Technology						
Subject Name		Research and Publication Ethics				
Subje	Subject code OSCE103					
Learn	Learning Outcome:					
On co	On completion of this course, the student will be able to:					
	 Understand the importance of being ethical in carrying out research and publication activities. 					
	• Differentiate the quality publication practices and how to be cognizant about dubious publishing					
	practices/publishers					
	Get awareness about 'open access' and contribution of research output to open access publishing platform					
Theory syllabus						
Unit	y synabas	Content	Hrs			
01110	1 Philosoph	and Ethic: Introduction to philosophy: definition nature and scope concent	04			
	hranches	Thics: definition moral philosophy, nature of moral judgments and reactions	04			
	Scientific Conduct: Ethics with respect to science and research. Intellectual benesty and research 06					
	integrity	Scientific misconducts: Ealsification Eabrication and Plagiarism (EEP) Redundant	00			
	publication	os: duplicate and overlapping publications, salami slicing. Selective reporting and				
	misreprese	entation of data				
	3 Publication	1 Ethics: Publication ethics: definition, introduction and importance. Best practices /	07			
	standards	setting initiatives and guidelines: COPE, WAME, etc. Conflicts of interest, Publication				
	misconduc	t: definition, concept, problems that lead to unethical behavior and vice versa, types,				
	Violation of	of publication ethics, authorship and contributor ship, Identification of publication				
	misconduc	t, complaints and appeals Predatory publishers and journals				
	1 Open Acc	ess Publishing: Open access publications and initiatives, SHERPA/RoMEO online	06			
	resource to	o check publisher copyright & self-archiving policies, Software tool to identify predatory				
	publicatior	ns developed by SPPU, Journal finder / journal suggestion tools viz. JANE, Elsevier				
	Journal Fin	der, Springer Journal Suggested, etc.				
l	5 Databases	and Research Metrics: Indexing databases, Citation databases: Web of Science,	07			
	Scopus, et	c. Impact Factor of journal as per Journal Citation Report, SNIP, SIR, IPP, Cite Score				
	2,Metrics:	h-index, g index, i10 index, altimetry's				
Reference Books						
1.	Resolving Etl	nical Dilemmas by Bernard Lo				
	A Companio	A Companion to Bioethics by Helga Kuhse (Editor); Peter Singer; Peter Singer (Editor)				
2.	2. RESEARCH & PUBLICATION ETHICS Paperback – 13 September 2021					
	by Wakil Kumar Yadav (Author)					
3.	3. Handbook of Research and Publication Ethics (Strictly as per UGC 2 Credit Course) [P					
	Chowdhary (Editor) and Sarah Hussain (Editor					
4.	Resolving Etl	nical Dilemmas by Bernard Lo				
GANPAT UNIVERSITY						
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		FACULTY OF ENGINEERING & TECHNOLOGY				
Program	nme	B.Tech				
Subject	Name	Business Economics				
Subject	code	OSCE104				
Learnin	g Outcome:	•				
On succ • build a	essful complet strong theoret	ion of the course, the students will be: ical foundation of the various functions of management.				
Syllabu	s - Theory					
Unit	Content		Hrs			
1	Introduction:Nature and Scope of Managerial Economics, Managerial Economics and Microeconomics and macroeconomics. Managerial Economics and decision-making. Uses and Significance of Managerial Economics.6					
2	Meaning and Determinants of Demand: Demand Function, Law of Demand Market6Demand, Elasticity of Demand, Types and Measurement of Elasticity, Demand6Forecasting. Meaning, Significance and Methods of Demand Forecasting.6					
3	Production Function: Law of Variable Proportions. Law of Supply. Elasticity of Supply.6Measurement of Elasticity of Supply. Costs of Production: Short run and long run costs.6Economies of Scale. Cost estimation and cost forecasting. Breakeven analysis.6					
4	Pricing Under Various Market Forms; Perfect competition, Monopoly Monopolistic6Competition, Oligopoly, Price Discrimination, Prevention and Control of Monopolies, System of Dual Prices.6					
5	Pricing Strategies and Methods, Cost plus Pricing, Marginal cost Pricing, Price 6 Leadership, Transfer Pricing, Seasonal Pricing Seasonal Pricing, Cyclical Pricing.					
References						
1	1 Managerial Economics – Analysis, Problems and Cases, P.L.Mehta, Sultan Chand and Sons, New Delhi.					
2	Managerial I	Economics - Varshney and Maheshwari, Sultan Chand and Sons, New Delhi				

GANPAT UNIVERSITY					
		FACULTY OF ENGINEERING & TECHNOLOGY			
Progra	mme	M.Tech			
Subject	t Name	Principles of Management			
Subjec	t code	OSCE105			
Learnin	ng Outcome:				
On succe • Build a	essful completion of t strong theoretical fo	the course, the students will be: oundation of the various functions of management.			
Syllabu	ıs - Theory				
Unit	Content		Hrs		
1	Management cor importance of Ma	ncepts & Evaluation of Management: Management- Meaning, Nature, the nagement, management as Art, Science, Profession.	4		
2	Business and Society: Business Ethics and Values / Standard of Ethics, Business and 5 Environment, Social responsibilities and Obligations of Business, Changing Scenario of Business Responsibilities.				
3	Functions of Management-I:Planning: Meaning, Nature, Features, Types, Importance, steps, Objectives, Budget, Mission, Strategy, Policy, Principles, Rules, Procedures, Methods, Advantages, and Limitations of Planning, Decision making, Meaning, Types, Methods, and Techniques, Business Forecasting, MBO, MBE.7				
4	Functions of Management-II : Organizing: Concept, Importance, Principles, Foundation and Dimension of Organization, Structure, Span of Management, Delegation and Departmentalization: Meaning, Importance, Types, and Principles of Delegation, Authority Responsibility and Accountability, Centralization vs Decentralization Principles and Basis of Departmentalization.				
5	Functions of Management-III : Manpower planning, Job, Analysis, Recruitment, Selection and Placement, Job, Evaluation, Induction, and Training Performance Appraisal. Directing:-Meaning, Features, Importance, Principles of Directing. Control: Meaning, Types of control, Control Techniques- Budgetary Control Techniques, Non-Budgetary Control Techniques.				
References					
1.	. Principle of Management : T. Ramaswamy, (Himalaya Publishing House)				
2.	2. Management & Organizational Behaviour : Dr. P. Subhan Rao (HPH) (Text, Cases & Games)				
3	Organization Struc	cture & design : PG Aquinas (Encel Books) (Application & Challenges)			
4.	Organization & Ma	anagement : C R Basu (S. Chand & Co. Ltd)			
5.	Principles of Mana	agement: Pradeep Kumar (Kedar Nath Ram Nath & Co.)			

GANPAT UNIVERSITY			
FACULTY OF ENGINEERING & TECHNOLOGY			
Progra	mme	Bachelor of Technology	
Subjec	t Name	BASICS OF REMOTE SURVEYING & GIS	
Subjec	t code	OSCEAI101	
Learnii	ng Outcome	2:	
Upon	completion	of this course, students will acquire knowledge about	
•	Understa	and the concepts of Photogrammetry and compute the heights of objects	
•	Understa	and the principles of aerial and satellite remote sensing, Able to comprehend the end	ergy
	interacti	ons with earth surface features, spectral properties of water bodies	
•	Understa	and the basic concept of GIS and its applications, know different types of data representa	tion
	in GIS		
•	Underst	and and Develop models for GIS spatial Analysis and will be able to know what the quest	ions
	that GIS	can answer are	
•	Apply kr	nowledge of GIS software and able to work with GIS software in various application fields	
•	Illustrate	e spatial and non-spatial data features in GIS and understand the map projections	and
_	coordina	ites systems	ana
	Apply kp	owledge of CIS and understand the integration of Remote Sensing and CIS	
Theory			
Linit	/ synabus	Contont	Hrc
1	DEMOTE	Content	
T	REIVIOTE	Sensing: Demilition - Physics of Remote Sensing - Electromagnetic Radiation (EWR) -	06
	віаскроду	Radiation - Planck's Law - StefanBoltzmann Law - Wien's Displacement Law -	
	Compone	nts of Remote Sensing - Atmospheric Windows and Blinds - Interaction of EMR with	
	atmosphe	ere, and Earth's surface: soil, water and vegetation - Remote Sensing Platforms and	
	Sensors –	Image Interpretations	
2	GEOGRAF	PHICAL INFORMATION SYSTEM: Maps - Classification of Maps - Map Scale - Map	06
	Projection	ns - Grouping of Map Projections - Commonly used Map Projections and their	
	Comparis	on- GIS - Historical Development of GIS - Components of GIS - Data - Types of Data -	
	Spatial an	id Non-spatial - Vector Data - Point, Line, Polygon - Raster Data - Database Structures -	
2		a Raster Data Structures - Files - File Formats	06
5		Rester Data Analysis - Madalling in ClC. Disital Floyation Madal. Cast and Data Analysis	00
	Analysis -	Raster Data Analysis - Wodelling in GIS – Digital Elevation Wodel - Cost and Path Analysis	
-	- Network	Analysis - Expert Systems - Artificial Intelligence - Integration with GIS	
4	DATA OU	TPUT AND ERROR ANALYSIS: Data Input Output Devices - Raster and Vector Data Display	06
	Devices -	Printers, Plotters Sources of Errors - Types of Errors - Elimination of Errors - Precision	
_	and Accur	acy	
5	SOFTWAF	RES FOR GIS AND REMOTE SENSING: Data processing using RS and GIS software, Case	06
	study usir	ng software, Hands on training session to process the drone data	
Refere	nce Books		
1. K	umar S., "B	asics of Remote Sensing and GIS", Laxmi Publication (P) Ltd	
2. E	langovan K	., "GIS: Fundamentals, Applications and Implementations", New India Publishing Agency	, New
	eini, 2006	Change "Introduction to Congraphical Information Contains" Tata Machine Util 2002	
3 K	ang- Isung	chang , Introduction to Geographical Information System", Tata McGraw Hill, 2002	

GANPAT UNIVERSITY					
Duri	FACULTY OF ENGINEERING & TECHNOLOGY				
Programme Bachelor of Technology		Bachelor of Technology			
Sub	Subject Name Advanced Surveying				
Sub	oject code	OSCEAI102			
Lea	rning Outcome:				
On	 successful completion Survey drones for a contrast outdated or events The good quality points and components 	on of the course, the students will be: for high-resolution orthomosaics and detailed 3D models of areas where low-qual en no data are available ity drone equipment, careful flight planning, commercial grade GPS ground cont mercial grade processing software	lity, trol		
Syll	abus - Theory				
Uni	it Content		Hrs		
1	THEODOLITE: horizontal and theodolite, Me and Theodolite	Introduction to theodolite, Uses of theodolite, Reading of main and vernier scale on I vertical plate, Temporary adjustment of a theodolite, Permanent adjustment of ethods of measuring horizontal angles and vertical angles, Errors in theodolite work e Traversing, Traverse computations, Closing errors, Balancing the traverse	06		
2	TRIGONOMET Methods of de when base of t	TRIGONOMETRICAL LEVELLING: Introduction - Methods of observations (Direct and Reciprocal), Methods of determining the elevation of a particular point, when base of the object is accessible, when base of the object is inaccessible, Related examples using all methods06			
3	TACHEOMETR used in Tache Tacheometer, and staff hele Elevation & De	TACHEOMETRY: Introduction -Purpose and Principles of tacheometric surveying, Instruments used in Tacheometry, Theory of Stadia Tacheometry, Methods of determining constants of a Tacheometer, Methods of Tacheometry, Method of Fixed Hair. When line of sight is horizontal and staff held vertically, When line of sight is inclined and staff held vertically (Angle of Elevation & Depression), Advantages and disadvantages of Tangential method			
4	CURVES: Intro Relation betw simple circula Requirements	duction - Types of circular curves, Definitions and notations, Designation of curve, een Radius and degree of curve - Elements of simple circular curve - Setting out r curve - Methods of setting out simple circular curves, Transition curves, and purpose of it, Vertical curves	06		
5	ADVANCED So distance meas Remote Sensir features, Imag Positioning sys Functions of C Remote sensir	URVEY EQUIPMENTS: Introduction, Electromagnetic spectrum, Electromagnetic urement, Total station, Lidar scanners for topographical survey. Drone surveying. ng: Introduction, Principles of energy interaction in atmosphere and earth surface te interpretation techniques, visual interpretation. Digital image processing, Global stem Geographical Information System: Definition of GIS, Key Components of GIS, GIS, Spatial data, spatial information system Geospatial analysis, Integration of and GIS and Applications in Civil Engineering (transportation, town planning)	06		
References					
1	1 B.C. Punmia, "Surveying Vol.2", Laxmi Publications pvt. Ltd., New Delhi, 2018				
2	2 K.R. Arora, "Surveying Vol. 1" Standard Book House, New Delhi, 2019				
3	T.M Lillesand,. R.W Kiefer,. and J.W Chipman, Remote sensing and Image interpretation, 5th edition, John Wiley and Sons India				
4	S.K. Duggal, "Surve	eying Vol.I & II", Tata McGraw Hi II Publishing Co. Ltd. New Delhi,2019			
5	R Subramanian, Su	urveying and Leveling, Second edition, Oxford University Press, New Delhi, 2012			

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Program	Programme B.Tech		
Subject	Name	Applied Statistics	
Subject	code	OSCI101	
Learning	g Outcome:		
After su	ccessful completion o	of the course, student will be able to	
•	Relate the concept of	f probability and statistics and their need in engineering.	
•	Compute and interpr	et the results of regression and correlation analysis.	
•	Perform probabilistic	and statistical analysis of data related to engineering research projects.	
Syllabus	- Theory		
Unit	Content		Hrs
1	The role of statistic	s in engineering:	6
	The engineering me	ethods and statistical thinking, collecting engineering data, Mechanistic and	
	empirical models, P	robability and probability models.	
2	Probability and random variables:		6
	Discrete and contin	uous random variables, probability mass, Probability density and cumulative	
	distributions function	ons, Binomial, Poisson distribution and normal distribution.	
3	Descriptive statistic	cs and point estimation:	6
	Numerical summar	ies of data, frequency distribution and histograms, scatter diagrams, stem and	
	lead diagrams, poir	at estimation.	
4	Sampling distributi	on and estimation:	6
	Confidence interval	on the mean of a normal distribution, confidence interval on the variance	
	and standard devia	tion of a normal distribution.	
5	Regression and cor	relation:	6
	Properties of least s	squares estimators, hypothesis test in linear regressing, correlation.	
Referen	ces	· · · · · · · · · · · · · · · · · · ·	
1	Kadiyali. L. R., "Traf	fic Engineering and Transport Planning", Khanna Publishers	
2	Kumar S. R., "Introd	duction to traffic engineering", The orient black swan south Asian edition.	

		GANPAT UNIVERSITY		
		FACULTY OF ENGINEERING & TECHNOLOGY		
Progra	ımme	B.Tech		
Subjec	t Name	Road Safety Management		
Subjec	t code	OSCI102		
Learni	Learning Outcome:			
After s	successful completion	n of the course, student will be able to		
•	Appraise the desig	n parameters of road geometry.		
•	Analyze traffic char	racteristics of road traffic.		
•	Evaluate the cause	s of road accidents and take part in road safety audit.		
Syllab	us - Theory			
Unit	Content		Hrs	
1	Introduction to r	oad safety and Geometrics:	6	
	Introduction to r	oad safety, importance and scope, road characteristics and cross section		
	elements, sight d	listance, concept of horizontal and vertical alignment, road intersections and		
	types.			
2	Traffic Characteristics:		6	
	Importance and scope of traffic characteristics, human factors governing road users			
	characteristics, vehicular characteristics, overview of traffic surveys, traffic stream flow			
	characteristics, c	oncept of passenger car units and level of services.		
3	Road Accidents:		6	
	Causes and preve	ention, scientific investigation and data collection, analysis of individual		
	accidents to arriv	ve at real causes, cost of road accidents, use of accident data in planning of		
	reconstruction of	f roads.		
4	Road safety audi	it:	6	
	Principles and pr	ocedure, code of good practice and checklists, road safety issues, education		
	and enforcement	t measures for improving road safety, safety of pedestrians, cycle paths,		
	location of rest a	reas and bus stop.		
5	Traffic managem	ient techniques:	6	
	Integrated safety	Improvement and traffic calming measures, speed and load limit, traffic		
	ingnting, use of in	trenigent transportation system (115), economic evaluation of road		
Pofora	improvements.			
Refere				
1	Kadiyali. L. R., "Tro	iffic Engineering and Transport Planning", Khanna Publishers		
2	Kumar S. R., "Intro	duction to traffic engineering", The orient black swan south Asian edition.		

GANPAT UNIVERSITY					
	FACULTY OF ENGINEERING & TECHNOLOGY				
Progra	amme	B.Tech			
Subje	ct Name	Remote Sensing, GIS and GPS			
Subje	ct code	OSCI103			
Learni	ing Outcome:				
After s	successful completion	n of the course, student will be able to			
•	Apply principles of	remote sensing in engineering.			
•	Demonstrate appli	cations of GIS in engineering domain.			
•	Illustrate application	on of GPS in engineering domain.			
Syllab	us - Theory				
Unit	Content		Hrs		
1	Remote Sensing:		10		
	Definition, sources	of energy, electromagnetic radiation, interaction with target and			
	atmosphere, conce	pt of signatures, sensors characteristics, satellites, spatial and spectral			
	resolution, digital	image format, digital image processing, visual image interpretation;			
	Data integration, a	nalysis & presentation; Applications.			
2	Geographic Inform	ation System: Concept, components, Data: source, capture,	10		
	processing, analysis	; attribute data management, metadata and spatial data, Applications.			
3	Global Navigation	Satellite System:	10		
	Basics of reference	e system, types of datum, transformation, coordinate systems,			
	mapprojection syst	ems, Navigation satellites systems, Global Positioning System:			
	segments,				
	principles, signal, r	eceivers, positioning methods, code and carrier phase observable,			
	dataprocessing, loc	ation based applications.			
4	Self-Study:	and a studie of the state of th	-		
	The self-study cont	ents will be declared at the commencement of semester. Around			
Defer	10% of the questions will be asked from self-study contents.				
Refere					
1	Bhatt B., Remote Se	ensing and GIS, Oxford University Press.			
2	Reddy, M. A. Remo	te Sensing and Geographical Information System, B S Publication			
3	Chang, K. Introduct	ion to Geographic Information Systems, McGraw-Hill.			
4	Kiefer, L. Remote se	ensing and image interpretation, John Wiley & Sons.			

GANPAT UNIVERSITY				
	FACULTY OF ENGINEERING & TECHNOLOGY			
Progra	amme	B.Tech		
Subje	ct Name	Introduction to Accounting		
Subje	ct code	OSCI104		
Learni	ing Outcome:			
After s	successful completion	n of the course, student will be able to		
•	explore various co	ncepts of financial and cost accounting		
•	develop analytical	skill in accounting and costing		
•	infer regulatory fra	me-work in accounting costing		
•	interpret financial	and cost statements		
•	evaluate the finance	cial performance of enterprises		
Syllab	us - Theory			
Unit	Content		Hrs	
1	Basics of Accountir	ng:	5	
	Accounting Termin	ologies- Assets, Capital, Liabilities, Revenue, Expenses and others;		
	Importance of Fir	nancial Accounting; Book Keeping, Accounting and Accountancy;		
	Accounting Process	s, and Cycle; Users of Accounting Information, Accounting Concepts,		
	Principles and Stan	dards.		
2	Accounting Proced	ure:	5	
	Double Entry Book-	Keeping System – Debit and Credit, Accounting Equation, Approaches		
	of Recording – Trac	litional and Modern, Classification of Accounts, and Rules of Debit and		
-	Credit Entries.			
3	Recording of Trans	actions:	5	
	Source Documents	; Original Book of Entry: Journal/general journal/all-purpose journal,		
	Journal Proper, Sub	sidiary/Secondary Books, Non-Cash Transaction—Purchase Book, Sales		
	DOOK, PUICHASE REL	urn Book, Sales Return Book; Cash Transaction –Cash Book, Petty Cash		
	Accounting Trial Pa	of Entry: Ledger, find Balance and Reclinication of Errors. Error in		
4	Final Accounts:		5	
4	Ohiectives of Final	Accounts Trading Account Profit and Loss Account Balance Sheet	J	
	Closing Entries Tre	atment of Adjustments Practical Problems		
5	Basics of Cost Acco	unting.	5	
J	Definition Scope	Objectives and Significance of Cost Accounting. Its Relationship with	J	
	Financial Accountin	and Management Accounting. Notion and Classification of Cost:		
	Objects, Cost Cent	ers and Cost Units. Elements of Cost – Material Cost, Labor Cost.		
	Expenses. Classifica	ation of Costs – Direct & Indirect Cost. Variable. Fixed and Semi-		
	variable Cost. Prod	luct and Period Cost. Overheads – Factory Overhead. Administration		
	Overhead. Selling a	nd Distribution Overhead: Functional Classification of Cost.		
6	Cost Sheet Analysis	s and Cost -Volume -Profit Analysis:	5	
	Component of Tota	al Cost – Prime Cost, Factory Cost, Office Cost, Cost of Production of		
	Sale, Total Cost, Pro	ofit or Loss; Cost Statement.: Contribution, P/V Ratio, Break-even point		
	in Output, Break-Ev	ven Point in Sales, Margin of Safety, Break-even Analysis, Break-Even		
	Chart.			
References				
1	Soumva Mukhariaa	& Abbik Mukheriee: Financial Accounting L Oxford University Press		
1		Finance Senser Finance for New finance Everything Machine Mac		
2	Frasanna Chandra ,	Finance Sense: Finance for Non-finance Executives, MCGraw Hill		
		halance cheet Outard & IBU Dubliching Co. Dut 1td		
3	ILU, HOW to read a	Dalance Sneet, Oxford & IBH Publishing CO PVT. Ltd		
4	J. K. Mitra, Cost and	d Management Accounting II, Oxford University Press		

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Prog	Programme M.Tech		
Subj	ect Name	Industrial Safety	
Subj	ect code	OSEE101	
Lear	ning Outcome:		
On s • To fa • To h • To p	uccessful complet amiliarize students elp students to lea rovide wide expos	ion of the course, the students will be: s with powers of inspectorate of factories. arn about Environment act 1948 and rules framed under the act. sure to the students about various legislations applicable to an industrial unit	
Sylla	bus - Theory		
Unit	Content		Hrs
1	Statutory auth processes, welt 1950 under Sa 2005.	orities — inspecting staff, health, safety, provisions relating to hazardous fare — special provisions — penalties and procedures-Tamilnadu Factories Rules fety and health chapters of Factories Act 1948 - Tamilnadu safety officer rules	13
2	General powers Pollution-Biome (Regulation and Objection certi Water Act 1974 and functions o	s of the central government, prevention, control and abatement of environmental edical waste (Management and handling Rules), 1989-The noise pollution d control) Rules, 2000- The Batteries (Management and Handling Rules) 2001- No ficate from statutory authorities like pollution control board. Air Act 1981 and 4. Central and state boards for the prevention and control of air pollution powers of boards – prevention and control of air pollution.	8
3	Indian Boiler (A vehicle rules, t workman comp handling and t 1996., Petroleu (management)	Amendments) Act 2007, static and mobile pressure vessel rules (SMPV), motor the Mines and Minerals (Development & Regulation) Amendment Act, 2015, pensation act, rules – electricity act and rules – hazardous wastes (management, rans boundary) rules, 2008 - the building and other construction workers act im rules, Gas cylinder rules 2016, Explosives Act 1884 – Pesticides Act – E waste rules 2016.	8
4	Occupational S safety work act Elements.	afety and Health act of USA (The William- Steiger's Act of 1970) – Health and t (HASAWA 1974, UK) – OHSAS 18000 – ISO 14000 – ISO 45001 - Benefits and	7
Refe	rences		
1	Indian School of La	abour education, "Industrial safety and Laws", Chennai, 1982.	

GANPAT UNIVERSITY **FACULTY OF ENGINEERING & TECHNOLOGY** Programme B.Tech Subject Name PCB design and fabrication Subject code OSEE102 Learning Outcome: On successful completion of the course, the students will be: Understand basics of PCB designing. Apply advance techniques, skills and modern tools for designing and fabrication of PCBs. Apply the knowledge and techniques to fabricate Multilayer, SMT and HDI PCB. Understand concepts of Packaging. Syllabus - Theory Unit Content Hrs 8 1 Introduction to Printed circuit board: fundamental of electronic components, basic electronic circuits, Basics of printed circuit board designing: Layout planning, general rules and parameters, ground conductor considerations, thermal issues, check and inspection of artwork. 2 Design rules for PCB: Design rules for Digital circuit PCBs, Analog circuit PCBs, high frequency 4 and fast pulse applications, Power electronic applications, Microwave applications, 3 Introduction to Electronic design automation(EDA) tools for PCB designing: Brief Introduction of 8 various simulators, SPICE and PSPICE Environment, Selecting the Components Footprints as per design, Making New Footprints, Assigning Footprint to components, Net listing, PCB Layout Designing, Auto routing and manual routing. Assigning specific text (silkscreen) to design, Creating report of design, creating manufacturing data (GERBER) for design. 4 Introduction printed circuit board production techniques: Module IV: (6 hrs): Photo printing, 6 film-master production, reprographic camera, basic process for double sided PCBs photo resists, Screen printing process, plating, relative performance and quality control, Etching machines, Solders alloys, fluxes, soldering techniques, Mechanical operations. PCB design for EMI/EMC: Subsystem/PCB Placement in an enclosure, Filtering circuit 5 4 placement, decoupling and bypassing, Electronic discharge protection, Electronic waste; Printed circuit boards Recycling techniques, Introduction to Integrated Circuit Packaging and footprints, NEMA and IPC standards. References 1 Reference material provided by the institute 2 Printed circuit board design , fabrication assembly and testing By R. S. Khandpur, Tata McGraw Hill 2006

		GANPAT UNIVERSITY		
	FACULTY OF ENGINEERING & TECHNOLOGY			
Progr	ramme	B.Tech		
Subject Name		Electrical Estimation and Energy Auditing		
Subject code OSEE103				
Learn	ing Outcome:			
On su	 Draw co Draw co To quote lines. Familiari List the p Determi Explain t Estimate 	etion of the course, the students will be: nventional symbols for various electrical installations. e the relevant IE rules for a given electrical installation, earthing and clearance of s ize the types of wiring. points to be considered for selection wiring. ne the size of wire for internal wiring. the necessity and types of earthing. e the quantity of materials required for earthing.	ervice	
Syllat	Syllabus - Theory			
1	Content For complete syllabus and results, class timetable and more pls download I Study Syllabus App. It's a lightweight, easy to use, no images, no pdfs platform to make students life easier.			
2	Domestic And Industrial Estimate, General requirements of electrical installations for Residential, Commercial and Industrial – Lighting and power sub circuits – Diversity factor for sub circuits – Location of outlets, control switches, main board and distribution boards – Permissible voltage drops and size of wires – Steps to be followed in preparing electrical estimate. Estimate the quantity of material required in Electrical Installation for Small residential building/Flat			
3	Energy Mana Definition, approach-U energy use requirement Electrical sys Electricity bi improvemer of PF capacit	agement & Audit Energy audit- need, Types of energy audit, Energy management (audit) Understanding energy costs, Bench marking, Energy performance, Matching to requirement, Maximizing system efficiencies, Optimizing the input energy cs, Fuel and energy substitution, Energy audit Instruments. Stem: Iling, Electrical load management and maximum demand control, Power factor at and its benefit, Selection and location of capacitors, Performance assessment tors, Distribution and transformer losses. 13	9	
4	For complete syllabus and results, class timetable and more pls download I Study Syllabus App. It's a lightweight, easy to use, no images, no pdfs platform to make students life easier.			
Refer	ences			
1	Electrical De 2011	sign Estimating And Costing K.B.Raina& S.K.Battacharya New age International L	td Reprint -	
2	General Asp 2005	ect Of Energy Management And Energy Audit Bureau of energy efficiency, new D	elhi Second-	

	GANPAT UNIVERSITY				
FACULTY OF ENGINEERING & TECHNOLOGY					
Program	nme	Bachelor of Technology			
Subject Name Advanced Photogrammetry					
Subject	code	OSIT101			
Learnin	g Outcom	ne:			
On co	mpletion	of this course, the student will be able to:			
•	Identify	the pre-mission factors that might affect the quality of photogrammetric products and po	st-		
	mission	measures for evaluating the quality of the delivered product.			
•	Differer	ntiate between the mechanisms and the sensor modeling alternatives of photogrammetric	data		
	acquisit	ion modalities.			
•	Explain	the differences between the various image geo-referencing techniques and its impact on t	he		
	quality	of the final product			
•	Differer	ntiate between image ortho-rectification techniques			
•	Explain	the principles of LiDAR mapping			
Theory	svllabus				
Unit		Content	Hrs		
1.	Ouality	Assurance (OA) and Quality Control (OC) of photogrammetric mapping: flight	07		
	configu	ration, camera calibration, system calibration, precision, and accuracy			
2.	Moderr	digital imaging systems: frame cameras, multi-head frame cameras, and bush-broom	05		
	scanner	S			
3.	Sensor	modeling: physical and replacement sensor models, Image geo-referencing: indirect	06		
	geo-ref	erencing, direct geo-referencing, integrated sensor orientation, accuracy analysis			
4.	Image	matching: cross correlation and least-squares matching, Epipolar geometry,	06		
	Ortho-r	ectification: polynomial rectification, differential rectification, and true orthophoto			
	generat	ion			
5.	LiDAR r	napping: laser principles, system specifications, error sources (random and systematic	06		
	errors),	Quality Assurance and Quality Control (QA/QC), and classification and segmentation of			
	LIDAR d	ata			
Practic	al conten				
Refere	nce Books				
1 Kra	uss. K., [1	993]. Photogrammetry. Volume 1: Fundamentals and Standard Processes. 4 th Edition.			
· Du	· Dummler/Bonn ISBN 3-427-78684-6				
2 Krauss K. [1997] Photogrammetry, Volume 2: Advanced Methods and Applications 4 th Edition					
. Dummler/Bonn. ISBN 3-427-78694-3					
3 Mil	3 Mikhail, E., Bethel, J. and McGlone, J., [2001]. Introduction to Modern Photogrammetry, John Wiley & Sons.				
. Inc	. ISBN 0-4	71-30924-9			
4 Sch	enk, T.,	1999]. Digital Photogrammetry (Volume I): Background, Fundamentals, Automatic Orie	ntation		
. Pro	cedures,	TerraSience. ISBN 0-9677653-1-5			
5 Sha	an, J. and	Toth, C. (editors), [2009]. Topographic Laser Ranging and Scanning: Principles and Proce	essing,		
. CR	C Press, Ta	aylor & Francis Group. ISBN 1-4200-5142-3			

	GANPAT UNIVERSITY				
	FACULTY OF ENGINEERING & TECHNOLOGY				
Progr	amme	Bachelor of Technology			
Subje	ct Name	Social Network Analysis			
Subje	ct code	OSIT102			
Learr	ing Outcom	ne:			
At t	he end of th	e course, Students will be able to-			
	 Develop 	o semantic web related applications.			
	Represe	ent knowledge using ontology.			
	 Predict 	human Behaviour in social web and related communities.			
	 Visualiz 	e social networks.			
Syllab	ous -Theory				
, Unit		Content	Hrs		
1	Introduc	tion: Introduction to Semantic Web: Limitations of current Web - Development of	05		
	Semanti	c Web - Emergence of the Social Web - Social Network analysis: Development of Social			
	Network	Analysis - Key concepts and measures in network analysis - Electronic sources for			
	network	analysis: Electronic discussion networks. Blogs and online communities - Web-based			
	network	s – Applications of Social Network Analysis.			
2	Modelin	g. Aggregating And Knowledge Representation: Ontology and their role in the Semantic	07		
	Web: Or	ntology-based knowledge Representation - Ontology languages for the Semantic Web:	_		
	Resource	e Description Framework - Web Ontology Language - Modeling and aggregating social			
	network	data: State-of-the-art in network data representation – Ontological representation of			
	social in	dividuals - Ontological representation of social relationships - Aggregating and reasoning			
	with soc	ial network data – Advanced representations.			
3	Extractio	on And Mining Communities In Web Social Networks: Extracting evolution of Web	06		
	Commur	nity from a Series of Web Archive - Detecting communities in social networks - Definition			
	of comr	nunity- Evaluating communities - Methods for community detection and mining -			
	Applicati	ons of community mining algorithms - Tools for detecting communities social network			
	infrastru	ctures and communities - Decentralized online social networks , Multi-Relational			
	characte	rization of dynamic social network communities.			
4	Predictir	g Human Behavior And Privacy Issues: Understanding and predicting human behavior	07		
	for socia	al communities – User data management - Inference and Distribution - Enabling new			
	human e	experiences - Reality mining - Context - Awareness - Privacy in online social networks -			
	Trust in	online environment - Trust models based on subjective logic - Trust network analysis -			
	Trust tra	ansitivity analysis - Combining trust and reputation - Trust derivation based on trust			
	comparis	sons - Attack spectrum and countermeasures.			
5	Visualiza	tion And Applications of Social Networks: Graph theory - Centrality - Clustering - Node-	05		
	Edge Dia	agrams – Matrix representation - Visualizing online social networks, Visualizing social			
	network	s with matrix-based representations - Matrix and Node-Link Diagrams – Hybrid			
	represer	tations - Applications - Cover networks - Community welfare - Collaboration networks -			
	Co-Citati	on networks.			
Refe	ence Books	5			
1 Peter Mika, —Social Networks and the Semantic Web , First Edition, Springer 2007					
2 E	2 Borko Furht, —Handbook of Social Network Technologies and Applications , 1st Edition, Springer, 2010.				
3 0	3 Guandong Xu ,Yanchun Zhang and Lin Li, —Web Mining and Social Networking – Techniques and				
a	applications , First Edition, Springer, 2011.				
4 C	ion Goh an	d Schubert Foo, —Social information Retrieval Systems: Emerging Technologies and Applie	cations		
f	or Searching	g the Web Effectively , IGI Global Snippet, 2008.			
5 N	/lax Chevali	er, Christine Julien and Chantal Soulé-Dupuy, —Collaborative and Social Information Ret	rieval		
a	and Access: Techniques for Improved user Modelling , IGI Global Snippet, 2009.				

		GANPAT UNIVERSITY		
		FACULTY OF ENGINEERING & TECHNOLOGY		
Progr	amme	Master of Technology		
Subie	Subject Name E-Resources & E-Publication			
Subie	ct code	OSIT103		
Learn	ing Outcome:			
On co	mpletion of t	his course, the student will be able to:		
	 Understar 	nd the kinds of electronic resources.		
	Familiariz	ze the components of e- resources		
	Learn the	methods of Networks and Browsers		
	Receive k	nowledge on organization of different types of databases		
	Attain the	concent and various types and models of e-nublishing		
Theor				
Linit		Content	Hrc	
	Desis Cours	content		
6.	0. Dasic Concepts of E-Resources: E-Resources: Definition, Concept - Types: Electronic Thesis and Ub			
	Structure	f Frequerces – File Formats: HTML DDF Word Images		
7	E Posourco	s and Services - File Formats. File Port, Word, images	06	
7.	E-Resource	S and Services. E-Books – E-Journais - Builetin Board Services (BBS) - Hyper Inedia -	00	
	Shodhgang	a - Evaluation of E-resources and services - consolition services - informer -		
8	Network a	a nd Internet: Browsers: Google Chrome – Mozilla Firefox – - Microsoft Edge - Internet	06	
0.	Explorer – 9	Safari - Search Engines: Google – Microsoft Bing	00	
9	Database	Support Services: Database Support Services – Types: Analytical database and	06	
5.	Operationa	Database - Scopus and Web of Science – Indian Citation Index (ICI) – Google Scholar	00	
	operationa			
10.	E-Publishin	g: Definition – Concept – Process – Types – Models – Advantages and Disadvantages	06	
Refer	ence Books			
1.	Atwood, R. T	he net grows. Internet world, 10, Sept. 1996. pp. 30 – 32.		
	Gilder, G. Lif	e after television, New York: WW Norton, 1994		
2.	2. Herman and Swiss T, eds. The World Wide Web and contemporary cultural theory. New York. Routledge,			
	2000			
3	Jones S G. ed	d. Virtual culture: Identity and communication in cyber society. London. Sage publications,	1997	

GANPAT UNIVERSITY

FACULTY OF ENGINEERING & TECHNOLOGY

Programme	B.Tech
Subject Name	Computer Application in Marketing
Subject code	OSIT104

Learning Outcome:

On successful completion of the course, the students will be:

- Develop understanding of Web- based Commerce and equip them to assess e-commerce requirements of a business.
- Develop e-business plans and to interact with various IT professionals who may be developing ecommerce applications.

Syllabus - Theory

-		
Ur	it Content	Hrs
1	 Introduction to Electronic Commerce: Meaning, nature and scope, Business application of e-commerce, Global trading environment and adopting of ecommerce, Evolution of World Wide Web. Future of Web. Business Models of E-Commerce: B2B, B2C, B2G and other models of ecommerce, applications of e-commerce to supply chain management 	7
2	Electronic Payment System: Types of payment systems –e-cash and currency servers, e-cheques, credit cards, smart cards, electronic purses and debit cards, Operational, credit and legal risk of e-payment, Risk management options for e-payment systems, Set standards.	8
3	 Security Issues in E-Commerce: Risks of e-commerce, Types and sources of threats, Protecting electronic commerce assets and intellectual property, Firewalls, Client server network security, Data and message security, Security tools, Digital identity and electronic signature, Encryption and concepts of public and private key infrastructure, Risk management approach to e-commerce security. International cyber laws, cyber laws, Aims and salient Provisions, Cyber laws in India and their limitations, Taxation and e-commerce, Ethical Issues in ecommerce. 	8
4	Introduction to tally: Features of tally, creation of company by tally, preparation of balance sheets.	7
Re	ferences	
1	Laudon, Kenneth C. and Carol Guercio Traver (2002) E-commerce: business, technology, society. (Ne : Pearson Educatin).	w Delhi
2	Awad, Elias M. (2007), Electronic Commerce: From Vision to Fulfillment (New Delhi : Pearson Education)	
3	Kalakota, Ravi and Marcia Robinson (2001). Business 2.0: Roadmap for Success (new Delhi : Pearson Education).	
4	Smith, P.R. and Dave Chaffey (2005), eMarketing eXcellence; The Heart of eBusiness (UK : Elsevier Lt	d.)

GANPAT UNIVERSITY						
	FACULTY OF ENGINEERING & TECHNOLOGY					
Progra	imme	M.Tech				
Subjec	t Name	Academic Research & Report Writing				
Subjec	t code	OSIT105				
Learni	ng Outcome:					
On com •	pletion of this course Develop understandi a business Develop e-business p applications.	, the student will be able to: ng of Web- based Commerce and equip them to assess e-commerce requireme plans and to interact with various IT professionals who may be developing e-com	nts of 1merce			
Syllab	us - Theory T		r			
Unit	Content		Hrs			
1	Introduction 6 Importance of report writing in academics and research. Various kinds of academic and research activities. Necessity of report writing for achievement of academic and research goals. Various kinds of reports / presentations. Characteristics of academic and research reports / presentations.					
2	2 Research paper writing Types of research papers, Structure of research papers, Research paper formats, Abstract writing, Methodology, Results and discussions, Different formats for referencing, Ways of communicating a research paper.					
3	 Thesis writing Structure of a thesis, Scope of the work, Literature review, Experimental / computational details, Preliminary studies, Results and Discussions, Figures and Tables preparation, Conclusions and future works, Bibliography, Appendices. 					
4	4 Tools and Techniques Various word processors, MS Word, Libra-office, Latex etc. Making effective presentations using Power Point and Beamer, Uses of plagiarism detection tools.					
5	5 Miscellaneous Reports Writing research proposals, Writings project proposals, Lecture notes, Progress reports, Utilization reports, Scientific reports					
References						
1	1 A Step-by-Step Guide to Writing Academic Papers, by Anne Whitaker September 2009					
2	2 On Writing a Thesis by C P Ravikumar,IETE Journal of Education, 2000					
3	Microsoft Office 20	16, by Joan Lambert and Curtis Frye, Microsoft Press, Washington98052-6399				
4	LATEX for Beginners, Edition 5, March 2014 Document Reference: 3722-2014					

	GANPAT UNIVERSITY				
	FACULTY OF ENGINEERING & TECHNOLOGY				
Progr	amme	Bachelor of Technology			
Subje	Subject Name Media Culture and Society				
Subje	Subject code OSMC101				
Learn	ing Outcome:	:			
At the	e end of the c	ourse , students will be able to			
•	Interpret a	nd evaluate contemporary global through a critical framework			
•	Recognize	and apply foundational context from the field of communication and media studies to an			
	examinatio	on of the contemporary world			
Theor	ry syllabus	Contract	Line		
Unit		Content	Hrs		
1	Introductio	n:	6		
า	Key concep	as alobal Context	6		
Z	The devel	opment of cultural industries(case studies of cross cultural consumption	0		
	medinalsisa	ation eroticization of the third world united colors of Repetton) Documentaries and			
	TFD talk (e)	(cerpts)			
3	Cultural stu	idies	3		
-	Different pe	erpectives, understanding the folk. Popular practices in India.	-		
	Movie: ruda	ali (excerpts)			
4	Print cultur	<i>.</i> е	6		
	The emerge	ence of the newspaper, print, capitalism and political identify, calendar art and mass	-		
	production	of picture and the middle class ascetic photography and film hoardings.			
	Movie: The	post (Excerpts)			
5	Cinema:		3		
	The conflict	t of tradition forms and morden technology, the nation and the home –persistent			
	themes in h	nindi cinema, the post 90s Hindi cinema imagining the family and NRI cultures			
6	Screening C	Culture:	3		
	Television -	- Issues of modernity and development, discourse of national integration narrative			
	serials, com	nmercial sponsorship, women oriented narratives , the mythological, global and			
7	regional ne	tworks , polities after television, popular music and technology , devotional music	2		
/	Resisting p	ower through the media: itive Literary (for example Deetry speeches social media posting Arab unrising Japlekna)	3		
	Bill etc)	the Literary (for example Poetry, speeches, social media posting, Arab uprising Jamokpar			
Current					
Sugge	Niraniana T	, aianuini, Daudhinand Vival, Dhanahuur, (Eda) Internagatiin Madanitu aultura and Calani	aliana		
T	in indiacalcu	ejaswini, P.sudnir and Vivek, Dhareshwar (Eds) interrogatin Modenity: culture and Coloni tta Seaguil Books	alism		
2	Dwver Rache	el and Christopher niney (eds) Plesure and the nation New delhi Oxford University Press			
3	Grossberge.	L.C. Nelson and P.Treicher(eds)Culture studies London			
4	Singhal, anv	ind and Rogers Everett(Eds) India Communication Revolution : From Bullockcarts to cyber	r marts		
	New delhi Sa	age			
5	Edgar , Andr	ew and Peter Sedgeick(eds) key concepts in culture studies London routledge			
6	Kapur,Geeta	when was modernism Essays on Cotempory culture practice New delhi Tulika			
7	Prasad Made	nava Ideology of Hindi cinema New delhi OUP			
8	Srivatsan R.	conditions of visibility Calcutta stree			

		GANPAT UNIVERSITY		
		FACULTY OF ENGINEERING & TECHNOLOGY		
Progr	amme	Bachelor of Technology		
Subje	Subject Name FPGA based VLSI Design			
Subje	ct code	OSMC102		
Learn	ing Outcome:			
The s	yllabus aims t	o test the student's ability to:		
•	Design diff	erent combination and sequential design circuits		
•	Classify and	d Compare the architecture of programmable logic devices		
•	Implement	digital circuits on reconfigurable hardware using Verilog		
•	Apply the o	concepts of finite state machines for design of synchronous digital circuits		
Theo	ry syllabus			
Unit		Content	Hrs	
1	Basics of di	gital System design	2	
	Introductio	n to digital systems , Digital system Design flow , Area under Digital Design		
2	Simple Pro	grammable logic devices	5	
	Read –Only	Memory (ROM) and variant , Programmable array Logic , Programmable Logic arrays		
3	Complex Pr	ogrammable Logic Device	5	
	CPLD Archit	ectures, FPGA Architectures , FPGA Programming Methods		
4	Harware D	escription Language	2	
	Requireme	nts Oof HDL, HDL Properties, Types of HDL and supported CPLDs Lexial conventions, data		
	types system	m tasks, compiler directives Modules and Ports, Module definition, Port Declaration,		
	connecting	Ports, Hierarchical name		
5	Gate Level	and Data Flow style Of Modeling	3	
	Modeling u	sing basic Verilog gate primitives , description of and or and buf/not typegates ,rise,fall		
	and turn of	f delays min max and typical delays , continuous assignments , delay specification ,		
	expression	, operators, operands, operator types		
6	Behavioral	and structural Modelling	9	
	Structured	procedures, initial and always, blocking and non-blocking statements, delay control,		
	generate a	statement , event control, condition statement, Multiway branching , Loops Sequential		
	and paralle	l blocks.		
7	Finite State	Machine and Implementation	4	
	Melay Mac	hine, Moore Machine, Over lapped and Non Over lapped sequence detectors, FSM		
	Based desig	gn on FPGA		
Text	Books			
1	1 Charles Routh, Lizy Kurian, Beyong Kil Lee, "Digital system design Using Verilog", Cengage Learning			
2	2 Stephen Brown, Zvonkoc Vranesic, "Fundamental Of Digital Logic with Verilog Design" Tata Mc Graw Hill			
3	3 Sunggu Lee, "Digital Logic Design using Verilog," State machine & Synthesis for FPGA," Cengage Learning			
4	Advanced di	gital Design Verilog HDL – Michel D.cilettin PHI		
5	Verilog HDL-	-Samir Palnikar, Pearson Education		

	GANPAT UNIVERSITY					
	FACULTY OF ENGINEERING & TECHNOLOGY					
Progr	Programme Bachelor of Technology					
Subje	ct Name	Advanced Instrumental Techniques				
Subje	ct code	OSMC103				
Learr	ing Outcome:					
The s	yllabus aims t	o test the student's ability to:				
•	Know Nucl	ear Magnetic Resonance spectroscopy				
•	Knowledge	of Thermal Methods of Analysis				
•	Calibration	and validation of Instruments				
Theo	ry syllabus					
Unit		Content	Hrs			
1	Nuclear Ma	agnetic Resonance spectroscopy:	8			
	Principles o	f H-NMR and C-NMR, chemical shift, factors affecting chemical shift, coupling constant,				
	Spin – spin	coupling, relaxation, instrumentation and applications				
	Mass Spect	rometry- Principles, Fragmentation, Ionization techniques – Electron impact, chemical				
	ionization,	MALDI, FAB, Analyzers-Time of flight and Quadrupole, instrumentation, applications				
2	Thermal M	ethods of Analysis:	8			
	Principles, i	nstrumentation and applications of Thermogravimetric Analysis (TGA),				
	Differential	Thermal Analysis (DTA), Differential Scanning Calorimetry (DSC)				
	X-Ray Diffra	action Methods:				
	Origin of X-	rays, basic aspects of crystals, Xray Crystallography, rotating crystal technique, single-				
	crystal diffr	action, powder diffraction, structural elucidation and applications.				
3	Calibration	and validation-as per ICH and USFDA guidelines:	6			
	Calibration	of following Instruments Electronic balance, UV-Visible spectrophotometer,				
	IR spectrop	hotometer, Fluorimeter, Flame Photometer, HPLC and GC				
4	Radio imm	une assay: Importance, various components, Principle, different methods, Limitation	6			
	and Applica	itions of Radioimmunoassay				
	Extraction	techniques: General principle and procedure involved in the solid-phase extraction and				
_	liquid-liquid					
5	Hyphenate	d techniques-LC-MS/MS, GC-MS/MS, HPTLC-MS.	2			
Text	Books					
1	Instrumenta	l Methods of Chemical Analysis by B.K Sharma				
2	Organic spec	troscopy by Y.R Sharma				
3	Text book of	Pharmaceutical Analysis by Kenneth A. Connors				
4	Vogel's Text	book of Quantitative Chemical Analysis by A.I. VogelPractical Pharmaceutical				
	Organic Chei	mistry by I. L. Finar				
5	Chemistry by	/ A.H. Beckett and J.B. Stenlake				
6	Organic spec	troscopy byWilliam Kemp				
7	Quantitative	Analysis of Drugs by D. C. Garrett				
8	Quantitative	Analysis of Drugs in Pharmaceutical Formulations by P. D. Sethi				
9	Spectrophot	ometric identification of Organic Compounds by Silverstein				

		GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY			
Programme Bachelor of Technology					
Subje	ct code	OSMC104			
Subje	ct	International Taxation			
Name					
Learn	ing Outco	me:			
On c	ompletio	n of this course, the student will be able to:			
•	Unders	standing of international taxation			
•	Create	strategies for the structuring of cross-border transactions to reduce your overall tax bi	11		
•	Advise	someone in structuring the global operations of a business to save tax.			
•	Optimi	ze tax liability for cross-border transactions.			
Theor	y syllabu	5			
Unit		Content	Hrs		
1.	Introdu	ction to international taxation and transfer pricing	03		
2.	Legal fr	amework for international taxation. Arms-Length Pricing and methods, Comparable	08		
	uncontr	olled price method (CUP), Resale Price Method, Cost-Plus Method, Transactional net			
	Margin	method(TNMM),Profit Split Method, How to choose an appropriate method, Role of			
	an adva	nced pricing agreement, Associated Enterprises, Permanent Establishment, Taxation			
	of Forei	gn Companies_ PoEM Rules, Safe Harbour Rules, Place of Effective Management			
	Sample	Transfer Pricing Agreement, International Tax Issues in Secondment Arrangements			
3.	International tax planning International tax structuring for global businesses, Case study of				
	India - N	Auritius DTAA, How Foreign Tax Credit Works, International Tax Structuring and Tax			
	Havens,	Tax Structuring, Base Erosion and Profit Shifting (BEPS), Why the amended Mauritius			
	India D1	India DTAA will not impact foreign investment, General Anti-Avoidance Rule (GAAR)			
4.	Penaltie	es & Dispute resolution Penalties under Indian domestic law Tax avoidance and tax	10		
	evasion	General Anti-Avoidance Rule (GAAR) and Special Anti-Avoidance Rule FATCA			
	Informa	tion exchange provisions International cooperation under DTAAs Tax Information			
	Exchang	e Agreements (TIEAAs) Case study of Switzerland's secrecy norms under DTAAs How			
	to safe	guard against future regulatory risks - Authority for Advanced Rulings (AAR)			
	Settlem	ent of disputes with tax authorities Transfer pricing disputes in offshore jurisdictions			
Practi	cal conte	nt			
Refer	ence Boo	ks			
1.	'Interna	tional Taxation The Indian Perspective" : By Nigam Nuggehalli · 2019			
2.	"Interna	itional Taxation Handbook Policy. Practice, Standards, and Regulation" by Colin Read	. Greg N.		
	Gregoriou. Elsevier Science				
3.	Principle	es of International Taxation By Angharad Miller, Lynne Oats · 2012			
4.	4. 'International Business Taxation" A Study in the Internationalization of Business Regulation By Sol				
	Picciotto · 1992				
5.	"Interna	itional Tax as International Law" An Analysis of the International Tax Regime By Reuv	en S. Avi-		
	Yonah ·	2007			
6.	Internat	ional Financial Management by V.K. Bhalla (Anmol Publications)			
7.	Financia	l Management by Parasanna Chandra (Tata McGraw – Hill Publishing)			

FACULTY OF ENGINEERING & TECHNOLOGY				
Programme Bachelor of Technology				
Subject Name Yoga and Meditation				
Subject code OSMC105				
Learning Outcome:				
On completion of this course, the student will be able to:				
• To achieve overall health of body and mind.				
To overcome stress				
 Concentration techniques to overcome mental restlessness; 				
Theory syllabus				
Unit Content H	Hrs			
1. Introduction to Yoga: Meaning and Definition of Yoga, Astana Yoga: Yama, Niyama, Asana,	03			
Pranayama, Prathyahara, Dharana, Dhyana, Samathi. Concept of Yogic Practices: Principles -				
Breathing -Awareness- Relaxation. SequenceCounter pose – Time – Place – Blanket – Clothes –				
Bathing - Emptying the bowels – Stomach – Diet - No straining – Age - Contra-indications -				
Inverted asana – Sunbathing.				
2. Yam and Niyam. Do's and Don't's in life. Ahinsa, satya, astheya, bramhacharya and aparigraha	07			
Shaucha, santosh, tapa, swadhyay, ishwarpranidhan				
3. Loosening exercises: Techniques and benefits.Asanas: Types- Techniques and Benefits.	05			
Yogasans and its values. Surya namaskar: Methods and benefits. Pranayama: Types- Methods				
and benefits. Nadis : Meaning, methods and benefits. Chakras: Major Chakaras - Benefits of				
clearing and balancing Chakras.				
4. Fundamentals of Meditation: Introduction to Meditation, Basic principles of meditation,	03			
Happiness & Meditation Benefits of Meditation Philosophy, physiology, Medicine				
5. Concentration and Meditation : Definitions of concentration The power of concentration Aids (06			
of concentration ,Patience in concentration Objects for concentration ,Benefits of concentration				
6. The five Concentrations Practice: Parthivi Dharana (concentration on earth) Ambhasi Dharana	06			
(concentration on water) Agnevi Dharana (concentration on fire) Vayvive Dharana				
(concentration on air) Akashi Dharna (concentration on ether)				
Practical content				
Reference Books				
1. 'Yogic Asanas for Group Tarining-Part-I" :Janardan Swami YogabhyasiMandal, Nagpur				
2. "Rajayoga or conquering the Internal Nature" by Swami Vivekananda, AdvaitaAshrama (Publication				
Department), Kolkata				
3. Authors Guide (2015), International Day of Yoga, Common Yoga Protocol, New Delhi: Ministry	of			
AYUSH, Government of India				
4. Practical yoga Psychology by Bihar School of Yoga				
5. Yoga &Mental Health by R. S. Bhogal				
6. Concentration and Meditation by swami SivanandaSaraswati				

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Programme Bachelor of Technology			
Subje	ct Name	Concept and use of MS word, MS excel & MS power point	
Subje	ct code	OSME101	
Learn	ing Outcome:		
The s	yllabus aims t	o test the student's ability to:	
•	Acquire ad	equate knowledge of the basic concepts of Microsoft office.	
•	Understan	d the basic knowledge & use of MS word, MS excel & MS power point	
Syllab	ous - Theory		
Unit		Content	Hrs
1	Introductio	n to MS Office:	3
	Basics, Feat	ures, Installation procedure, Application.	
2	Microsoft v	vord:	9
	Word Basic	s, Features, Work with Text, Format Documents, Work with Text Objects Work with	
	References		
3	Microsoft E	ixcel	9
	Excel Basic	s,Features, Work with Cells and Worksheets, Calculate Your Data, Format your	
	Workbook,	Add Charts and Graphics, Analyze your Data	
4	Microsoft p	ower point	9
	PowerPoint	Basics, Features, Create Presentations, Insert and Modify Text, Work with Graphics	
	and Media,	Final Preparations, Deliver a Presentation	
Text E	Books		
1	Microsoft Of	fice 2019 Inside Out : BY Joe Habraken	
2.	Learn to use	computer, MS Word, Powerpoint and Excel: First Edition) Kindle Edition by Inderjeet Sin	gh

		GANPAT UNIVERSITY	
		FACULTY OF ENGINEERING & TECHNOLOGY	
Progr	amme	Bachelor of Technology	
Subje	Subject Name Introduction to Mechatronics		
Subje	ct code	OSME102	
Learn	ing Outcome:		
The s	yllabus aims t	o test the student's ability to:	
•	Understand	d Mechatronics system.	
•	Understand	d principles of sensors, actuators its characteristics, interfacing with controller.	
•	Learn and h	nave hands-on experience of Mechatronics and Control.	
Syllab	us- Theory		
Unit		Content	Hrs
1	Introductio	n:	2
	Basic conce	pts of Mechatronics, Examples and applications.	
2	Sensors:		8
	Performanc	e terminology, Static and dynamic characteristic, Touch sensor, Color sensor,	
	Ultrasonic s	ensor, Encoder	
3	Actuators:		8
	Dc motor m	nodeling, Dc motor steady-state operations, Pulse width modulation, Solid-state	
	switches, H	-circuits, Dc motor dynamics operations, Speakers	
4	Signal Cond	litioning:	8
	Basic conce	ept, some basic operational amplifier circuit design, sampling, A/D converters, D/A	
г	Converters,		7
Э	Relays and	nanical Drives: Salanaida Stannar Matara DC brushad matara DC bruchlass matara DC sanva	/
	motors 4 a	undrant some drives DM/M's Dulse Width	
	11101013, 4-4		
Text I	Books		
1	Introduction	to Mechatronics By Appukuttan, Oxford	
2	Mechatronic	s Electronics Control Systems in Mechanical and Electrical Engineering By W Bolton, Pea	rson.
3	Mechatronic	s Principles concepts & Applications By N.P.Mahalik, Mc Graw Hill	
4.	Introduction	to Mechatronics and Measurement by David G. Alciatore, Michael B. Histand,	
	Systems, 4th	Edition, McGraw Hill, 2012, ISBN-13: 978-0-07-338023-0	

		GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING & TECHNOLOGY			
Progr	Programme Bachelor of Technology				
Subje	Subject Name Cryogenics Engineering				
Subje	ct code	OSME103			
Learn	ing Outcome:				
The s	/llabus aims t	o test the student's ability to:			
٠	To present	a problem oriented in depth knowledge of Cryogenic Engineering			
•	To underst	and concepts and methods behind Cryogenic Engineering			
Syllab	us - Theory				
Unit		Content	Hrs		
1	Introductio	n:	8		
	Introduction	n, Properties of engineering materials at cryogenic temperatures, mechanical			
	properties,	thermal properties, electric & magnetic properties, super conducting materials,			
	thermo ele	ctric materials, composite materials, properties of cryogenic fluids, super fluidity of			
	He3 & He 4				
2	Cryogenic i	nsulation:	8		
	Cryogenic	nsulation - expanded foams, gas filled & fibrous insulation, vacuum insulation,			
	evacuated	powder & fibrous insulation, opacified powder insulation, multilayer insulation,			
า	Application		6		
5	Application	s of cryogenic systems.	0		
	diodes sp	active devices such as bearings, motors, cryotrons, magnets, D.c. transformers, tunner			
	nreservatio	n and industrial applications, nuclear propulsions, chemical propulsions			
4	Cryogenic R	Pefrigeration System:	8		
	Ideal isothe	ermal and reversible isobaric source refrigeration cycles. Joule Thomson system.	U		
	cascade or	pre-cooled joule-Thomson refrigeration systems, expansion engine and cold gas			
	refrigeratio	n systems,			
Text E	Books				
1	Cryogenic Sy	stems, Barron, McGraw Hill Book Co			
2	Cryogenic sys	stems, R F Barron, Oxford University Press,			
3	Miniature re	frigerators for cryogenic sensors and cold electronics, Graham Walker, Clarendon Press,	1989		
4	Cryogenic te	chnology & applications, A R Jha, Butterworth-Heinemann, 2006,			
5	Cryogenic pr	ocess engineering, Thomas M Flynn, Informa Health Care, 2004			

		GANPAT UNIVERSITY				
	FACULTY OF TECHNOLOGY					
Progr	Programme Bachelor of Technology					
Subje	ect Name	Piping Design Engineering				
Subje	ct code	OSME104				
Learr	ing Outcome					
The s	yllabus aims t	o test the student's ability to:				
•	To present	a problem oriented in depth knowledge of Piping Design Engineering				
•	To underst	and concepts basic underground piping system to chemical transfer and carrying oth	er			
	fluid					
•	To equip st	udents with skills, matching up with the requirement of the industry.				
Theo	ry syllabus					
Unit	Content		Hrs			
1	Introductio	n:	10			
	Introductio	n, Piping Fundamentals, ASME Codes & Standards, Pipe Fittings, Flanges, Valves,				
	Special Eler	nents, Mechanical/Process Equipment's, Flow Diagrams, Piping Specifications,				
	Piping & Eq	uipment Layout, Piping Isometrics, Piping Spools, Pipe Supports.				
2	Piping & Pi	peline Systems Design:	6			
	Pressure De	esign of Process Piping Systems & Pipelines, Hydraulic Design of Liquid Piping				
	Systems &	Pipelines.				
3	Pipe Stress	Analysis:	8			
	Introductio	n, Pipe Span Calculations, Expansion Loops & Expansion Joints, Layout Solutions for				
	Weight, The	ermal, & Wind Loads, Sustained Loads, Flexibility Analysis using Code Equations,				
	Occasional	Loads				
4	Software S	tatic Analysis:	4			
	Software ba	ase practices.				
Text	Books					
1	Introduction	to Pipe Stress Analysis by Sam Kannapan				
2	PROCESS PL	ANT LAYOUT AND PIPING DESIGN by Hunt and Bausbacher				
3	THE FUNDAM	VIENTALS OF PIPING DESIGN by Peter Smith				
4	PIPE STRESS	ENGINEERING by Peng				
5	A Guide to P	iping Design and Engineering By Anuj Bhatia				

GANPAT UNIVERSITY						
FACULTY OF TECHNOLOGY						
Progr	Programme Bachelor of Technology					
Subje	Subject Name Power Plant Design					
Subje	ct code	OSME105				
Learn	ing Outcome:					
At the	e end of the c	ourse , students will be able to				
•	To study te	echnical requirements and economic principles related to design of power plant, elect	rical			
	systems, sv	witchyards				
•	To learn ab	pout power plant design guidelines				
Theo	ry syllabus					
Unit	Content		Hrs			
1	Energy Sou	rces and electric power generation Renewable and non-renewable energy sources	6			
	– Technolog	gy of geothermal, tidal, wind, solar thermal, solar photovoltaic, thermal,				
	combustion	n, biothermal, combined cycle, gas turbine and hydro ,Operational characteristics of				
	each of the	technologies in power system on the basis of reliability, forced and scheduled				
	outages, av	vailability, on-grid and off-grid operation, operating range, maintainability				
2	Integrated	System Planning in design approach Load forecast, system expansion planning,	4			
	load uncert	ainties, system security, balancing load, reserve capacity, spinning reserve. Different				
	technologie	es for stable system operation, benefits of interconnection of regional utilities				
3	Hydro Pow	er plant design Power Plant sitting, hydro-power plant selection, hydro-power plant	6			
J	design guid	elines civil structures and mechanical equipment location and selection of civil	Ū			
	structures	Run of river (ROR) Pondage run of river (PROR) Reservoir and Pumping station –				
	component	ts operation and characteristics. Discharge exceedance (O) Plant size and unit size				
	turbing sele	ection minimum river discharge and environmental mitigation measures of hydro-				
	projects	ection, minimum nver discharge and environmental mitigation measures of hydro-				
4	Floctric cyc	tom design of a nower Electrical Single Line diagram, device symbols and numbers	1.4			
4	concretor of	tern design of a power electrical single line diagram, device symbols and numbers,	14			
	generatora	and transformer schemes, scheme selection, Generator and transformer				
	specificatio	in, operation and maintenance viewpoint, Governor and Excitation system, mode of				
	operation,	brushiess and static excitation, Protection systems for generator and transformer in				
	different ty	pes of plants, generator neutral grounding, protection standards, LV switchgear and				
	station serv	vice, battery characteristics and battery charger operation, fire-fighting, HV and MV				
	Switchgear	in power plants, HV switchyard, Switchyard scheme, bus layout, auxiliary and				
	ancillary sys	stems Fault level calculation, Earthing system design of power station and sub-				
	station, Pro	otection system design of generator Switchyard and synchronizing scheme, Power				
	evacuation	& transmission line selection				
6		6				
Sugge	ested Book Re	ererences				
1	Engineering	and Design of Hydro electric Power Plants – US Army Corps of Engineers				
2	Technical Ma	anual – Electrical Power Plant Design – Department of the US Army.				
3	Guide for Co	ntrol of Hydroelectric Power plants – IEEE No. 1010-1987				
4	Guide for sat	fety in AC substation grounding – IEEE No. 80-2000.				
5	Wilenbrock a	and Thomas 'Planning Engineering and Construction of electric Power Generating Faci	lities"			
	John Wiley a	ind Sons				
6	Marsh 'Econ	omics of Electric Utility power Generation "Clarendon Press				
7	Dr.P.C. Sharr	na "Power Plant Engineering" S.K. kataria and Sons				
8	Srivatsan R.	conditions of visibility Calcutta stree				
9	Generation a	and Economic Considerations – J.B. Gupta				
10	Power Plant	Engineering – AK Raja, Amit Prakash Srivastava, Manish Dwivedi				

		GANPAT UNIVERSITY			
	FACULTY OF ENGINEERING & TECHNOLOGY				
Programme B.Tech Marine Engineering					
Subjec	t Name	Leadership Development			
Subjec	t code:	OSMR102			
Learni	ng Outcome:				
On suc	 On successful completion of the course, the students will be: Students will develop critical thinking skills. Students will develop an understanding of change processes and be able to think critically about obstacles to change. Students will understand and be able to use a process for decision making. Students will understand the history of leadership and current leadership theories. In addition, students will understand how leadership models are put into practice personally, locally, and globally. 				
Syllab	us - Theory				
Unit	Content		Hrs		
1	Leadership and Importance of leader can fo oversee body involves pictor interpretation	13			
2	Inclusive Edu Importance transform the global standa	8			
3	History and lessons of history in the context of leadership: This unit is a debate unit where in student's debate whether history can teach or history has not been able to change the world. Students are encouraged to cite examples to support their arguments.				
4	4 Leader of my Choice: 7 Students are asked to prepare an open question for the exams on the leader of their choice. They are asked to explore leadership strengths and styles of the leader they are selecting. The objective of this unit is to make student study beyond the syllabus and define their idea of a leader.				
Books 1. Shar 2. Sure 3. Niss 4. Dru Done:	 Books Recommended: 1. Sham Lal. Indian Realities in Bits and Pieces, Rupa and Co. New Delhi 2. Surendra Kumar & Pradeep Kapur. India of My Dreams, Academic Foundation, New Delhi 3. Nissam, Urlah. India: Economic, Political and Social Issues 4. Drucker, Peter and Maciariello, Joseph: 366 Days of Insight and Motivation for Getting the Right Things Done: Rutledge 				

		GANPAT UNIVERSITY				
	FACULTY OF ENGINEERING & TECHNOLOGY					
Programme Bachelor of Technology						
Subjec	ct Name	POSITIVE PSYCHOLOGY				
Subjeo	ct code	OSPCE101				
Learni	ng Outcome:					
The sy	llabus aims t	o develop the students' ability to:				
٠	To bring an	experience marked by predominance of positive emotions and informing them about				
	emerging p	aradigm of Positive Psychology				
•	 Build rele implication 	vant competencies for experiencing and sharing happiness as lived experience and its s				
Theor	y syllabus					
Unit		Content	Hrs			
1	Introductio	n:	6			
	Introduction	n to Positive Psychology Positive Psychology: Concept, History, Nature, Dimension and				
	scope of Po	sitive Psychology Seligman's PERMA				
2	Positive En	notional States and Processes: Positive Emotions and wellbeing: Hope & Optimism,	6			
	Love The Positive Psychology of Emotional Intelligence Influence of Positive Emotions					
3	Strengths a	nd Virtues:	5			
	Character	Strengths and Virtues Resilience in the phase of challenge & Loss Empathy and				
	Altruism.					
4	Happiness:		8			
•	Introductio	n to Psychology of happiness, wellbeing and scope. Types of happiness- eudemonic	C C			
	and Hedoni	c History of Happiness, Theories, Measures and Positive correlates of happiness Traits				
	associated v	with Happiness Setting Goals for Life and Happiness				
5	Forgiveness	and Gratitude:	5			
	Forgivenes	s and Gratitude Personal transformation and Role of suffering Trust and Compassion				
Text B	ooks					
1	Linley, P.A. a	nd Joseph, S. (2004), Positive Psychology in Practice, New York: John Wiley and Sons.				
	• Peterson, C	C. (2006), Positive Psychology, New York: Oxford University Press. Goleman & Daniel, Emo	otional			
	Intelligence					
	 Snyder, C 	.R., Lopez, S.J. & Pedrotti, J.T. (2011): Positive Psychology: The Scientific and Pr	actical			
	Explorations	Of Human Strengths (2nd Ed). Sage Publication, Inc.				
	 Tal Ben-Sha 	ahar (2007) Happier: Learn the Secrets to Daily Joy and Lasting Fulfilment.				

		GANPAT UNIVERSITY			
	FACULTY OF ENGINEERING & TECHNOLOGY				
Progra	amme	Bachelor of Technology			
Subject Name Contributory traits as engineer					
Subje	ct code	OSPCE102			
Learn	ing Outcome:				
The sy	/llabus aims t	o develop the students' ability to:			
•	Understand	d basic concepts of contributor			
•	Imbibe and	I improve the level of ethics in professional work as engineer			
Theor	y syllabus				
Unit		Content	Hrs		
1	Introductio	n:	4		
	Meaning of	contributor, Difference between contributor and non-contributor, Essential qualities			
	of contribut	tors.			
2	Qualities as	s Value creator:	6		
	Efficient ha	rd working, Valuable difference e.g. innovation, concentrating on most appropriate			
	action for m	nanufacturing industry and user			
3	Level of en	gagement:	4		
	Complexity	of work, correlation of work, rapid change in technologies, importance of quick and			
	in-depth learning,				
4	Involvemer	nt & team work:	6		
	Constant c	hange in required work type, need and importance to work in team of various			
	department	t of organisation, sustainable and common goals, attitude for working for the			
	organisatio	n than for self.			
5	Humanistic	approach & compassion	4		
	Humanistic	approach to the given task; Need of responding the concerned stack holder(team			
	member, u	ser) as a human being; Humanistic customer centric approach and its importance			
	while desig	ning products, solutions and services; Correlation of humanistic customer centric			
	approach fo	or successful outcome			
6	Conduct an	d Trust correlation	6		
	Introductio	n to the conduct and trust; Trust among team members, higher level authorities and			
	end users; I	mportance of people with good conduct; Advantages of being trusted.			
Text B	Books				
1	Contributor	Personality Development - A Comprehensive Approach By Dr. R. S. Patel, Dr. A. K. Adhik	ary:		
	Publisher: Te	chnical Publications			

		GANPAT UNIVERSITY		
FACULTY OF ENGINEERING & TECHNOLOGY				
Progra	bgramme Bachelor of Technology			
Subje	ct Name	HUMAN RESOURCE MANAGEMENT		
Subje	ct code	OSPCE103		
Learni	ng Outcome:			
The sy	llabus aims:			
•	To becon	ne a successful manager of people, students need to understand bel	navior	
	of human	resources in various organizational situations. In a complex world of industry	y and	
	business,	organizational efficiency is largely dependent on the contribution made by	/ the	
	human res	ources of the organization.		
•	The o	bjective of this course is to sensitize students	to	
	various fac	cts of managing people and to create an understanding of the various policies	s and	
	practices o	f human resource management.		
Theor	y syllabus			
Unit		Content	Hrs	
1	Introductio	n:	6	
	Human Res	ource Management Introduction and Scope, HRD-Concept, Need,		
	Human Res	ource Planning-Concept, Process, job design-Concept approaches, job analysis,		
	job descript	tion, job specification.		
2	Human Re	source Procurement: Recruitment. Selection and induction. Training, Training	6	
	phases, Ne	eed Assessment, Establishment, Establishment of Training Objectives, Training		
-	method Leo	cture, case method, Role-playing.		
3	Business in	Basket T- Group, Incident, Syndicate, Evaluation of a training Program. Performance	7	
	measureme	ent and reward systems-introduction, performance drivers, leadership and		
	performanc	ce, reward management performance appraisals. Discipline.		
4	The grievan	ice procedure. Employee compensation-purpose and importance, components. non	7	
	monetary r	ewards, workers participation in Management Employee.		
5	Strategic ch	nallenges for leadership, career management, SHRM Mergers and acquisitions, Case	5	
	study			
Text B	ooks			
	1.Human Res	source & Personal Management, Aswathappa K, TMH N.D.		
	2.Human Res	source Mangement, L.M.Prasad, S.Chand		
	3.Human Res	source Management, V.S.P.Rao, Excel books, N.D		
	4.Internation	nal Human Resource management, Chris Brewster, University Press		

		GANPAT UNIVERSITY		
FACULTY OF ENGINEERING & TECHNOLOGY				
Programme		B.Tech		
Subjec	t Name	General Studies for Civil Services		
Subjec	t code	OSCSBS101		
Learni	ng Outcome:			
On com	pletion of this course, Understand the rich a	, the student will be able to: and diverse culture of India.		
•	Will have knowledge	of current affairs.		
•	Will gain about how	country's economy works.		
•	Will have knowledge	about history of India.		
Syllabı	us - Theory			
Unit	Content		Hrs	
1	CURRENT AFFAIRS National symbols, Profile of India, , Latest inventions on science & technology, Eminent personalities & places in news, Sports & games, Books & authors, Awards & honours, Cultural panorama, Policy on environment and ecology, India and its neighbours, Latest terminology, Appointments, who is who?, Latest court verdicts, public opinion, Political parties and political system in India, Public awareness & general administration, Role of voluntary organizations & govt., Welfare oriented govt. schemes, their utility – Flagship Programmes of Central Government, Mass media & communication			
2	HISTORY AND CULTURE OF INDIA Pre Historic India ,Indus Valley , Vedic Culture ,Sangam Age and Heritage of Tamils ,Jainism ,Buddhism ,Early Political History ,Mauryas and Guptas ,Hindu Revivalism ,Delhi Sultanate ,Bhakti Movement ,Mughal – Impact of British Administration ,Socio Religious Reform Movement – Freedom Struggle ,Dravidian Movement ,Character of Indian Culture – Unity of Diversity ,Development of Science and Technology after Independence.		6	
3	CONSTITUTION Salient features of In Fundamental duties Jammu & Kashmir J government ,Judicia Law-Making Procee Administrative chal administration Elect measures - Central a Voluntary organizat charter –Consumer.	OF INDIA ndian constitution Union, State and territory Citizenship Fundamental rights Union Executive- Union legislature ,State executive and Legislature ,Status of Local ary in India ,Indian federalism ,centre ,state relations dure -Emergency provisions Civil services in India lenges in a welfare state Complexities of district tions Amendments to constitution Anticorruption and State Commission Empowerment of women tions and public grievances redressal Human rights	6	
4	INDIAN ECONON Nature of Indian eco	MY onomy Five year plan models an assessment Land reforms & agriculture	6	

	Application of science in agriculture Industrial growth. Capital formation and investment Role of public sector & disinvestment Development of infrastructure Energy Different sources and development Finance Commission Nithi Ayog National Development Council - National income Public finance & fiscal policy Price policy & public distribution Banking, money & monetary policy Role of Foreign Direct Investment (FDI) WTO globalization & privatization Rural welfare oriented programmes Social sector problems ,population, education, health, employment, poverty HRD ,sustainable economic growth.	
5	INDIA AND WORLD AFFAIRS Indian foreign policy- Foreign Affairs with special emphasis on India's relations with neighboring countries and in the region Defence, national security system and terrorism ,World And Regional organizations and Pacts and Summits - Security and defence related matters Nuclear policy, issues and conflicts International law -The Indian Diaspora and its contribution to India and the World ,India and super powers	6
Refere	ences	
1	Dutt and Sundaram. 2016. Indian Economy. S.Chand and Company New Delhi. Fadia B.L. 2017. In Government and Politics. Sahitya Bhawan, New Delhi. Fadia B.L. 2017. International Relations, Sa Bhawan, New Delhi. India Year Book 2018, Publication Division, New Delhi.	dian hitya
2	Fadia B.L. 2017. Indian Government and Politics. Sahitya Bhawan, New Delhi	
3	India Year Book 2018, Publication Division, New Del	

			GANPAT	UNIVERS	ITY	
FACULTY OF TECHNOLOGY						
Programme Bachelor of Technology		echnology	Branch/Spec.	Information and communication Technology		
Seme	ster	VII		Version	1.0.0.0	
Subje	ct code	OSICT101	Subject Name	Laws and Eth	nics	
Learn	ing Outcome:	:				
The s	syllabus aims	to test the stu	udent's ability to:			
•	Acquire a	dequate know	ledge of the basic	c concepts of	laws	
•	Understar	nd the basic kn	owledge of ethic	s including al	lied regulatory compliance and	
	requireme	ents				
Theo	ry syllabus					
Unit			C	ontent		Hrs
1	Indian Contracts Act, 1872:					8
	Essential elements of a contract, offer and acceptance, Void and voidable agreements,					
	Considerat	tion, legality of	f object and cons	ideration, Ca	pacity of Parties, free consent	
	Quasi-cont	tracts, Conting	ent contracts, Pe	erformance of	f contracts, Discharge of	
	contracts					
	Breach of	Contract and F	Remedies for Brea	ach of Contra	ct	
2	Sale of Go	ods Act, 1930				8
	Definition,	Transfer of	ownership, Con	ditions and	Warranties, Performance of the	
	Contract o	f Sale, Rights o	of Unpaid Vendor	, Auction Sale	es	
3	Negotiabl	e Instruments	Act, 1881			6
	Negotiable	e Instruments	-Characteristics	of Negotial	ble Instruments, Definitions of	
	Promissor	y Note, Bill of	Exchange and C	heque, Diffe	rence between Promissory Note,	
	Bill of Exch	ange and Che	que, Crossing – N	/leaning, Defi	nition and Types of Crossing.	
4	Ethics and	Business				8
	Ethics – M	eaning, Impor	tance, The "Seve	n Principles o	f Public Life" – Selflessness,	
	Integrity, (Objectivity, Ac	countability, Ope	nness, Hones	ity and Leadership, The	
	relationshi	ip between Eth	nics and La, Ethics	s in Business		
Text	Books					
1	FUNDAMEN	ITALS OF LAW	S AND ETHICS: by	/ ANAND KUN	/IAR SHRIVASTAVA	

		GANPAT UNIVERSITY			
		FACULTY OF ENGINEERING &			
D		TECHNOLOGY			
Progr	Programme B.Tech				
Subje	ect Name	Technical Writing			
Subje	ect code	2OS195			
Learr	ning Outcome:				
At the	e end of the course,	students will be able to-			
•	Participate actively	y in writing activities (individually and in collaboration) that model effe	ctive		
	scientific and tech	nical communication in the workplace.	c		
•	Understand how to	b apply technical information and knowledge in practical documents 1	tor a		
	variety of a.) Prof	ressional audiences (including peers and colleagues or management) and		
	b) public audience	28.			
•	Practice the uniqu	ie qualities of professional writing style, including sentence concise	ness,		
	readability, clarity	, accuracy, honesty, avoiding wordiness or ambiguity, previewing, u	ısıng		
	direct order orga	nization, objectivity, unbiased analyzing,			
~	summarizing, col	herence and transitional devices.			
Sylla	bus - Theory				
Unit	Content		Hr s		
1	An Introduction to	Technical Writing	8		
	Technical writing v	s. General writing b. Purpose, importance and characteristics of technical			
	writing, Objectives	of technical writing: Clarity, conciseness, accuracy, organization, ethics,			
	Audience recognition and involvement: High tech audience, low- tech. audience, gender neutral				
	language.				
2	Memorandum		2		
	Objectives, difference	between memos, letters and emails. Criteria and format for writing and			
2	memos.				
5	Criteria and process	on Technical instructions for user's manual	2		
4	Report Writing	s, reclinical instructions for user's manual	5		
-	Characteristics types	and writing of various reports: feasibility reports, inventory report	5		
	mishap report, prog	ress report. laboratory report			
5	Letter- writing		4		
	Business letters-orde	r, complaint, inquiry, Job-applications, Resume Business Proposals 05			
	Types & formats				
			<u> </u>		
6	Graphic representatio	n of Technical Data, SOP writing, Promotional Writings	4		
	troubleshooting pur	e designing , Content writing for websites (For promotional and			
	a oubleshooting pur	poses), writing rifers and inewsiencers			
7	Academic Writing	05	5		
,	Summaries, abstrac	ts and instructions, Case studies on Technical Writing			
Refer	ence Books	6	<u> </u>		

1	SharonJ.GersonandStevenM.Gerson,Technicalwriting-processandproduct,Pearson
	Education Asia.
2	eq:AndreaJ.Ratherford,BasicCommunicationSkills for Technology, PearsonEducationAsia
3	Pfeiffer, W.S. and T.V.S. Padmaja. Technical Communication. Pearson.
4	Muralikrishna and Sunita Mishra. Communication Skills for Engineers. Pearson
5	CharlesW.Knisely and KarinI.Knisely.Engineering Communication. Cengage

		GANPAT UNIVERSITY				
		FACULTY OF ENGINEERING &				
D						
Progr	amme	B. lech				
Subje	ect Name	MATLAB for Engineers				
Subje	ct code	2OS194				
Learn	ning Outcome:					
Upon	course completion,	, a student will be able to:				
•	Use basic comman	nds and graphics in MATLAB.				
•	Apply MATLAB	in solving algebra and calculus problems.				
•	Create simple MA	ATLAB programs in engineering applications.				
Syllab	ous - Theory					
Unit	Content		Hr			
			S			
1	MATLAB basics -	-	5			
	The MATLAB envi	ronment - Basic computer programming - Variables and constants,				
	operators and simpl	e calculations - Formulas and functions - MATLAB toolboxes				
2	Matrices and vector	Drs -	6			
	Matrix and linear algebra review - Vectors and matrices in MATLAB - Matrix operations					
2	and functions in MATLAB					
3	Computer progr	camming –	8			
	algorithms Control	structures (if then loops)				
	MATI AB programm	aing - Reading and writing data file handling - Personalized functions -				
	Toolbox structure -	MATLAB graphic functions				
4	Numerical simul	ations _	5			
	Numerical methods a	and simulations - Random number generation - Montecarlo methods	5			
5	Hands-on session		6			
_	Interactive hands-o	n-session where the whole class will develop one or more MATLAB	-			
	scripts that solve an assigned problem					
Refer	ence Books		I			
	1					
1	MATLAB Getting Sta	arted Guide http://www.mathworks.com/help/pdf_doc/matlab/getstart.pdf				
2	MATLAB Central (sc Newsletters	cript, toolbox, blog, newsgroup) http://www.mathworks.com/matlabcentral/ M	ATLAB			
3	http://www.mathwo	prks.com/company/newsletters				
		GANPAT UNIVERSITY				
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		FACULTY OF ENGINEERING &				
		TECHNOLOGY				
Progr	amme	B.Tech				
Subje	ect Name	Health and Nutrition				
Subje	Subject code 2OS193					
Learn	ning Outcome:					
After	successful complet	ion of the course student will be able to:				
1. Re	emember the fundam	nentals of health and nutrition				
2. Cit	e examples of food l	labelling				
3. De	scribe significance of	of macronutrients and micronutrients				
4. Dis	scuss importance of	functional foods				
5. Exp	plain indicators of n	utritional status				
Syllab	bus - Theory					
Unit	Content		Hr			
1			S			
	Introduction to the	e basic concepts of health and nutrition	4			
2	Nutrition		6			
	Macronutrients: Carbohydrates (including dietary fibers), fats and proteins					
	Micronutrients: Vitamins, minerals, anti-oxidants, gut flora					
	Significance of macronutrients and micronutrients for optimal health					
3	Meal Planning					
	Functional foods: Definition of functional foods, Role of functional ingredients and food in					
	nutrition, Health att	ributes of functional foods				
	• Healmannouleson	nd pregnant women)				
	• Indicators for main	tenance of nutritional status: Nutrition Balance Indicator Satiety				
	Index. Fullness fact	or. Glycemic index and insulin index				
4	Food Labelling (F	ood service management)	10			
	Nutrition FactsPa	nel				
	Serving Size					
	Calories					
	 Ingredients list 					
	Quantitative indic	ations				
	• Food additives					
	• The percent daily value					
	Allergan labelling					
Refer	ence Books					
1	Nutritional Sciences	From fundamental to food. By Michelle McGuireand Kathy Beerman.				
	Publisher: Yolanda	a Cassio. ISBN-13: 978-0840058201				
2	Pressman, Alan H., S	Sheila Buff, and Gary Null. The Complete Idiot's Guide to Vitamins and				
	Minerals. New Yo	rk: Alpha Books.				

3	Focus on Pathophysiology, Barbara A. Bullock and Reet L. Henze Lippincott Williams &
	Wilkins, Philadelphia
4	Lehninger Principles of Biochemistry, 3rd ed London : Macmillan Press Ltd.
5	5. Tortora G.J. and Anagnodokos, N.P. Principles of Anatomy and Physiology (Harper and
	Colling Publishers, New York)
6	Advanced Nutrition: Macronutrients, Micronutrients, and Metabolism By: CarolynD.
	Berdanier, Lynnette A. Berdanier, Janos Zempleni. Publisher: CRC Press.
	ISBN
	9781420055528
7	Functional Foods and Nutraceuticals By: Aluko, Rotimi E. Publisher: Springer
8	B. Srilakshmi. Food science. India, New Age International (P) Limited.
9	Kumud Khanna, Sharda Gupta, Santosh Jain Passi, Rama Seth, Ranjana Mahna & Seema Puri
	. Textbook of Nutrition and Dietetics. India, Elite Publishers.
10	C.Gopalan. Nutritive Value of Indian Foods, India, ICMR publications. University Electives

GANPAT UNIVERSITY						
FACULTY OF TECHNOLOGY						
Programme Bachelor of Technology		Branch/Spec.	Computer Science and Engineering (CBA/CS/BDA)			
Semes	ter	IV		Version	1.1.1.1	
Subjec	t code	2OS119	Subject Name	PROFESSION	AL SKILL BUILDING-II	
Learni	ng Outcome:					
On suc	cessful comp	oletion of the c	ourse the students	will be able to	:	
• :	solve various	questions base	ed on quantitative	ability and logi	cai reasoning.	
•	Handle onese	elf in a given pr	ofessional setting t	hough effectiv	e communication skills	
• 6	ace HR and	Behaviour Inte	rviews			
• \	Write a profe	ssional CV and	further be able to	plan the profil	e development for remaining course	
	•					
• /	Ability to follo	ow and execute	e the code of condu	uct in a profess	sional environment	
• 5	Stand tall in c	corporate with	professional etique	ettes		
Theorem	رميالمهيرم					
Linit	y synabus			ontont		Hrs
1	. Content			2 2		
1	Problems on Permutations and Combinations, Problems on Probability				0	
	Problems on Probability					
	Problems on Stocks and Shares					
	Problems on Calendar					
	Problem Square Root and Cube Root					
	Problem Area and Volume					
-						
2	Logical Rea	soning				6
	Logical Deo	and Argumont	ing			
	Statement	and Argument				
3	Communica	ation Skills				6
-	Learning Co	ommunication	through Role Plays			
	Learning Pe	ersuasion and (Convincing skills			
4	Life Skills [C	orporate Skills]			4
	Campus to	Company				
-	Deveenelity	Development				4
5						4
	Learning HK SKIIIS Profile [CV] Building Workshop					
6	Learning Pr	ofessional Ftig	luettes			2
		2.200.0101 2019				
Text B	ooks					
1						

Refe	Reference Books		
1	Quantitative abilities by Arun Sharma		
2	Verbal and Non-Verbal reasoning by R S Agrawal		
3	The "Art of Winning" by M Ashraf Rizvi		
4	The Magic of Thinking Big by David Schwartz		

GANPAT UNIVERSITY						
FACULTY OF TECHNOLOGY						
Progra	Programme Bachelor of Technology		echnology	Branch/Spec.	Computer Science & Engineering (CBA/BDA/CS)	
Semes	ster	111		Version	1.1.1.1	
Subjec	Subject code 2OS118 Subject Name PROFESSIONAL SKILL BUILDING-I					
Learni	ng Outcome:					
• Fa	ce One- to-O	ne Interview				
• Pre	esent oneself	f [Personality De	evelopment]			
• So	lve various q	uestions based	on quantitative ab	ility, logical rea	asoning and data interpretation.	
• Lea	arn skills invo	lved in develop	ing enriching inter	personal relat	ionships	
• Ha	ndle emotior	ns of largely self	and others			
• Un	derstand the	e necessity and i	mportance of wor	king together	as a team	
• De	al with stress	5		00		
• 4h	le to create a	- a first-hand hio-	data for self			
/10						
Theor	y syllabus					
Unit			C	ontent		Hrs
1	Higher Quantitative Abilities 6			6		
	Problems on Time and Work					
	Problems on Allegation and Mixtures					
	Problems on Partnership					
	Problems o	on Set Theory				
2	Non Verba	l Logical Reason	ing			4
	Coding – D	ecoding				
	Blood Relat	tions				
3	Data Interp	oretations				4
	Tables					
	Pie Charts					
	Bar Chart					
	Line Chart					
4	Life Skills					6
	Learning Ti	me Manageme	nt Skills			
	Learning Te	eam Building Ski	ills			
_	Learning St	ress Manageme	ent Skills			
5	Personality	v Development	(chon)			4
6	Protile [CV] Building [Workshop]			2		
σ	SUIL SKIIIS	torview Eacing	Skille			2
7	Learning Interview Facing Skins 4					Л
/ Tovt D	ooks					4
1	Verhal and N	Ion-Verhal reas	oning by RS Agray	wal		
Refere	ence Books					
1	Quantitative	abilities by Aru	n Sharma			

2	The Magic of Thinking Big by David Schwartz
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GANPAT UNIVERSITY						
FACULTY OF TECHNOLOGY						
Programme Bachelor of Technology		Branch/Spec.	Computer Science & Engineering (CBA/CS/BDA)			
Semes	ter	II		Version	1.1.1.1	
Subjec	t code	20S117	Subject Name	CAREER DEV	ELOPMENT PROGRAM-II	
Learni	ng Outcome:					
On su	ccessful cor	npletion of the	e course the stud	ents will be a	ble to:	
•	Develop a	ind Present Pr	ofessional Preser	ntations		
•	Develop o	liscussion skill	s and further par	ticipate in dis	scussions	
•	Develop F	Reasoning Skil	s in Discussion			
•	Plan prim	ary CV with a	view to develop i	t further in u	pcoming semesters	
•	Asses him	self/herself in	various career re	elated assessr	nents	
Theory	y syllabus					
Unit			C	Content		Hrs
1	Learning F	Presentation S	skills			4
	What is Presentation					
	Key eleme	nts of Present	tation			
	Presentati	on Delivery				
	Rules of a	professional F	Presentation			
	Positive ar	nd Nervous m	aking Factors			
	Tips for dy	namic Deliver	ies			
	Dealing wi	th questions i	n Presentation			
2	Mock Pres	sentation				4
	Delivering	Presentation				
3	Learning O	Group Discuss	ion Skills			6
	What is G	oup Discussio	n?			
	Personalit	y Qualities in	Group Discussion			
	Need of G	roup Discussio	on in Industry / O	rganization		
	Organization's Group Discussion Perspective					
	Aspects of Group Discussion					
Types of Topics						
	Managing	Score Cards in	n Group Discussic	on		
	Technique	s to Imitate G	roup Discussion			
	Do's and D	Oon'ts in Grou	p Discussion			
	Positive ar	d Negative fa	ctors in Group Di	scussion		

4	Profile Development	4
	Learning CV Building Skills	
	Planning Profile Building Factors	
	Execution Strategies for Profile Building	
5	Personality Skills	4
	Learning through Professional Role Plays	
	Learning Situation Reactions	
	Picture & Word Perceptions	
6	Personality Assessments	4
	Career Advancement Assessment	
	Attention Disorder Assessment	
	Comm. Skill Assessment	
	Employability Skills Assessment	
7	Mock Group Discussions	4
	Group Discussion on Factual & Abstract Topics	
Text	Books	
1	Computer System Architecture By M. MorrisMano, Pearson Publlication	
2	Computer Architecture and OrganizationBy Hayes, Tata McGraw Hill	
Refe	rence Books	
1	Structured Computer Organization: By Tanenbaum	
2	Computer Organization and ArchitectureBy Stallings, Pearson Publication	
3	Computer Organization and Design by P. Pal Chaudhury, PHI Publication	

GANPAT UNIVERSITY						
FACULTY OF ENGINEERING & TECHNOLOGY						
Progra	Programme Bachelor of Technology			Branch/Spec.	Computer Science Engineering (CBA/CS/BDA)	
Semes	ter	I		Version	1.1.1.1	
Subjec	t code	2OS116	Subject Name	CAREER DEV	ELOPMENT PROGRAM-I	
Learni	ng Outcome:					
On su	ccessful cor	npletion of the	course the stud	ents will be a	ble to:	
•	Learning b	basics of comm	unication & gran	nmar		
•	Developin	g reading, writ	ing and listening	skills		
•	Identify o	nes flaw in Eng	lish pronunciatio	on and have a	n individual plan to rectify the sam	ıe
•	Adapt spe	ech organs to	get near-perfect	native Englis	h pronunciation.	
•	Enhance l	knowledge an	d skills to develo	op life-long g	oal to perform in globally compe	etitive
	service ind	dustry				
•	Understar	nd the very nee	ed of "Basic Etiqu	iettes" in Cor	porate	
Theory	y syllabus					
Unit			С	ontent		Hrs
1	Basics of C	Communicatio	n:			6
	Definition, Principles, Process, Functions, and Forms of communication (Formal – Informal,					
	Verbal – Non-verbal, Electronic and Visual)					
	Barriers to Communication with Remedies					
	All eight Parts of Speech, Tenses, Active and passive Voice					
2	Introduction to Functional Grammar in English 6					
	Verb Forn	ns, Collocation	s, Homophones	and Homon	yms, Conjunctions, Abbreviations	
	&Acronyms	and Introduction	on to English Soun	ds		
3	Receptive	Language Skil	ls [Listening and	Reading Skill	s]	6
	A. Listenir	ng Skill:				
			- f list in			
	Definiti Dro rog	on and process				
	Modes	of listoning	ive insterning			
	Causes	of noor listenin	σ			
	Tins for	effective listen	5 ing			
	Traits o	f a good listenir	יייש וס			
	B. Reading Skill:					
	Definition and types of reading					
	Techniques for effective reading comprehension					
	Purposes of Reading				_	
4	Productive	e Language Ski	lls (Written Com	munication)		6
	Basic Writi	ng Skills				
	Significance	e of written com	munication for pro	ofessionals		
	Fundamentals of good writing					

	Guidelines for effective writing – Selection of words		
	Improving Technical vocabulary		
	Framing sentences and composing paragraphs.		
	Precise writing		
	Letter Writing		
	Structure and layout of a business letter / emails		
	Types of business letters – inquiry, reply, complaint and adjustment letter, salespromotion, Job		
application with resume			
	Error free writing, Improving word power and fast writing		
	Advertisement / PR Writing		
	Advertisement drafts with special reference to engineering & technology		
	Writing PR drafts for events & activities		
5	Learning Basic Etiquettes	6	
	What is Etiquette		
Why Etiquettes are needed?			
Dressing and Grooming Etiquette			
Wishing, Meeting and Parting Etiquette			
Standing Tall Etiquette			
	Interview Ethics Etiquette		
	Being Polite Etiquette		
	General Office Manners Etiquette		
	Telephone Etiquette / Mobile Etiquette		
Text	Books		
1	-		
Refe	rence Books		
1	Business Communication by V. K. Jain and OmprakashBiyani (S. Chand & Company)		
2	A Communicative Grammar of English by Geoffery Leech and Fan Svartvik (Pearson Longman)		
3	Oxford English for Careers: Technology 1: Student's Book by Eric Glendinning		
4	English for Specific Purposes (Resource Books for Teachers) by Keith Harding		
5	Word Power Made Easy by Norman Lewis		
6	English Grammar by Wren & Martin		
7	Nautical Miles by IMS		

FCA14VD1: LIFE SKILLS DEVELOPMENT

Learning Outcome:

On successful completion of the course, the students will be:

- Able To Learn Life Skills
- Familiar With Self-Awareness And Effectiveness
- Understand The Thinking And Coping Skills
- Aware About Problem Solving And Decision Making
- Acquire Knowledge About Life Skills And Career

Contact Hours: 30

Unit 1: LIFE SKILL (7)

- Definition and Importance of LifeSkills
- Life SkillsEducation,
- Life Skills Approach in Education and Training
- Classification of Life Skills Generic, Problem Specific and Area Specific Skills, Social&
- Negotiation Skills

Unit 2: SELF-AWARENESS AND EFFECTIVENESS (7)

- **Self-Awareness:** Definition, Importance, Dimensions, Components Methods and Strategies for nurturingSelf-Awareness
- **Self-Effectiveness:** Body Image, Self Esteem, Punctuality, Honesty, Loyalty, Dependability, Reliability

Unit 3: THINKING AND COPING SKILLS (7)

Nature, Elements of Thought and Types of Thinking

- **Creative and CriticalThinking** Definition, Nature, Stages
- **Problem Solving and DecisionMaking** Introduction of Problem Solving and Decision Making process
- **CopingSkills** Coping with Emotions: Definition, Characteristics Coping with stress: Definition, Sources of Stress, Strategies to Manage Stress

Unit 4: LIFE SKILLS AND CAREER (9)

Education

- Goal Setting
- TimeManagement
- Effective Learning: Study Skills and MemoryTechniques
- ExaminationPreparation Work/Career
- Factors Influencing CareerChoice
- Career Planning: Importance, Steps
- Interview: Types, Preparation, Do's andDon'ts
- Life Skills for Effective Learning, Successful Career Planning & Development and Interview

Text Book

Life Skills Education by Dr. K. RavikanthRao, Dr. P. Dinakar- Neelkamal Publications Pvt. Ltd.

- 1. Personality Development and soft skills by Barun KMitra-OXFORD
- 2. *Career Counselling: A Handbook by* Arulmani. G. and ArulmaniSonali Nag- Tata McGraw Hill PublishingCo
- 3. *Psychology for Living- Adjustment, Growth and BehaviourToday*(8th Edn.), *by* Duffy Grover Karen, Atwater Eastwood Pearson Education Inc, NewDelhi.

FCA14VD2 :QUANTITATIVE APTITUDE AND LOGICAL REASONING

Learning Outcome:

On successful completion of the course, the students will be:

- Familiar With Operations On Numbers, H.C.F. & L.C.M Of Numbers, Decimal Fractions
- Understand The Simplification Of Numbers
- Aware About Average, Problems On Numbers, Problems On Ages And Percentage And Simple
 Interest
- Acquire Knowledge About Permutation & Combinations And Probability
- Able To Learn Time & Work, Time & Distance And Odd Man Out & Series

Contact Hours: 30

UNIT-1:

OPERATIONS ON NUMBERS, H.C.F. & L.C.M OF NUMBERS, DECIMAL FRACTIONS(7)

- Face value & PlaceValue,
- Types of numbers, Even & Odd numbers, Prime numbers, Tests ofdivisibility,
- Factors & Multiples, HCF or GCM or GCD, LCM, Product of HCF & LCM, Co primes, HCF & LCM of Fractions, Conversion of Decimal into Vulgar Fraction, Operations & Comparison on decimal fractions, Recurring Decimal, Basic Formulae for decimalfractions

UNIT-2:

SIMPLIFICATION OF NUMBERS(2)

- Square Roots & Cube Roots BODMASRule,
- Modulus of a real number, Facts and Formulae of square roots and cuberoots

AVERAGE, PROBLEMS ON NUMBERS, PROBLEMS ON AGES AND PERCENTAGE(3)

- Facts and Formulae of Average Concept ofPercentage,
- Express x% as fraction, Express a/b as percent, Results onPopulation

SIMPLE INTEREST (3)

- Concept of principal and interest
- Facts and formulae for simpleinterest

UNIT-3:

PERMUTATION & COMBINATIONS(3)

- Factorial notation, Number of permutations, Number of combinations,
- Facts and formulae of permutation and combinations

PROBABILITY(4)

- Experiment and Random experiment, Samplespace
- Probability of Occurrence of an event, Results onprobability

UNIT-4:

TIME & WORK, TIME & DISTANCE(3)

- Facts and formulae for time andwork,
- Facts and formulae for time anddistance

ODD MAN OUT &SERIES(5)

- Facts, exercises and solutions for odd manout,
- Facts, exercises and solutions for seriesproblems

TextBook

QUANTITATIVE APTITUDE for competitive examinations by Dr.R.S. Aggarwal, S.CHAND publication

- 1. QUANTITATIVE APTITUDE for competitive examinations by ABHIJIT GUHA, McGrawHill Education
- 2. GENERAL INTELLIGENCE AND TEST OF REASONING, Vikas PublishingHouse

FCA14VD3: ETHICS & VALUES

Learning Outcome:

On successful completion of the course, the students will be:

- Understand The Human Values
- Aware About Engineering Ethics
- Acquire Knowledge About Engineering As Social Experimentation
- Able To Learn Safety, Responsibilities And Right
- Familiar With Global Issues

Total Sessions:30

Human Values:

Morals, Values and Ethics – Integrity – Work Ethic – Honesty – Courage –Empathy – Self-Confidence – Character = Continuous Happiness and Prosperity- A look at basic Human Aspirations, Understanding and living in harmony at various levels

Engineering Ethics:

Senses of 'Engineering Ethics' - variety of moral issued - types of inquiry - moral dilemmas - moral autonomy - Kohlberg's theory - Gilligan's theory - consensus and controversy - Models of Professional Roles - theories about right action - Self-interest - customs and religion - uses of ethical theories. Valuing Time - Co-operation - Commitment

Engineering as Social Experimentation:

Engineering as experimentation - engineers as responsible experimenters - codes of ethics - a balanced outlook on law - the challenger casestudy

Safety, Responsibilities and Right:

Safety and risk - assessment of safety and risk - risk benefit analysis and reducing risk - the Three Mile Island and Chernobyl case studies, Collegiality and Loyalty - respect for Authority – collective Bargaining - confidentiality - Conflicts of Interest – Professional rights - EmployeeRights.

Global Issues:

Multinational corporations - Environmental ethics - computer ethics - weapons development - engineers as managers-consulting engineers-engineers as expert witnesses and advisors -moral Leadership

- 1) A Textbook on Professional Ethics and Human Values by Naagarazan, R.S, New Age Pub.
- 2) Ethics in Engineering by Mike Martin and Roland Schinzinger, McGraw-Hill, New York
- 3) Engineering Ethics by Govindarajan M, Natarajan S, Senthil Kumar V. S, Prentice Hall

FCA15VD4: CREATIVE & CRITICAL THINKING

Learning Outcome:

On successful completion of the course, the students will be:

- Aware About Creative & Critical Thinking
- Acquire Knowledge About Thinking Styles And Common Mistakes
- Able To Learn Techniques For Improving Creativity
- Familiar With Evaluating Arguments
- Understand The Creativity In Problem Solving

Total Sessions:30

Introduction to Creativity and Innovation, Differentiation between creative and critical thinking

Thinking styles and common mistakes in thinking

Thinking about information and emotions, truth and knowledge

Evaluating arguments by asking the right questions about issues, conclusions, reasons, assumptions, evidence, etc.

Techniques for improving Creativity :

Brainstorming, Lateral Thinking, List of Mental Associations, Random Combinations, Matrix of Ideas, Use of Manipulative verbs, Tree of Possibilities, Abstraction, Transformation, Use of mind stimulation: games, brain-twisters and puzzles

Creativity in problem solving:

Problem Definition, Understanding, Representing, Pattern Breaking, Thinking differently, Changing your point of view, Watching for paradigm shift, Challenging conventional wisdom, Lateral thinking, etc.

ReferenceBooks:

1) Asking the right Questions by M. Neil Browne & Stuart M. Keeley, Pearson, Prentice Hall

- 2) Teach Yourself to Think by Edward de Bono, Penguin
- 3) Lateral Thinking by Edward de Bono, Penguin
- 4) Six Thinking Hats by Edward de Bono, Penguin
- 5) Selected videos showcasing cases and arguments

FCA15VD5 : BASIC PYTHON PROGRAMMING

Learning Outcome:

On successful completion of the course, the students will be:

- Acquire Knowledge About Basic Python Programming
- Able To Learn Installation And Features Of Python
- Familiar With Modules And Data Structures
- Understand The Object-Oriented Programming
- Aware About String And File Manipulation

Total Sessions: 30 (20 Theory+10 Practical)

Required the knowledge of basic programming concepts.

Introduction to Python:

Installation and working with Python, Features of Python, The Basics: Literal Constants, Numbers, Strings, Variables, Identifier Naming, Data Types, Objects, Logical and Physical Lines, Indentation, Operators and Expressions, Control Flow statements: if, while loop, for loop, break, continue, Library: NumPy, Pandas

Using Modules and Data Structures:

Modules: Introduction, the from.Import statement, Creating your own Modules, Data Structures: List, Tuple, Dictionary, Sequences, Object-Oriented Programming: classes, objects, The Self, object Methods, The initmethod, Class and Object Variables, Inheritance, polymorphism, Exceptions: Errors, Handling Exceptions, Raising Exceptions, Using Finally

String and File Manipulation:

String Functions, Manipulating files and directories, Text files: reading/writing text and numbers from/to a file, creating and reading a formatted file.

- (1) Fundamental of Python: First Programs By Kenneth A.Lambert
- (2) Programming Python By MarkLutz

FCA15VD6: BASIC CONCEPT OF DIGITAL MEDIA MARKETING

Learning Outcome:

On successful completion of the course, the students will be:

- Able To Learn Basic Concept Of Digital Media Marketing
- Familiar With Different Ways For Digital Marketing
- Understand The Digital Marketing Strategies
- Aware About Social Media Marketing
- Acquire Knowledge About E-Mail & Mobile Marketing

Total Sessions: 30

Required Basic knowledge of Internet and Social Media..

Digital Media Marketing:

Overview of the digital marketing, Digital and traditional marketing, Need of digital marketing, Objective of digital marketing, Different ways for digital marketing, Online marketing plan, Digital marketing strategies, promote business online, Introduction to online advertising -Email, Website, Blog, Blog posting, Blog integration with social media.

Social Media Marketing:

Social networking, Social Media channels, Bookmarking, SMM tools, Content writing, Building brand, Lead generation, Facebook marketing, Facebook insight, Instagram and Linkedin marketing, Twitter, Building followers, Social media strategies.

E-Mail & Mobile Marketing: Overview of E-mail marketing, Email strategy and planning, Email Campion, Email Tools, Mail Chimp, Email Scheduling, Email Automation, Mobile Commerce, Mobile Integration, Mobile analytics.

- (1) eMarketing, The Essential guide to marketing in a digital world, Rob stokes, Minds , 5th Edition, Publication-Quirk
- (2) Digital marketing for Dummies, Ryan Deiss and Russ Hennesberry, 2017

FCA16VD7: IMAGE PROCESSING

Learning Outcome:

On successful completion of the course, the students will be:

- Familiar With Image Processing
- Understand The Fundamentals Of Digital Image
- Aware About Image Enhancements In The Spatial Domain
- Acquire Knowledge About Image Restoration And Image Segmentation
- Able To Learn Image Segmentation

Contact Hours: 30

Unit 1: INTRODUCTION (06)

- What Is Digital Image Processing? The Origins of Digital ImageProcessing,
- Examples of Fields that Use Digital ImageProcessing,
- Fundamental Steps in Digital ImageProcessing,
- Components of an Image ProcessingSystem.

Unit 2: DIGITAL IMAGE FUNDAMENTALS (07)

- Elements of Visual Perception, Light and the Electromagnetic Spectrum, Image Sensing and Acquisition
- Basic Concepts in Sampling and Quantization,
- Some Basic Relationships Between Pixels, An Introduction to the Mathematical Tools Used in Digital ImageProcessing.

Unit 3: IMAGE ENHANCEMENTS IN THE SPATIAL DOMAIN (05)

- Background, Some Basic Intensity TransformationFunctions,
- HistogramProcessing,
- Fundamentals of Basics of SpatialFiltering
- Smoothing and Sharpening SpatialFilters

Unit 4: IMAGE RESTORATION AND IMAGE SEGMENTATION (07)

- A model of the Image Degradation/RestorationProcess,
- Noise Models, Restoration in the Presence of Noisy Only-SpatialFiltering
- Periodic Noise Reduction by Frequency DomainFiltering
- Linear, Position-Invariant Degradations, Estimating the DegradationFunction,
- Geometric Mean Filter, Image Reconstruction from Projections.

Unit5: IMAGE SEGMENTATION(05)

- Fundamentals, Point, Line and EdgeDetection
- Thresholding , Region BasedSegmentation
- Segmentation Using MorphologicalWatersheds

Text Book

Digital Image Processing by Rafael C. Gonzalez and Richard E. Woods. **Reference Books:**

- 1. Digital Image Processing by S. Sridhar Oxford UniversityPress
- 2. Fundamentals of Image Processing by Anil KJain
- 3. The Image Processing Handbook by John C Russ, CRC & IEEEPress
- 4. Digital Image Processing using MATLAB by Rafael C. Gonzalez, Richard E. Woods, Steven

FCA17VD8: MOBILE APPLICATION CONCEPT

Learning Outcome:

On successful completion of the course, the students will be:

- Understand The Basics Of Mobile Technology
- Aware About Mobile Application Architectures And Devices
- Acquire Knowledge About Android Basic & Its Components
- Able To Learn Features Of Android
- Familiar With Styles And Themes, Shapes & Animation

Total Sessions: 30 (20 Theory+10 Practical)

Required the knowledge of core java, database concepts & Programming knowledge.

Basic of mobile technology

Mobile Devices - Definition, m-commerce, m-business, component of wireless environment, why go mobile, input mechanisms, wireless communication, mobile device classification

Mobile Application Architectures - Choosing architecture, messaging, advantages of messaging

Introduction to Android Basic & Its components

Introduction to Android - History of android, The Open Handset Alliance, Android SDK installation, Android SDK & their codenames, Advantages of android, The Android O/S Architecture, Over view of IDE for Android application, What is AVD, How to launch and start the AVD (android virtual device)

Managing Application Resources - What are resources, resource value types, storing different resource values types (string, string arrays, Boolean, colors, integer, animation, &menus)

Android Application Components - Activities & its life cycle, Services & its life cycle, Broadcast receiver, Content provider, Intents, shutting down component ,Android Manifest File in detail ,Use of Intent Filter

Features of android

Various Layouts - What is layout, two of declaring layout, layout file structure, layouts common attribute, types of layout (linear layout, relative layout, table layout, frame layout ,tab layout)

Styles and Themes - Basic styles & themes in XML layout

Using Data-Driven Containers - List View, Grid View, and Gallery View (Using the Array Adapter)Working with Shapes & Animation - Drawing basic shapes, frame by frame animation, tweened animationApp widgets - What is app widget, its framework, step to create, creating app widget configuration activity.

Reference Books:

(1) Android wireless application development, second edition by shaneconder ,Lauren darcey – Addison - Welsey

FCA18VD9: BASIC CONCEPT OF SEO

Learning Outcome:

On successful completion of the course, the students will be:

- Aware About Basic Concept Of Seo
- Acquire Knowledge About How The Search Engine Works?
- Able To Learn Search Engine Architecture
- Familiar With Link Building, Google Business Listing, Seo Audits
- Understand The Search Engine Algorithms

Total Sessions: 30

Required Basic knowledge of Internet and Social Media..

Search engine optimization:

SEO Introduction, Importance of Search Engines, How the search engine works?, Using Search Operators, Google Search Engine Architecture, Indexing and Crawling, Keyword research, Keyword Planner tools, Organic search, Paid search, On page SEO, Off Page SEO

Link building, Google Business listing, SEO audits, Tools and Measurements, Search engine algorithm, Directory submission, robot.txt, Inbound Link, Link Building.

Search engine marketing:

SEM Introduction, Google Ad Words, Ad Sense, Campaign types, Display network, Mobile AD, YouTube Campaign, Landing page, Ecommerce listing, Affiliate marketing, Pinterest, Social Bookmarking.

- (1) Search Engine Optimization All in one for Dummies, Bruce Clay, Susan Esparza, 2ndEdition ,Publication Wiley
- (2) Inbound Marketing, Get Found Using Google, Social Media, and Blogs 1st Edition, BrianHalligan ,Dharmesh Shah.

FCA19VD10: GENDER PERSPECTIVE-SOCIETY, EDUCATION AND ECONOMICS

Learning Outcome:

On successful completion of the course, the students will be:

- Acquire Knowledge About Gender Perspective-Society, Education And Economics
- Able To Learn Gender, Family And Social Dynamics
- Familiar With Gender And Education
- Understand The Gender And Economics
- Aware About Gender Roles

Contact Hours: 30

Unit 1: Introduction

- Gender roles: Biological vs. culturaldeterminism
- Private vs. publicdichotomy
- Existential foundation of gender-powerrelations
- Human development indicators and genderdisparity

Unit 2 : Gender, Family and Social Dynamics

- Gender and Family
- Gender role socialization and formation ofidentity
- Psychoanalysis, social constructionist and discursive analysis ofgender
- Social Dynamics of Gender : Patriarchy and Gender-power, Capitalism and Gender, Caste, Class and Gender

Unit 3 : Gender and Education

- Gender disparity ineducation
- Gender bias in schoolcurriculum
- Andro-centric construction ofknowledge
- Education goals from genderperspective

Unit 4 : Gender and Economics

- Women and work: unpaid, underpaid and casualwork
- Women in primary, secondary and tertiarysectors
- Invisibility of women's work, problems inmeasurement
- Women's participation in organized and unorganized sector
- Globalization and its impact ongender

Text Book

Towards Gender Equality: India's Experience, N. Linga Murthy

- 1. J. Gender roles and power. Lipman-Blumen New Jersey:Prentice-Hall.
- 2. Why Gender Matters in Economics, MukeshEswaran
- 3. Gender Justice, Education and Equality: Creating Capabilities for Girls' andWomen's Development, FirdevsMelisCin







LIFE SKILLS DEVELOPMENT



About The Course

Life skills training equip people with the social and interpersonal skills that enable them to cope with the demands of everyday life. The objectives of this training are to build self-confidence, encourage critical thinking, foster independence and help people to communicate more effectively.

A primary objective of life skills training that focus on personal development is to promote confidence and well-being in young people and adults. It helps participants become more assertive, communicate effectively with others by developing good listening skills and learn to handle stress and deal with disappointments and setbacks. Such classes help people to explore their beliefs and attitudes through group discussions and confidence building techniques such as positive visualization. They encourage people to play to their strengths by engaging in creative activities and following a healthy lifestyle.

Important Information

- As per the host Institute and instruction from FCA, the course consisting of 30 lectures credits. This credit can be included in the student's marks for seminar/presentation/college tour or any other suitable subject as per the participating Institute/ College rules and regulation.
- Students will be provided course material covering the entire course.

Organized By



CREATIVE & CRITICAL THINKING





About The Course

The **aim** of this **course** is to introduce you to the steps in **creative** and **critical thinking** process, which you can then apply in personal and workplace situations.

Critical and creative thinking are two of the top, in-demand workplace skills. Critical and creative thinking skills are crucial to the process of decision-making, in both business settings and personal situations.

This Creative and Critical thinking course will :

- Explain Techniques for improving Creativity
- Explain Creativity in problem solving

Important Information

- As per the host Institute and instruction from FCA, the course consisting of 30 lectures credits. This credit can be included in the student's marks for seminar/presentation/college tour or any other suitable subject as per the participating Institute/ College rules and regulation.
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About The Course

Ethics and values are a liberating force, enabling higher performance, better quality relationships and an expanded sense of purpose and identity. This syllabus **aims** to present a framework for understanding human **values** and their role in life, work, business and leadership. A value is one of our most important and enduring beliefs, whether that be about a thing or a behavior

The main aim of this course is to Human Values, Engineering Ethics, Engineering as Social Experimentation, safety, responsibility, rights and related global issues.

Important Information

- As per the host Institute and instruction from FCA, the course consisting of 30 lectures credits. This credit can be included in the student's marks for seminar/presentation/college tour or any other suitable subject as per the participating Institute/ College rules and regulation.
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MOBILE APPLICATION CONCEPT

About The Corse

Required the basic knowledge of core java, database concepts & Programming knowledge. A mobile application is a software program that is designed to run on specific hardware, namely mobile handheld computing devices such as tablets and smartphones. They are the programs that execute when you press an icon on your mobile device, such as an iPad or Android phone etc.

About Faculty of Computer Applications (FCA)

We are delighted for your interest in FCA, Ganpat University and happy to make available information of your interest. Faculty of Computer Applications provides an attractive opportunity for students to develop skills needed at industry by studying at one of the most beautiful university campuses in Gujarat, India. All courses at FCA, GNU has most appropriate curriculum which are taught by rich experienced faculty team with the ample learning resources, modern laboratory with cutting edge equipments & state of art infrastructure. Regular workshop/seminar on emerging trends & Technologies are conducted regularly by external experts along with teaching sessions for overall technical development. We are offering on demand scheduling for internal project review during internship, which helps students to focus at project work and help industry to work uninterrupted with the interns of FCA, GNU. At FCA, we are offering undergrad to PhD programs in area of Computer Applications, Information Technology, Information Communication Technology, IT Infrastructure Management and Cyber Security. We were the pioneer institution in the north Gujarat reason for offering MCA, MSc IT, MSc. IT (Cyber Security), MSc. IT (Machine Learning).

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Organized By







DIGITAL MEDIA MARKETING

About The Corse

Required Basic knowledge of Internet and Social Media. One of the most important things for the business is to make sure that they are able to have some amazing leads for their businesses. Leads will help your website get the most relevant traffic. Some brands might focus on getting more customers and some would focus on other things. But the main agenda here is to make sure that people become more and more interested in the business which is very important.

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PYTHON PROGRAMMING



About The Course

Python Programming is intended for software engineers, systems analysts, program managers and user support personnel who wish to learn the Python programming language.

Learning Objectives

- To understand why Python is a useful scripting language for developers.
- To learn how to design and program Python applications.
- To learn how to use lists, tuples, and dictionaries in Python programs.
- To learn how to identify Python object types.
- To define the structure and components of a Python program.

Important Information

- As per the host Institute and instruction from FCA, the course consisting of 30 lectures credits. This credit can be included in the student's marks for seminar/presentation/college tour or any other suitable subject as per the participating Institute/ College rules and regulation.
- Students will be provided course material covering the entire course.

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QUANTITATIVE APTITUDE AND LOGICAL REASONING



About The Course

Students will be able to critique and evaluate **quantitative** arguments that utilize mathematical, statistical, and **quantitative** information.

This objective aims to ensure that students learn to think critically about mathematical models for relationships between different quantities and use those models effectively and accurately to solve problems and reach sound conclusions about them. Students should be able to comprehend, work with, and apply general mathematical techniques and models to different situations, not just plug problem-specific data into a given formula.

On successful completion of the course the students will be able to:

- Understand the basic concepts of operations and simplifications on numbers.
- Understand the basic concepts of permutation & combinations, probability.
- Understand the basic concepts of time & work, time & distance.

Important Information

- As per the host Institute and instruction from FCA, the course consisting of 30 lectures credits. This credit can be included in the student's marks for seminar/presentation/college tour or any other suitable subject as per the participating Institute/ College rules and regulation.
- Students will be provided course material covering the entire course.

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SEARCH ENGINE OPTIMIZATION (SEO)

About The Corse

Required Basic knowledge of Internet and Social Media. The optimization of the website can be done properly by creating the keyword targeted content. Good quality content on the website provides ultimate results in very less time. It drives direct traffic from the search engines to your website. SEO is that helps you generate relevant traffic to your e-commerce website which often leads to the generation of sales. The branding is another powerful tool for the application of SEO. It uses various social media profiles, public relations, press releases, etc for this task.

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- Students will be provided course material covering the entire course.

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IMAGE PROCESSING



About The Course

- This course is an introduction to the fundamental concepts and techniques in basic digital image processing and their applications to solve real life problems. To study the image fundamentals and mathematical transforms necessary for image processing.
- The topics covered include Digital Image Fundamentals, Image Transforms, Image Enhancement in spatial domain, Image Restoration and Image Segmentation.
- After the completion of this course, students will be familiar with basic image processing techniques for solving real problems.

Important Information

- As per the host Institute and instruction from FCA, the course consisting of 30 lectures credits. This credit can be included in the student's marks for seminar/presentation/college tour or any other suitable subject as per the participating Institute/ College rules and regulation.
- Students will be provided course material covering the entire course.

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GENDER PERSPECTIVE-SOCIETY, EDUCATION AND ECONOMICS



About The Course

- Women and girls represent half of the world's population and, therefore, also half of its potential. Gender equality, besides being a fundamental human right, is essential to achieve peaceful societies, with full human potential and sustainable development. Moreover, it has been shown that empowering women spurs productivity and economic growth.
- Unfortunately, there is still a long way to go to achieve full equality of rights and opportunities between men and women. Therefore, it is of paramount importance to end the multiple forms of gender violence and secure equal access to quality education and health, economic resources and participation in political life for both women and girls and men and boys. It is also essential to achieve equal opportunities in access to employment and to positions of leadership and decision-making at all levels.

Important Information

- As per the host Institute and instruction from FCA, the course consisting of 30 lectures credits. This credit can be included in the student's marks for seminar/presentation/college tour or any other suitable subject as per the participating Institute/ College rules and regulation.
- Students will be provided course material covering the entire course.

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Ganpat University

Shree S. K. Patel College of Pharmaceutical Education & Research

VALUE ADDITION PROGAMS - "Programs that Enhance the Skill"

Objective:

The value added courses offered beyond the working hours of the institute. The value added courses are a blend of theory classes/experimental learning/project based learning/activity based learning. The students have option to choose the courses according to their desires and inclinations. To provide value added course in order to equip them to enhance their curriculum and gain knowledge which will enable them to face the formidable challenges of the future.

Sr	Name of Value Added Courses Offered	Course	Year of
No.		Code	Introduction
1	Creative and Critical Thinking	PVC01	2014-15
2	Ethics and Human Values	PVC02	2014-15
2	Effective Writing and Presentation Skill	PVC03	2014-15
3	Environmental Studies and Disaster Management	PVC04	2015-16
4	Innovation & Entrepreneurship	PVC05	2016-17
5	Ethics in Research	PVC06	2017-18
7	Pharmacovigilance	PVC07	2018-19
/	Personality Development	PVC08	2018-19
0	Personality Development	PVC09	2018-19
9	Creen Chemistry	PVC10	2018-19
10	Green Chemistry	PVC11	2019-20
11	Functional Food and Nutracedicals	PVC12	2019-20
12	Hospital Management	PVC13	2019-20
13	Herbal Cosmetics		2020-21
14	Integrated personality Development Course - 1		2020-21
15	Discover Yourself Through Bhagvad Gita - 1		2020-21
16	Integrated Personality Development Course - II		2020-21
17	Discover Yourself Through Bhagvad Gita - II	UHV-II	2020-21

Following Value Added Courses offered by Institute:

Contact Hours: 30 Hours

Eligibility: Courses are open for all Pharmacy students.

Registration: Submit the registration form duly filled by participants. Final list of participants is to be displayed on the notice board.



Dr. S. S. Pancholi Principal S. K. Patel College of Pharmaceutical Education & Researc Ganpat University

Ganpat University

Shree S.K. Patel College of Pharmaceutical Education & Research

VALUE ADDED COURSES Syllabus

GANPAT UNIVERSITY

FACULTY OF PHARMACY

Programme	Pharmacy
Effective for the batch Admitted in	2014-2015
Subject Name	Creative and Critical Thinking
Subject code	PVC01

Learning Outcome:

On successful completion of the course, the students will be:

- able to enhance their creative and innovative thinking skills
- familiar with processes and methods of creative problem solving: observation, definition, representation, ideation, evaluation and decision making
- able to take better decisions
- able to evaluate facts in an argument
- learn the Art of Questioning
- able to be better thinkers

Syllabus - Theory		
Unit	Content	Hrs
1	Initial Considerations: Exploring Thinking In General 1. Ascertain personal thinking strengths	6
	and weaknesses 2. Compare personal thinking habits to those of others 3. Compose personal	
	goals for thinking skills improvement	
2	Introduction to creativity and innovation, differentiation between creative and critical thinking,	8
	thinking styles and common mistakes of thinking, thinking about information and emotions, truth	
	and knowledge, evaluating knowledge by asking the right questions about issues, conclusions,	
	reasons, assumptions and evidence etc.	
3	Techniques for improving creativity: Brainstorming, lateral thinking, list of mental associations,	8
	random considerations, matrix of ideas, use of manipulative verbs, tree of possibilities,	
	abstractions, transformation, use of mind stimulation: games, brain twisters and puzzles.	
4	Creativity in Problem Solving: Problem definition, understanding, representing, pattern bracketing,	8
	thinking differently, changing your point of view, watching for paradigm shift, challenging	
	conventional wisdom, lateral thinking etc	
References		
1	Asking the Right Questions by M. Neil Browne, Stuart M. Keeley	
2	Teach Yourself to Think by Edward Ee Bono	
3	Lateral thinking by Edward Ee Bono	
GANPAT UNIVERSITY

FACULTY OF PHARMACY

Programme	Pharmacy
Effective for the batch Admitted in	2014-2015
Subject Name	Ethics and Human Values
Subject code	PVC02

Learning Outcome:

On completion of the course, learner will be able to-

- Understood human values, their significance and role in life.
- Promote self-reflection and critical inquiry that foster critical thinking of one's value and the values of others.
- Practice respect for human rights and democratic principles.
- Familiarized with various living and non-living organisms and their interaction with environment.
- Understood the basics regarding the leadership and to become a conscious professional.

Sylla	bus - Theory	
Unit	Content	Hrs
1	Introduction of Value Education: Definition, Need, Content, Process and relevance to present	3
	day. Concept of Human Values, self introspection.	
2	Salient values for life: Truth, commitment, honesty and integrity, forgiveness and love, empathy	6
	and ability to sacrifice, care, unity, punctuality, Interpersonal and Intra personal relationship,	
	Team work , Positive and creative thinking.	
3	Human Rights: Universal Declaration of Human Rights, Right to Information Act -2005, National	6
	Integration, Peace and non-violence, Dr. A P J Kalam's ten points for enlightened Citizenship.	
	The role of media in value building.	
4	Environment and Ecology: Ecological balance, interdependence of all beings – living and non-living.	6
	Man and nature, Environment conservation and enrichment	
5	Social values & Ethical values:	9
	Social values - Social consciousness and responsibility, Consumer rights and responsibilities.	
	Ethical values - Professional ethics, Code of ethics of engineers, Influence of ethics on family life,	
	Leadership qualities and Personality development.	
Refer	ences	
1	R R Gaur, R Sangal, G P Bagaria, 2009, A Foundation Course in Human Values and Professiona	ıl
	Ethics	
2	A N Tripathy, 2003, Human Values, New Age International Publishers.	
3	B P Banerjee, 2005, Foundations of Ethics and Management, Excel Books.	

	GANPAT UNIVERSITY
	FACULTY OF PHARMACY
Program	Pharmacy
Effective for the batch Admitted in	2014-2015
Subject Name	Effective Writing and presentation skills
Subject code	PVC03
Scope and Objectives:	
Upon completion of the course studen	t shall be able to

- Apply six fundamentals of effective writing. ٠
- Demonstrate the ability to write effectively in a variety of modes, including oral presentations, • recommendations and policy documents
- Write an academic research paper/report on complex topic. ٠

Learning Outcome:

- Identifying core component of effective writing and presentation skills ٠
- Writing reports, Projects and present academic paper ٠

Sylla	bus- Theory	
Unit	Content	Hrs
1	Writing basics: reading, topic selection, analytical, expository and argumentative style ,parts of writing- introduction, body and conclusion, reading comprehension, clarity and effective writing, organizing thoughts, precise writing, essay thesis, unified and coherently developed paragraphs, asynchronous presentation, discussion.	04
2	Grammar basics: Reading, grammar revisions, Tenses, articles, verbs, prepositions, daily conversation English, common English phrases and expressions, active and passive voice, basic sentence structure, subject-verb agreement, clause, audio linguism, categorization, conjunctive adverbs, sentence joining, direct and indirect quotations, discussion.	05
3	Communication basics: Voice mail greeting, email subject line, message body, personal process, formal and informal network, hierarchy level, process of communication, body language, Uses of English in academic and non-academic situations in India, Note taking tips, International phonetic alphabet (IPA) symbols, Offering and responding to offers, Requesting and responding to requests.	05
4	Presentation: Presentation media terminology and concepts, basics of Microsoft power point, presentation of ideas, connection with audience, deliver core message, effective compositions and style, text alignment, structuring the presentation, slide designing, graphics use, bibliography, language, Getting Started and Speaking Technique, Personal Speech, Impromptu and Timed Speaking, Persuasive Speech, Informative speech.	08
5	Research paper work writing: Independent work, abstract writing, formulating outline of paper, presentation of data in research paper, Discriminate between primary and secondary research, Synthesize original ideas with information gathered from outside sources, Using the writing process formulate a research paper that analyzes or documents a topic and is appropriate to audience and purpose, Evaluation of both print and non-print research sources, Designing and preparing a research plan.	08
Refe	rences:	
1	How to talk to anyone by Leil Lowndes	
2	Raman, Meenakshi & Sangeeta Sharma. Technical Communication: Principles and Practice.	
3	Oxford Guide to Effective Writing and Speaking: How to Communicate Clearly Paperback by John Seely	

		GANPAT UNIVERSITY	
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Progra	amme		-
Effect	ive for the batch Admitted in	2015-2016	
Subje	ct Name	Environmental Studies and Disaster Management	
Subje	ct code	PVC04	
Cours	e Objective:		
This co	ourse attempt to discuss the me	aning of disasters, their impact on human life and development,	
Sustai	nable Development and the idea	a of Disaster Risk Reduction and the objectives and challenges of disas	ter
mana	gement.		
Learn	ing Outcome:		
Upon	completion of this course, stude	ents will acquire knowledge about	
• Un	derstand the natural environme	ent and its relationships with human activities.	
• Ch	aracterize and analyze human ir	npacts on the environment.	
• Int	egrate facts, concepts, and met	hods from multiple disciplines and apply to environmental problems.	
• Ca	pacity to integrate knowledge a	ind to analyse, evaluate and manage the different public health aspe	ects
01 Culleb			
Syliad	Content		11.00
Unit	Content		Hrs
1	Introduction to Environment:	Definition, Components of Environment, Relationship between	5
	different components, Man-Er	ivironment relationship, impact of rechnology on the environment,	
2	Ecology & Ecosystems: Intr	aduction: Ecology Objectives and Classification. Concents of an	6
Z	ecosystem- structure & function	on of ecosystem Components of ecosystem- Producers Consumers	0
	Decomposers Energy flow in t	the ecosystem - Ecological succession - Ecod chains, food webs and	
	ecological pyramids Introdu	iction, types, characteristic features, structure and function of the	
	following ecosystem: Forest e	ecosystem. Grassland ecosystem . Desert ecosystem. Aquatic	
	ecosystems (ponds, streams, la	akes, rivers, oceans, estuaries)	
3	Environmental Pollution:		6
	Air Pollution: Composition of	air, Structure of atmosphere, Ambient Air Quality Standards,	
	Classification of air pollutants,	Sources of common air pollutants like SPM, SO ₂ , NO _X .	
	Noise Pollution: Introduction	, Sound and Noise measurements, Sources of Noise Pollution,	
	Ambient noise levels, Effects o	f noise pollution, Noise pollution control measures.	
	Water Pollution: Introduction	n – Water Quality Standards, Sources of Water Pollution,	
	Classification of water pollutar	nts, Effects of water pollutants	
	Current Environmental Globa	I Issues: Global Warming and Green Houses Effect, Acid Rain,	
4	Depletion of Ozone Layer.	Deserves Newspanniship Deserves Indian Connexis Destruction	-
4	Energy Resources: Renewable	Resources, Nonrenewable Resources, Indian Scenario, Destruction	5
		an Tunce of Natural Directory Assidental Directory Impact of	-
5	Disasters on Trade and Interna	itional Trade	5
6	Natural Technological & S	ocial Disasters and Management: Introduction, Earthquakes,	5
	Tornadoes, Floods, Tsunami,	Volcanoes, , Forest Fires, Severe, Landslides, Epidemics and Insect	
	Infestations, Types of Tech	nnological Hazards, Social Disasters, Components of Disaster	
	Management, Government's F	Role in Disaster Management through Control of Information, Actors	
	in Disaster Management.		
Refere	ences		
1	Basics of Environmental Studies	by Dr. N. S. Varandani, Books India Publications.	
2	Disaster Management by Muke	shDhunna, Vayu Education of India, Delhi Publication	
3	Environmental Studies by R. Raj	agopalan, Oxford University Press Publication.	
4	Environmental Science by Richa	rd T Wright & Bernard J Nebel, Prentice Hall India Publication.	

GANPAT UNIVERSITY

FACULTY OF PHARMACY

Program	Pharmacy
Effective for the batch Admitted in	2016-2017
Subject Name	Innovation and Entrepreneurship
Subject code	PVC05

Scope and Objectives:

Upon completion of the course student shall be able to

- Appreciate the role of business enterprise based on the pharmacy in national and global economy.
- Understand the dynamics of motivation and concepts of entrepreneurship.
- Identify the demands and challenges of growth strategies and networking.

Learning Outcome:

- Basic concepts involved in innovation, entrepreneurship and business enterprise advancements.
- To know about the characteristics and types of entrepreneurship and applicability of entrepreneurship principles in the profession of pharmacy.
- To gain knowledge about strategies for the development of new ventures, scale up, business models, fund raising.

Sylla	bus- Theory	
Unit	Content	Hrs
1	Introduction to Entrepreneurship: Entrepreneurs; entrepreneurial personality and intentions - characteristics, traits and behavioral; entrepreneurial challenges. Entrepreneurial motivation – dynamics of motivation. Entrepreneurial competency –Concepts. Developing Entrepreneurial competencies - requirements and understanding the process of entrepreneurship development	6
2	Conceptual Frame Work: Concept need and process in entrepreneurship development. Role of enterprise in national and global economy. Types of enterprise – Merits and Demerits. Government policies and schemes for enterprise development. Institutional support in enterprise development and management.	4
3	 Entrepreneurial Process and Decision Making: Entrepreneurial ecosystem, Ideation, development and exploitation of opportunities; Negotiation, decision making process and approaches, Effectuation and Causation. Crafting business models and Start-ups: Introduction to business models; Creating value propositions-conventional industry logic, value innovation logic; customer focused innovation; building and analyzing business models; Business model canvas, Introduction to lean startups, Business Pitching. 	8
4	Launching and Organizing an Enterprise: Environment scanning – Information, sources, schemes of assistance, problems. Enterprise selection, market assessment, enterprise feasibility study, SWOT Analysis. Resource mobilization - finance, technology, raw material, site and manpower. Costing and marketing management and quality control. Feedback, monitoring and evaluation.	
5	Growth Strategies And Networking: Performance appraisal and assessment. Profitability and control measures, demands and challenges. Need for diversification. Future Growth – Techniques of expansion and diversification, vision strategies. Concept and dynamics. Methods, Joint venture, co-ordination and feasibility study.	6
Refer	rences	
1	Prasad, Rohit (2013), Start-up sutra: what the angels won't tell you about business and life, Had India.	chette
2	Blank, Steve (2013), The Startup Owner's Manual: The Step by Step Guide for Building a Great Com K&S Ranch.	ipany,
3	S. Carter and D. Jones-Evans, Enterprise and small business- Principal Practice and Policy, Pe Education (2006)	arson

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2 How 3 Good resea misco	to handle data. The meani	ing of socrosy and confidentiality	
3 Good resea misco	wassauch musstics wassau	ing of secrecy and confidentiality.	5
	rch practice. Meaning of so onduct, preventions and sa	ch integrity and scientific misconduct . Criteria and principles for good cientific misconduct and fraud. Cases and procedures for establishing inctions.	7
4 Respo	onsibility for the results of equences of research. The I	f research. Responsibility for research and the results and limits of responsibility. Risks and the precautionary principle.	7
5 Ethica guidir	al vetting of research. Diffong research on human bein	erent kinds of vetting of research, procedures and ethical principles ngs and animals.	6
References	:		
1 De Pe (pp 22	eol & Royakkers 2011, Eth 23-238)	ics, Technology and Engineering, 8.3 The Engineers Responsibility for S	afety
2 Good	research practice, Vetensk	kapsrådets rapportserie, 3:2011	
3 The U	Ippsala Code of Ethics for S	Scientists, Journal of Peace Research 4/1984	
4 The docur	European Code of Cone ments/Publications/Code	duct for Research Integrity <u>http://www.esf.org/fileadmin/Public</u> Conduct_ResearchIntegrity.pdf	<u></u>

		GANPAT UNIVERSITY	
		FACULTY OF PHARMACY	
Prog	ram	Pharmacy	
Effec	tive for the batch Admitted in	2018-2019	
Subj	ect Name	Pharmacovigilance	
Subj	Subject code PVC07		
Lear	ning Outcome:		
• ·	To be able to detect ADR signals a	ind assess risk of any drug.	
• -	To acquire an overview of impo	tant issues in identification, reporting of ADRs to respective gover	nment
	agencies.		
•	To acquire skills of presenting arg	uments and results of ethical inquiries.	
Sylla	bus- Theory		1
Unit		Content	Hrs
1	Introduction to Pharmacology, (Clinical Trials and Pharmacovigilance	5
2	Adverse Drug Reactions and Saf	ety Reports, Methodologies in Pharmacovigilance	5
3	Management Systems and Dru MedRA, WHODD etc.)	g Dictionaries in Pharmacovigilance (Argus, ArisG, MedWatch,	7
4	Seriousness & Expectedness & C	Causality Assessment Criteria, Aggregate Safety Reports	7
5	Pharmacovigilance Regulations	in Various Countries, Pharmacovigilance Programme in India (PVPI),	6
	Signal Detection and Data Minir	ng,	
Refe	rences:		
1	Mann's phramacovigilance by e	ditors <u>Elizabeth B. Andrews</u> , <u>Nicholas Moore</u> , 3 rd edition.	
2	Highlights on pharmacovigilance	e by P. G. Yeole and Dhanlakshmi Iyer	
3	Essentials of Pharmacovigilance	by Himanshu Baweja.	

		GANPAT UNIVERSITY	
		FACULTY OF PHARMACY	
Prog	amme	Pharmacy	
Effec	tive for the batch Admitted in	2018-2019	
Subje	ect Name	Personality Development	
Subje	ect code	PVC08	
Cours	se Objective:		
This o	course makes the students groom	n their personality and prove themselves as good Samaritans of the	
Socie	ty. The students will develop con	fidence and ability to conduct themselves in a mature manner when t	hey
intera	act with the people		
Learr			
Upor	completion of this course, stude	ents will acquire knowledge about	
	Develop and exhibit and accur	die sense of sen nderstanding of personal motivation	
	Develop and indicate a deep of	and practice personal and professional responsibility	
•	Demonstrate knowledge of i	personal beliefs and values and a commitment to continuing pers	onal
	reflection and reassessment		onar
Sylla	ous - Theory		
Unit	Content		Hrs
1	Introduction to Personality: D	efinition and basics of personality, analysing strength and weakness,	5
	increasing vocabulary and prep	paration of self introduction	
	Personal Grooming: Personal I	Hygiene, Social Effectiveness, Business Etiquettes (Power Dressing)	
2	Techniques in personality deve	lopment stage I: Communication skill, building self esteem and self	6
	confidence, working on attitud	les	
3	Techniques in personality deve	elopment stage II: Introduction to leadership, leadership styles,	
	team building		
4	Techniques in personality of	development stage III: Interpersonal relationship and stress	6
	management		
5	Techniques in personality deve	elopment stage IV: Conflict management and time management	5
6	Personality and Career Choice:	Matching your career and personality, why it matters, Self efficacy.	5
Refer	ences		
1	Personality development and so	oft skills by Barun Mitra.	
2	Personality development by Sw	ami Vivekanada.	

		GANPAT UNIVERSITY	
		FACULTY OF PHARMACY	
Progr	amme	Pharmacy	
Effect	ive for the batch Admitted in	2018-19	
Subje	ct Name	Introduction to Data Analysis Using Spreadsheet	
Subje	ct code	PVC09	
	To develop the Data Pro	cessing skill in MS Excel.	
	To develop the Data Pro	cessing skill in MS Excel.	
.earr	ning Outcome:		
At the	e end of the course students have	strong understanding of theoretical and practical aspects of following a	irea
	Identify the different compo	nents of the Excel worksheet.	
	• Enter text and formulas in to	an Excel spreadsheet.	
	• Learn about create formulas	and functions; use formatting features; and generate charts, graphs, an	d
	reports.		
ylla	bus- Theory		
Init		Content	Н
	Introduction to Excel: About Exc	el & Microsoft, Uses of Excel, Excel software, Spreadsheet window	3
	pane, Title Bar, Menu Bar, Stan	dard Toolbar, Formatting Toolbar, the Ribbon, File Tab and Backstage	
	View, Formula Bar, Workbook W	/indow, Status Bar, Task Pane, Workbook & sheets	
	Columns & Rows: Selecting Co	lumns & Rows, Changing Column Width & Row Height, Autofitting	7
	Columns & Rows, Hiding/Unhi	ding Columns & Rows, Inserting & Deleting Columns & Rows, Cell,	
	Address of a cell, Components o	f a cell – Format, value, formula, Use of paste and paste special.	
	Creating Formulas: Using Formu	ulas, Formula Functions – Sum, Average, if, Count, max, min, Proper,	
	Upper, Lower, Using AutoSum	, , , , , , , , , , , ,	
	Spreadsheet Charts: Creating Ch	parts Different types of chart. Formatting Chart Objects, Changing the	7
	Chart Type Showing and Hiding	the Legend Showing and Hiding the Data Table	'
	Data Analysis: Sorting Filter Tex	t to Column. Data Validation	
	Data Analysis. Softing, Filter, Te	Manipulating a DivotTable Liging the DivotTable Teelbar Changing	
	Pata Field Properties Displayin	a DivetChart Setting DivetTable Ontions Adding Subtotals to	5
	Data Field, Properties, Displaying	g a Protenant, setting Protrable Options, . Adding subtotals to	
	Pivot rables		-
	Spreadsneet Tools: Moving betw	veen Spreadsneets, Selecting Multiple Spreadsneets, Inserting and	5
	Deleting Spreadsheets Renamin	ng Spreadsheets, Splitting the Screen, Freezing Panes, Copying and	
	Destine Dete le struce en Conservateles	eets, Hiding , Protecting worksheets	
	Pasting Data between Spreadshe		
lefer	ences:		
lefer	ences: Microsoft Excel 2016 Step by Ste	p by Curtis Frye	

		GANPAT UNIVERSITY	
		FACULTY OF PHARMACY	
Progr	amme	Pharmacy	
Effect	ive for the batch Admitted in	2018-2019	
Subje	ct Name	Green Chemistry	
Subje	ct code	PVC10	
Cours	e Objective:		
This of gener	course deals with the design or ation of hazardous substances.	f chemical products and processes that reduce or eliminate the us	se or
Learn	ing Outcome:		
Upon	completion of this course, stude	ents will acquire knowledge about	
•	To explain the environment p	ollution factors and the concerns.	
•	Understand the different gree	ener approaches along with their principles.	
•	Importance of various green of	hemical synthesis	
Syllab	ous - Theory		
Unit	Content		Hrs
1	Introduction to green chemi description with examples. Sy microwave, ultrasonic, catalyt	stry: history and development, Principles of green chemistry: ynthetic approaches of green chemistry: in water, solvent less, ic and synthesis.	6
2	In water and solvent less, org the Michael reaction and Wur in green chemistry strategies.	canic reactions: In water reactions, principle and process involved in tz synthesis Solvent less organic synthesis: Alternative solvents used	6
	Microwave and ultrasonic m	nediated reactions: Introduction, principles and applications of	6
	Microwave, Ultrasonic medi	ated reactions: principles and process involved in the Fries	
	rearrangement, Diels Alder re and process involved in the Stu	action and Metal halide reduction, Ultrasonic reaction: principle recker and Reformatsky reactions	
3	Catalytic and solid supported principle and process involved catalysts, Solid supported read chemistry strategies.	reactions : Principles and applications of Catalytic reactions, in the reactions catalysed by metal catalysts, ionic liquids and bio ctions: principles and process Alternative reagents used in green	6
4	Greener synthesis of pharma Nicotinic acid, Ibuprofen, para	aceuticals: Principle and procedure of the following synthesis cetamol, Aspirin Future trends in Green chemistry.	6
Refer	ences		-
1	New trends in green chemistr 2004.	y by Alluwalia V.K, M. Kidwai, 2 nd edn, Anamaya Publishers, New I	Delhi,
2	Green chemistry: theory and p 1988	ractice by Paul T Anastas, John Charles Warmer, Oxford university F	ress,
3	Green chemistry: environment Delhi, 2012.	ally benign reactions by V.K, Alluwalia, 2 nd edn, Ane Books Pvt Ltd,	New
4	Green Chemistry: An Introducti	on by Sujata Sengupta, Prestige Publishers (2019).	
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		GANPAT UNIVERSITY	
		FACULTY OF PHARMACY	
Progr	amme	Pharmacy	
Effect	ive for the batch Admitted in	2019-2020	
Subje	ct Name	Functional Food and Nutraceuticals	
Subje	ct code	PVC11	
Cours	e Objective:		
٠	The subject involves the funda	mentals of nutraceuticals and functional food such as their definition	,
•	classification, market value and	d regulatory requirements	
Learn	ing Outcome:		
•	Describe functional food and r	nutraceuticals	
•	Understand the evolution of n	utraceutical market	
٠	Explain Probiotics and prebioti	cs	
٠	Understand isolation of phytoe	constituents	
Syllab	ous - Theory		
Unit	Content		Hrs
1	 Nutraceuticals and function nutraceuticals and function Classification of nutraceutic 	nal Foods –Definition, concept, history and market; Evolution of al foods market. cals and functional foods.	6
	Significance and relevance diseases and disorders.	of nutraceuticals and functional foods in the management of	
2	 Natural occurrence of cert acids, carotenoids, dietary f Dosage for effective contro animals and humans; acute Regulatory issues. 	ain phytochemicals- Antioxidants and flavonoids: omega – 3 fatty fiber, phytoestrogens; glucosinates; organosulphur compounds. ol of disease or health benefit with adequate safety; studies with and chronic studies.	6
	 Isolation of phytochemicals with minimal damage to se Extractive methods for ma active material Recent developments in the 	from plant materials: Care in handling and storage of raw materials nsitive bioactive compounds; ximum recovery and minimal recovery and minimal destruction of e isolation, purification and delivery of phytochemicals.	6
3	 Probiotics: Definition, type health benefits; developr Challenges and regulatory i Prebiotics: Prebiotic ingred health benefits of prebiotic 	es and relevance; Usefulness in gastro intestinal health and other nent of a probiotic products; recent advances in probiotics; ssues related to probiotic products. ients in foods; types of prebiotics and their effects on gut microbes; s: recent development in prebiotics	6
4	 Functional foods - Definition appropriate form with prote Effects of processing conditi 	n, development of functional foods, use of bioactive compounds in active substances and activators ons and storage	6
Refer	ences		
1	Wildman, Robert. Nutraceutical	ls and Functional Foods, second edition. Taylor and Francis Group. 200)7.
2	Gibson GR & William CM. Functi	onal Foods - Concept to Product. 2000.	
3	Goldberg I. Functional Foods: De	esigner Foods, Pharma Foods. 1994.	
		tritional Genomics: Impact on Health and Disease Wiley VCH 2006	
4	Brigelius-Fione, J & Joost HG. Nu	tertional denomics. Impact on realth and Disease. Whey veril 2000	

GANPAT UNIVERSITY						
FACULTY OF PHARMACY						
Prog	ramme	Pharmacy				
Effec	tive for the batch Admitted in	2019-2020				
Subje	ect Name	Hospital Management				
Subje	ect code	PVC12				
Cours	se Objective:					
The s	ubject involves how health care i	nstitutions are organized and governed, the role of the management	staff,			
physi	cians, nurses and other clinical	and support staff in the organizations, and the management sys	tems			
learr	ning Outcome:					
Lean	Linon completion of this cours	e students will acquire knowledge about				
	Learn the concents and theori	es in health care management				
•	Develop skills in using materia	is tools and/or technology central to health care management				
•	Understand the perspectives :	and values of health care management:				
•	Develop the basic management	nt skills and ability to work productively with others				
Svlla	ous - Theory					
, Unit	Content		Hrs			
1	Fundamentals of healthca	re administration: Definition, functions and structure of	5			
	healthcare administration					
2	Healthcare policies and reg	ulations	4			
	Administration of hospita management	Is and health care planning: Objectives, planning and	7			
3	Financial management and allocation of overhead cost,	inventory control in hospitals: Direct and indirect cost, analysis of marginal costing and unit costing, aims, objectives	7			
	and scope of inventory control					
4	Organization and manager	nent of hospitals: Unique features of hospital management	7			
	functions, organizational co	ncepts and processes, behavioral concepts and theories				
Refe	rences					
1	Introduction to healthcare man	agement by Sharon B, Buchbinder and Nancy H. Shanks				
		a the same and a size time to be use NA Cinton 7th a dtion				
2	The strategic management of he	ealthcare organization by Ptere M. Ginter, 7 th edition				

		GANPAT UNIVERSITY	
		FACULTY OF PHARMACY	
Progr	amme	Pharmacy	
Effect	tive for the batch Admitted in	2019-2020	
Subje	ect Name	Herbal Cosmetics	
Subje	ect code	PVC13	
Cours	se Objective:		
The s	ubject involves the fundamental	s of herbal cosmetics such her used in skin & hair care, extraction	i and
incor	poration of extract in cosmetics,	standardization and analysis of herbal cosmetics and regulatory	
requi	rements.		
Learn	ing Outcome:		
Upon	completion of this course, stude	nts will acquire knowledge about	
•	Understand the skin and hair a	natomy ,physiology and their diseases	
•	Know various herbs used for sk	(In & hair care	
•	Explain methods of extraction,	ments for herbal cosmetics manufacture as well as import-Export	
Syllat	nus - Theory	ments for herbar cosmetics manufacture as well as import Export	
Unit	Content		Hrs
1	i) Skin: Anatomy and Phy	siology of skin and annendages. Hair Nail Sebaceous Gland Sweat	6
T	Gland	slobgy of skill and appendages. Hall, Nall, Sebaceous Gland, Sweat	0
	ii) Common Dermatologic	al Diseases and Therany : Acne Alonecia, Dermatitis (Atonic	
	Contact) Dry skin Hypernig	mentation and Hyponigmentation dermatitis and Dandruff Sun	
	reaction and protection	sinchation and hypopignentation, dermatics and bandran, sur	
2	i) Commonly used herbal	raw materials, preservatives, surfactants, humectants, oils, colors	8
-	and some functional herbs		
	ii) Aloe, Tulsi, Neem, Bra	ahmi, Manjistha, Jatamansi, Hibuscus, Amla Heena, Bhringaraja ,	
	Ritha, Shikakai, Almond oil, C	Coconut oil, Olive oil, , Wheat Germ Oil,	
	i) Extraction of active prin	nciples of herbs by various methods	6
	ii) Standardization and ev	aluation of prepared extracts	
3	i) Incorporation of prepa	red extracts in various cosmetics formulations like creams, lotions,	6
•	powders & other cosmetics f	formulations.	
	ii) Evaluation of herbal co	smetics such as cream, lotion, shampoo, toothpaste etc.	
4	i) Regulatory Provisions Penalties,	Relation to Manufacture of Cosmetics License, GMP, offences &	4
	ii) Import & Export of Her	bal/natural cosmetics,	
	iii) Industries involved in tl	he production of Herbal/natural cosmetics	
Refer	rences		
1	New trends in green chemistry 2004.	by Alluwalia V.K, M. Kidwai, 2 nd edn, Anamaya Publishers, New I)elhi,
2	Green chemistry: theory and pr 1988	actice by Paul T Anastas, John Charles Warmer, Oxford university F	ress,
3	Green chemistry: environmenta Delhi, 2012.	lly benign reactions by V.K, Alluwalia, 2 nd edn, Ane Books Pvt Ltd,	New
4	Green Chemistry: An Introductio	n by Sujata Sengupta, Prestige Publishers (2019).	
5	Handbook of Green Chemistry: C	Green Products by Paul T Anastas, Wiley Publications, 2012.	

Schedule - A IPDC Course Introduction

The Integrated Personality Development Course – An Introduction

The Integrated Personality Development Course has been designed, by the BAPS Swaminarayan Sanstha, to help prepare college students in their holistic development. This course supports the requirements of the New Education Policy (NEP), to *"build character, enable learners to be ethical, rational, compassionate, and caring, while at the same time prepare them for gainful, fulfilling employment"*. Easily integrated into students' university syllabus, IPDC effectively teaches essential values, develops inner character, strengthens morality, and nourishes constructive and creative thinking. Through this course, students can enjoy, understand, and practice priceless lessons, giving them the tools to build a brighter future.

Envisioned by Students, for Students

Our IPDC developers surveyed many students to understand the learning needs of students today. "Exciting", "relatable", "interactive", "enjoyable", "tangible" – this is what they wanted and so that is exactly what we are delivering.

Value-Based Transformation

DABAD

IT STATE

We believe that along with academics and practical skills, a student's holistic development should be built on a strong foundation of core character values such as positivity, resilience, humility, and responsibility. This empowers youths to successfully progress in all aspects of their lives.

Engaging Modern Mediums

We have replaced the traditional lecture style with a high-tech learning experience. Our expert team of producers has introduced captivating short films, interactive visuals, dramatic narratives, and ultra-high-definition (4K) shots, enabling students to effectively engage with every topic.

Trusted & Effective Content

What do you get when you combine decades of experience and research, along with a passion for youth development? You get IPDC! The IPDC content, design, and development was a global undertaking, bringing together a team of academics and youth development experts from around the world. The content has been curated especially for students, with the purpose of life-long retention and application.

IPDC Logo -



IPDC Tagline –

Unleashing Inner Potential.

MEDABAD REG NO. : 57/2020

19

Introductory Resources

IPDC in 2 Minutes [https://baps.app.box.com/v/ipdc-intro-video]

Lecturer Glimpse | IPDC - YouTube

IPDC Impact 2020 - 1 | IPDC - YouTube

Rationale

IPDC aims to prepare students for the modern challenges they face in their daily lives. Promoting fortitude in the face of failures, unity amongst family discord, self-discipline amidst distractions, and many more priceless lessons.

The course focuses on morality and character development at the core of student growth, to enable students to become self-aware, sincere, and successful in their many roles - as an ambitious student, dependable employee, caring family member, and considerate citizen.

Course Outcomes

- To provide students with a holistic value-based education that will enable them to be successful in their academic, professional, and social lives.
- To give the students the tools to develop effective habits, promote personal growth, and improve their wellbeing, stability, and productivity.
- To allow students to establish a stronger connection with their family through critical thinking and the development of qualities such as unity, forgiveness, empathy, and effective communication.
- To provide students with soft skills that complement their hard skills, making them more marketable when entering the workforce.
- To enhance awareness of India's glory and global values, and to create considerate citizens who strive for the betterment of their family, college, workforce, and nation.
- To inspire students to strive for a higher sense of character by learning from role models who have lived principled, disciplined, and value-based lives.

Course Structure

The Integrated Personality Development Course (IPDC) will be conducted over two semesters, with each semester containing, 30 lecture hours. The course will be credit-based – with each semester worth two credits. This course should start from the second or third semester of the university degree.





IPDC Syllabus –

BAD STATE J.: 2020



IPDC-1 (Semester-1)

Lecture No.	Module -Lecture	Lecture Description
Induction	The Need for Values	Students will learn about the need for values as part of their holistic development to become successful in their many roles - as ambitious students, reliable employees, caring family members, and considerate citizens.
1	Remaking Yourself - Restructuring Yourself	Students learn how self-improvement enables them to secure a bright future for themselves. They will learn 6 powerful thought-processes that can develop their intellectual, physical, emotional, and spiritual quotients.
2	Remaking Yourself - Power of Habit	Students will undergo a study of how habits work, the habits of successful professionals, and the practical techniques that can be used to develop good habits in their life.
3	Learning from Legends- Tendulkar & Tata	Students will learn from the inspirational lives of India's two legends, Sachin Tendulkar and Ratan Tata. They will implement these lessons through relatable case studies.
4	From House to Home- Listening & Understanding	Active listening is an essential part of academic progress and communications. Students will learn to listen with their eyes, ears, mind, and heart.
5	Facing Failures- Failures are not Always Bad	Failure can be a daily source of fear, negativity, and depression. Through the study of successful figures, students will learn to see failures from a positive perspective.
6	Facing Failures- Significance of Failures	Life's challenges and struggles can be harnessed as formative learning experiences. Students will be given constructive skills to achieve this.
7	My India My Pride- Glorious Past - Part 1	India's ancient Rishis, scholars, and intellectuals have made tremendous contributions to the world, they developed an advanced, sophisticated culture and civilization which began thousands of years ago. Students will learn the importance of studying India's glorious past so that they could develop a strong passion and pride for our nation.
8	My India My Pride- Glorious Past - Part 2	Our ancient concepts can be used to seek revolutionary ideas and to generate inspiration. Students will develop a deeper interest in India's Glorious Past – by appreciating the need to read about it, research it, write about it, and share it.
9	Learning from Legends- A.P.J. Abdul Kalam	Dr. Kalam's inspirational life displayed legendary qualities which apply to students (1) Dare to Dream (2) Work Hard (3) Get Good Guidance (4) Humility (5) Use Your Talents for the Benefit of Others
10	Soft Skills- Networking & Leadership	Students are taught the means of building a professional network and developing a leadership attitude.
11	Soft Skills- Project Management	Students will learn the secrets of project management through the Akshardham case study. They will then practice these skills through an activity relevant to student life.
12	Remaking Yourself- Handling Social Media	Students will learn how social media can become addictive and they will imbibe simple methods to take back control.
13	Facing Failures- Power of Faith	Students will learn about the power and necessity of faith in our daily lives.
14	From House to Home- Bonding the Family	Students will understand the importance of strong family relationships. They will learn how to overcome the generation gap and connect with their family more.
15	Selfless Service- Seva	Students will learn that performing Seva is beneficial to one's health, wellbeing, and happiness. It also benefits and inspires others.

g.

Wheel



IPDC-2 (Semester-2)

Lecture No.	Module -Lecture	Lecture Description
16	Remaking Yourself- Begin with the End in Mind	Students will learn to visualize their future goals and will structure their lives through smart goals to give themselves direction and ultimately take them to where they want to go.
17	Remaking Yourself- Being Addiction-Free	Students will explore the detrimental effects of addictions on one's health, personal life, and family life. They will learn how to take control of their life by becoming addiction free.
18	Selfless Service- Case Study: Disaster Relief Work	Students will apply previous lessons of Seva, to analyze the case study of the Bhuj earthquake relief work.
19	Soft Skills- Teamwork & Harmony	Students will learn the six steps of teamwork and harmony that are essential for students' professional and daily life.
20	My India My Pride- Present Scenario	To implement the transformation of India from a developing country into a developed country it is necessary to have a value- based citizen. Students will see how the transformation to a greater India relies on the vision and efforts of themselves as a youth.
21	Learning from Legends- Leading Without Leading	Students will explore a new approach to leadership, through humility.
22	My India My Pride- An Ideal Citizen - 1	Students will learn that to become value-based citizens, they must first develop good values in their lives. They start by exploring the values of responsibility and integrity.
23	My India My Pride- An Ideal Citizen - 2	Students will learn that by developing the values of loyalty, sincerity, and punctuality; they become indispensable and can leave a strong impression. They will start developing these values by trying to keep perfection in every small task and by looking at the bigger picture.
24	Facing Failures Timeless Wisdom for Daily Life	Students will learn the role wisdom plays in finding long-term stability. They will use ancient wisdom to solve their modern-day challenges.
25	From House to Home- Forgive & Forget	Students will understand the importance and benefits that forgiveness plays in their personal and professional life. They will learn to apply this knowledge in realistic situations.
26	Remaking Yourself- Stress Management	Students will learn to cope with current and future causes of stress.
27	Remaking Yourself- Better Health Better Future	A healthy body prevents disease and stress; increases positivity, productivity, and brainpower. Students will learn to maintain good health through regular exercise, healthy eating habits, and regular and sufficient sleep.
28	Learning from Legends - Words of Wisdom	A panel of learned and experienced mentors will personally answer practical questions that students face in their daily life.
29	Soft Skills – Financial Planning	Students will develop a variety of practical financial skills that prepare them to become financially stable throughout their future careers.
30	Remaking Yourself Impact of Company	Students will understand that the type of company that we keep, has a crucial role in determining who we are and who we will become. They will develop the ability to create a positive environment around them.
Concluding	Life After IPDC	This concluding lecture encourages students to keep practicing these priceless lessons and prepares them for the next steps in their lives.

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Lecture Structure



The IPDC lectures will take place in the college classrooms and will be hosted by a universityappointed course instructor. The resources will be provided by BAPS. Each lecture has four components as shown below:

Introductory Film

Each lecture begins with a short film that introduces the topic through modern production. The original content displays relatable scenarios and visuals that captivate the students' attention and stimulates their curiosity to learn more.

Lecture Video

Students watch a lecture video presented by a dynamic speaker. The lecture reinforces the significance and necessity of fundamental principles and skills. The experience of the speaker, eloquence of presentation, and use of interactive visuals collectively create a profound impact on each student's mind and heart.

Student Interaction

Student interaction sessions promote stimulating discussion and conversation and help create safe spaces for the healthy exchange of ideas. Thus, each session provides a forum in which students can openly express their emotions and thoughts.

Workbook Activities

Workbooks assist students to begin implementing the values taught in the lecture into their personal lives. Reliable research, priceless experience, practical scenarios, and reflective questions are innovatively depicted, motivating students to contemplate and think creatively.

Teaching Scheme		ching Scheme Credits Examination Marks						
L	т	ТРС	Theory	eory Marks Practical		al Marks	Total Marks	
				CE	SEE	CE	SEE	1
2	0	0	2	100	00	00	00	100

Teaching and Examination Scheme**:

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; CE-Continuous Evaluation; SEE- Semester End Examination;

** Both semesters (IPDC-1 and IPDC-2) have same teaching and examination scheme.

The assessments should include both continuous evaluation and end-of-semester examinations. The weightage of which will be according to the university's recommendation. The assessment scheme should include student attendance and involvement, assignments, mid-term exams, viva, workbook submission, and end-of-semester examinations.



COURSE MATERIAL / MAIN COURSE WORKBOOK -* There will be one workbook for each semester.

- 1. IPDC Workbook-1
- 2. IPDC Workbook-2

IPDC REFERENCES -

These are the reference material for the IPDC lectures.



	Mo dule	Module	Lectures	References
TAPI J. MOO UTY DABAD IT STATE NO.: 1/2020	1	Facing Failures	 Failures are not Always Bad Significance of Failures Power of Faith Timeless Wisdom for Daily Life 	 Thomas Edison's factory burns down, New York Times Archives, Page 1, 10/12/1914 Lincoln Financial Foundation, Abraham Lincoln's "Failures": Critiques, Forgotten Books, 2017 J.K. Rowling Harvard Commencement Speech Harvard University Commencement, 2008 Born Again on the Mountain: A Story of Losing Everything and Finding It Back, Arunima Sinha, Penguin, 2014 Failing Forward: Turning Mistakes Into Stepping Stones for Success, John C. Maxwell, Thomas Nelson, 2007 Steve Jobs: The Exclusive Biography Paperback, Walter Isaacson, Abacus, 2015 Failing Forward: Turning Mistakes Into Stepping Stones for Success, John C. Maxwell, Thomas Nelson. 2007
	2	Learning from Legends	1.Tendulkar & Tata 2.Leading Without Leading 3. A.P.J. Abdul Kalam 4. Words of Wisdom	 Chase Your Dreams: My Autobiography, Sachin Tendulkar, Hachette India, 2017 Playing It My Way: My Autobiography, Sachin Tendulkar, Hodder & Stoughton, 2014 The Wit and Wisdom of Ratan Tata, Ratan Tata, Hay House, 2018 The Tata Group: From Torchbearers to Trailblazers, Shashank Shah, Penguin Portfolio, 2018 The Leader Who Had No Title, Robin Sharma, Jaico Publishing House, 2010 In the Joy of Others: A Life-Sketch of Pramukh Swami Maharaj, Mohanlal Patel and BAPS Sadhus, Swaminarayan Aksharpith, 2013
	3	My India My Pride	 Glorious Past - 1 Glorious Past - 2 Present Scenario An Ideal Citizen - 1 An Ideal Citizen - 2 	 Rishis, Mystics, and Heroes of India, Sadhu Mukundcharandas, Swaminarayan Aksharpith, 2011 Physics in Ancient India, Narayan Dongre, Shankar Nene, National Book Trust, 2016 <u>The Rise of Civilization in India and Pakistan,</u> Raymond Allchin, Bridget Allchin, <u>Cambridge University Press</u>, 1982 The Āryabhalīya of Āryabhalīa: An Ancient Indian Work on Mathematics and Astronomy (1930), Walter Eugene Clark, University of Chicago Press, reprint, Kessinger Publishing, 2006
	4	Remaking Yourself	 Restructuring Yourself Power of Habit Being Addiction-Free Begin with the End in Mind Handling the Devil – Social Media Impact of Company 	 Power of Habit, Charles Duhigg, Random House Trade Paperbacks, 2014 Change Your Habit, Change Your Life, Tom Corley, North Loop Books, 2016 The Seven Habits of Highly Effective People, Stephen Covey, Simon & Schuster, 2013 Seven Habits of Highly Effective Teens, Sean Covey, Simon & Schuster, 2012 Atomic Habits, James Clear, Random House, 2018 How a handful of tech companies control billions of minds every day. Tristan Harris, TED Talk. 2017

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5	From House to Home	1.Bonding the Family 2.Forgive & Forget 3.Listening & Understanding	 "What Makes a Good Life? Lessons from the Longest Study on Happiness", R. Waldinger, Ted Talks, 2015 Long Walk To Freedom, Nelson Mandela, Back Bay Books, 1995
6	Soft Skills	1.Teamwork & Harmony 2.Networking & Leadership 3.Stress Management	 Outliers, Malcolm Gladwell, Back Bay Books, 2011 The 17 Indisputable Laws of Teamwork, John Maxwell, HarperCollins, 2013 Team of Teams: New Rules of Engagement for a Complex World, Stanley McChrystal, Portfolio, 2015
		4. Financial Planning 5. Project Management	 Predictably Irrational, Revised and Expanded Edition: The Hidden Forces That Shape Our Decisions, Dan Ariely, Harper Perennial, 2010
7	Selfless Service	1.Seva 2.Case Study: Disaster Relief Work	 Open: An Autobiography, Andre Agassi, Vintage, 10 August 2010 The Physiological Power of Altruism [online], James Hamblin, The Atlantic, December 30, 2015, <u>https://www.theatlantic.com/health/archive/2015/12/altr</u><u>uism-for-a-better-body/422280/</u>[last accessed June 10, 2020] TBI Blogs: From Entrepreneurs to Doorkeepers, Everybody Serves with Love & Warmth at This Ahmedabad Café [online], The People Place Project, The Better India, May 29, 2017, <u>https://www.thebetterindia.com/102551/small-way-serve-ahmedabad-seva-cafe/</u>, [last accessed June 10, 2020]



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MOU Agreement IPDC for Ganpat University 24-02-2021.doc

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Confirmation of Acceptance of IPDC Course

We are pleased to inform you that we would like to consider the IPDC course at our University as the course will be very supportive in enriching the character of our students who are the future of this country.

At Ganpat University we always aim for the overall development of our students. After going through the presentations and course structure of IPDC, we believe that this course can be a great direction to our students in strengthening their career morally and ethically in the society.

With the consideration of following points -

- University would like to introduce IPDC course with students who will be enrolled from next semester in streams of B.E, B.Pharm., BCA, BBA, B.Com., LLB, B.Sc., Diploma, D.Pharm, in colleges 13 with approximate students strength of 500.
- University assures of providing full support in implementing the IPDC course which includes all Technical parameters such as -audio-video set up for productive learning and habitual local support in rolling out the course from time to time.
- For the optimistic outcome of the course we will be recruiting ideal candidate who believes in value based education and is engrossed in building the character of student by promoting and helping students to imbibe the significance of values in interactive manner, along with good communication and convincing skills. Our candidate will sincerely attend the training provided by IPDC team for better outcome of the course.
- As discussed earlier in the meeting BAPS will provide all IPDC Literature (Videos and Workbooks) for running course at university. For joining the course we are ready to pay the charges as per following -

Course registration fees (i.e. 150 Rs. per semester per student),

Course material i.e. IPDC Workbook cost as per quantity.

Expenses for 'Train the trainer' program for course Instructor.

We would like to go ahead with the next step of signing a Memorandum of Understanding (MOU) between both the parties.

Dr. Mahendra S. Sharma Pro Chancellor & Director General Ganpat University



TYPE of AWARD	EXTRA CREDIT IN MARKSHEET
TITLE	 UNIVERSAL HUMAN VALUE (INTEGRATED PERSONALITY DEVELOPMENT COURSE-1) UNIVERSAL HUMAN VALUE (INTEGRATED PERSONALITY DEVELOPMENT COURSE-2)
SHORT CODE	UHV1IPDC1 UHV2IPDC2
DURATION	30 Hrs. per Semester
MINIMUM BATCH SIZE	20
COMMENCEMENT OF BATCH	Semester 2 and Semester 3 of Every Diploma and UG Program
COURSE FEE	Rs. 150/- per semester course registration fee
LOCATION	GANPAT UNIVERSITY
LECTURE TIMING	As prescribed in the Time-table
IN ASSOCIATION WITH	BAPS Swaminarayan Sanstha
RESOURCE PERSON(S) (Concise profile need to be annexed in copiable content format)	Please refer the Annexure
FINANCIAL SHARING (from <u>SURPLUS OF THE</u> <u>COURSE</u>)	Not Applicable

OBJECTIVE & SCOPE

This course aims to prepare students for the modern challenges they face in their daily lives. Promoting fortitude in the face of failures, unity amongst family discord, self-discipline amidst distractions, and many more priceless lessons. This two-semester, credit-based course, focuses on moral and character development at the core of student growth, to enable students to become self-aware and sincere in their many roles - as an ambitious student, dependable employee, caring family member, and considerate citizen.

COURSE COVERAGE

The program covers key topics of Remaking Yourself, Soft Skills, Learning from Legends, Facing Failures, From House to Home, My India My Pride and Selfless Service. Students are inspired to give up bad habits such as

laziness and overuse of social media through the growth of effective habits. This module will inspire growth through time management, positive thinking, self-reliance, foresight, and an active lifestyle. Through the teachings of constructive communication, teamwork, effective planning, self-awareness, and dedication, students become fully prepared to implement their role in any collaborative network. The lives and works of legends, such as Ratan Tata and Abdul Kalam, leave an everlasting impression. Their principled, disciplined, and value-based lives, inspiring youth to strive for a higher sense of character. This module also includes a session with a panel of experts, who will answer practical questions that students face in their daily lives. Failure is a student's daily source of fear, negativity, and depression. Through the study of successful figures such as Disney, Lincoln and Bachchan, this module enables youth to persevere, self-improve, and keep faith. An enlightening revelation of the glory of India's past and current achievements, invigorates the youth to become ideal citizens while practicing a value-based life for the betterment of their life, family, college, career, and nation. The students explore the phenomenon of Seva – selfless acts of kindness, the tradition of giving, and the joy of bringing happiness to others. These concepts are brought to life through the study of awe-inspiring and heart-touching acts of humanitarian relief provided during the 2001 Gujarat earthquake. The students are taught to establish a stronger connection with their family through critical thinking and devolvement of qualities such as unity, forgiveness, empathy, and effective communication.

LEARNING OUTCOME OF THE COURSE

- To provide students with a holistic value-based education that will enable them to be successful in their academic, professional, and social lives.
- To give the students the tools to develop effective habits, promote personal growth, and improve their wellbeing, stability, and productivity.
- To allow students to establish a stronger connection with their family through critical thinking and devolvement of qualities such as unity, forgiveness, empathy, and effective communication.
- To provide students with soft skills that complement their hard skills, making them more marketable when entering the workforce.
- To enhance awareness of India's glory and global values, and to create considerate citizens who strive for the betterment of their family, college, workforce, and nation.
- To inspire students to strive for a higher sense of character by learning from role models who have lived principled, disciplined, and value-based lives.

CAREER OPPORTUNITIES

Participants will get a chance to lead the industries in the area of project management and to help the organization to minimize time overrun and cost overrun at the same time ensuring the quality.

TEACHING METHOD / PEDAGOGY

The methodology throughout this course will be a blend of key theoretical concepts and practical aspects of it. The training flow will have an interactive sessions based on real-life examples.

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CONTENT (UNITS)

IPDC: 1

Unit No	Topic Name	Total No of Hours
01	Restructuring yourself	02
02	Power of habit	02
03	Learning from Legends- Tendulkar & Tata	02
04	Project management	02
05	Affectionate relationships	02
06	Forgive and Forget	02
07	Failures are not always bad	02
08	Factors affecting failures	02
09	Being addiction free	02

10	Teamwork and Harmony	02
11	Handling the devil – Social media	02
12	Listening & Understanding	02
13	Basic of Financial Planning	02
14	Networking, Decision making, Leadership	02
15	Life after IPDC	02
	Total Hours	30

IPDC: 2

Unit No	Topic Name	Total No of Hours
01	Insignificance of failures	02
02	The power of faith	02
03	Practicing faith	02
04	Bonding the family	02
05	Leading without leading	02
06	Words of wisdom	02
07	Glorious Pas: Part 1	02
08	Glorious Pas: Part 2	02
09	Present scenario	02
10	Begin with the end in mind	02

11	An ideal citizen : 1	02
12	An ideal citizen : 2	02
13	APJ Abdul Kalam	02
14	Writing a Resume	02
15	Student Voice	02
	Total Hours	30

ELIGIBILITY OF THE PARTICIPANTS

Ganpat University Full time Enrolled Student

ASSESSMENT

Teaching and Examination Scheme:**

Teaching Scheme		Credits	Examination Marks					
L	Т	Р	С	Theory	Marks	Practical Marks		Marks
				CE	SEE	CE	SEE	
2	0	0	2	100	00	00	00	100

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; CE-Continuous Evaluation; SEE- Semester End Examination;

** Both semesters (IPDC-1 and IPDC-2) have same teaching and examination scheme.

Hands on Project: Participants will get a chance to have hands on practice through Workbook Activities.

PROFILE OF RESOURCE PERSON



EDUCATION

B.Sc. Biochemistry, University of London, UK

HIGHLIGHTS

- Initiated as a sadhu by Pramukh Swami Maharaj in 1976
- · Proficient orator

EXPERIENCE

Lead sadhu of English Press and Publications Department in BAPS.



EDUCATION

- · Ph.D. in Vachanamrut, main scripture of the Swaminarayan Sampraday
- B.E. Electronics, BVM College of Engineering, Vallabh Vidyanagar, Gujarat

HIGHLIGHTS

- Initiated as a sadhu by Pramukh Swami Maharaj in 1992
- Senior Coordinator of the Integrated Personality Development Course (IPDC)
- · Senior Adhyapak, Sant Training Centre, Sarangpur
- · Principal of BAPS Swaminarayan Sanskrit Mahavidyalay, Sarangpur

EXPERIENCE

- Renowned speaker and writer
- · Member of BAPS Events Coordination Committee.



IPDC Lecturer

EDUCATION

· B.E. Chemical, DDU, Nadiad, Gujarat

HIGHLIGHTS

- Initiated as a sadhu by Pramukh Swami Maharaj in 2001
- · Coordinator of Youth Excellence Centre, Sarangpur
- Project Leader of Integrated Personality Development Course (IPDC)

EXPERIENCE

- Distinguished orator on various topics including world religions, youth empowerment and social responsibility
- Former Coordinator of Akshar Purushottam Chhatralaya, Vallabh Vidyanagar, Gujarat.



EDUCATION

B.E. Mechanical, BVM College of Engineering, Vallabh Vidyanagar, Gujarat

HIGHLIGHTS

- Initiated as a sadhu by Pramukh Swami Maharaj in 1992
- · Popular international speaker at corporate events and youth conferences
- · Lead member of BAPS Public Relations and Outreach Department

EXPERIENCE

- · Has delivered over 15,000 talks across the globe
- Frequent speaker at IIMs, DRDO, DRDL, Reliance Industries Ltd., VCCI, National Psychiatrist Conference, LIONS Club, Rotary Club, Government Conferences, various NGOs and Institutes.



IPDC Lecturer

EDUCATION

B.E. Textile, Maharaja Sayajirao University, Vadodara, Gujarat

HIGHLIGHTS

- Initiated as a sadhu by Pramukh Swami Maharaj in 1998
- · Proficient orator, master of ceremonies, writer and poet
- Renowned orator of Ramcharitmanas, Shrimad Bhagwat and Mahabharat

EXPERIENCE

 Manages and coordinates satsang activities and community projects at BAPS Swaminarayan Mandir, Rajkot.

EDUCATION

- M.A. in Sanskrit and Swaminarayan Vedant
- · B.A. in Sanskrit Bronze Medalist
- B.E. Computer, SCET, Surat, Gujarat

HIGHLIGHTS

- · Initiated as a sadhu by Pramukh Swami Maharaj in 2008
- · Notable Master of Ceremonies and proficient orator

EXPERIENCE

BAPS Cultural Programme & National Events Coordinator.





EDUCATION

- Currently Ph.D. from University of Toronto
- Masters in Theological Studies, Harvard University
- · B.E Computer Science with M.Sc. Physics, BITS Pilani, Rajasthan

HIGHLIGHTS

 Member of the core committee in the construction of Swaminarayan Akshardham, New Delhi, the world's largest Hindu temple

EXPERIENCE

Director and producer of Mystic India, the first ever large format giant screen(IMAX) film on India

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Managed the production of water shows in Gandhinagar and Delhi Akshardham.











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EOI Signing Ceremony

"Bhagavad Gita and It's role in Modern Education"

on Friday, February 26, 2021

02:00 PM to 03:00 PM

Program Schedule

Time	Particular	
02:00 PM to 02:05 PM	Welcome & Program Introduction	
02:05 PM to 02:15 PM	Ceremonial Address By Dr. Mahendra S. Sharma Hon. Pro Chancellor & Director General Ganpat University	
02:15 PM to 02:20 PM	MOU Signing Ceremony	
02:20 PM to 02:50 PM	Distinguished Lecture By His Holiness Gopal Krishna Goswami Maharaj GBC (Governing Body Commissioner) of ISKCON – India & International "Topic: Bhagavad Gita and It's role in Modern Education"	
02:50 PM to 02:55 PM	Vote of Thanks	
02:55 PM to 03:00 PM	University Song	





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Expression of Interest

Between Ganpat University (GUNI)

And

ISKCON (International Society for Krishna Consciousness)

To offer Academic Courses/Programmes related to Bhagavad Gita

We wish to express our interests to form a joint effort as GUNI ISKCON TEACHING ARM (G.I.T.A.) to explore possible areas of research, collaboration and scholarly exchange among students, members, faculty members, departments, and research institutes for inculcating ethics and values in society with following points:

- Ganpat University and the township of Ganpat Vidyanagar, a high-tech education campus is a joint initiative, purely philanthropic in nature, by a large number of industrialists and technocrats, noble farmers and affluent businessmen for the mission of "Social Upliftment through Education". The University is established by the State Government by enactment of Act No.19/2005 on 12th April, 2005. In consideration of its contribution to the Education in a short period of time, the University has been given Permanent Membership of other Associations, such as: Association of Indian Universities (AIU), Member of Association of Commonwealth Universities (ACU), Federation of Indian Chambers of Commerce and Industry(FICCI), All India Management Association (AIMA),Confederation of Indian Industry(CII), Member of International Association of Universities (IAU), Recognized by Department of Scientific and Industrial Research (DSIR); and Govt. of Gujarat appointed Start-up Nodal Institute, Membership of Association of the Universities of Asia and the Pacific (AUAP).
- 2. Whereas the International Society for Krishna Consciousness (ISKCON), otherwise known as the Hare Krishna movement, includes Seven hundred major centres, temples and rural communities, nearly one hundred affiliated vegetarian restaurants, thousands of *namahattas* or local meeting groups, a wide variety of community projects, and millions of congregational members worldwide. Although just fifty years on the global stage, ISKCON has expanded widely since its founding by His Divine Grace A. C. Bhaktivedanta Swami Prabhupada in New York City in 1966.Philosophically it is based on the age old Indian Vedic Sanskrit literature specially *Bhagavad-Gītā and Srimad Bhagavatam*, wherein Universal Principles for the ultimate welfare of humankind are revealed. ISKCON believes that the God is known across the world by many names including Allah, Jehovah, Yahweh, Rama, etc. and promote the Love of God for Spreading the Message of Love among all the souls irrespective of Cast, Colour, Nationality, Religion etc.

- 3. The Vision, Mission and Quality Statement of GUNI is attached herewith (Enclosure-I)
- 4. The Seven Purposes of ISKCON are attached herewith. (Enclosure II)

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- 5. While acknowledging and respecting the differences in each other's speciality, arena, priority and manners, both GUNI and ISKCON also acknowledges the common areas and manners wherein their scope allows them to work together for the overall welfare of Society through Education.
- 6. We agree in working together for those common scope as mentioned in GUNI's key concepts-Inculcation of values (Vision), Symbiotic Emergence (Mission) and Accountable for national Values (Quality Statement) & ISKCON 's Prime Purpose : To systematically propagate spiritual knowledge to society at large and to educate all people in the techniques of spiritual life in order to check the imbalance of values in life and to achieve real unity and peace in the world.
- 7. To meet the understanding as mentioned in above both GUNI and ISKCON expresses their interest to design, develop and implement various programs/ courses in phase wise manners as expressed in **Enclosure III.**
- 8. A Committee for the above purpose will be formed with six members- 3 members from GUNI, 3 from ISKCON. The Committee will discuss, plan, overview, advise, guide, and decide for the important issues like sharing of GUNI's infrastructure, ISKCON's faculty of educators and other important issues. The committee will meet quarterly for execution of this purpose.
- 9. It is desirable that ISKCON will promote Ethics and Values among students by its specific involvement and at the same time It is desirable that GUNI will nurture Ethics & Values through teachings and Leanings from the lessons of Bhagavad Gita (As it is) among students, staff and all other stake holders.
- 10. Both the parties are committed for their best endeavour of the underlying cause. This cause is universal in its very nature, develops respect to Environment, Ecology and Consciousness of inner nature. This leads to the understanding that the entire world is a big family and promote living in cooperation with nature instead of its exploitation. These values are, promoted in Bhagavad Gita.
- 11. Any of the two parties, if override each other's interest, the above Expression Agreement will become automatically null and invalid. Nothing in this Eol will establish an exclusive relationship between the parties and each party may freely elect to engage in research and other initiatives with others.

12. The Agreement is being made with Trust in God and good faith in each other for the pleasure of Almighty, leading to holistic welfare of Students, faculty, and staff of GUNI and both the parties pray to the Almighty for His blessings in this joint endeavour.

Enclosure I: GUNI's Vision, Mission and Quality Statement

Enclosure II: ISKCON's Seven Purposes

Enclosure III: Phase wise List of Programmes offered jointly by GUNI and ISKCON

On behalf of Ganpat University

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Dr. Mahendra Sharma, **Pro Chancellor & Director General**

February 26, 2021

On Behalf of ISKCON

Poper Knishe Pusaca, His Holiness Gopal Krishna Goswami,

GBC - ISKCON

ENCLOSURE I: GUNI's Vision, Mission and Quality Statement

VISION:

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"It shall be the constant endeavour of Ganpat University to meet the education needs of the youth in the areas of professional studies and provide state-of-the-art learning opportunities along with inculcation of values of commitment and uprightness."

MISSION:

"Seek search and offer programs that lead to symbiotic emergence of 'academic excellence' and 'industrial relevance' in education and research."

QUALITY STATEMENT

"It shall be the constant endeavour of the University to deliver global standards of excellence in all its core and allied operations and remaining accountable for national values and objectives of establishment through process of self evaluation and continuous improvement."

ENCLOSURE II: SEVEN PURPOSES OF ISKCON

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- To systematically propagate spiritual knowledge to society at large and to educate all people in the techniques of spiritual life in order to check the imbalance of values in life and to achieve real unity and peace in the world.
- 2. To propagate a consciousness of Krishna (God), as it is revealed in the great scriptures of India, Bhagavad-Gita and Srimad-Bhagavatam.
- 3. To bring the members of the Society together with each other and nearer to Krishna, the prime entity, thus developing the idea within the members, and humanity at large, that each soul is part and parcel of the quality of Godhead (Krishna).
- 4. To teach and encourage the sankirtana movement, congregational chanting of the holy name of God, as revealed in the teachings of Lord Sri Caitanya Mahaprabhu.
- 5. To erect for the members and for society at large a holy place of transcendental pastimes dedicated to the personality of Krishna.
- 6. To bring the members closer together for the purpose of teaching a simpler, more natural way of life.
- 7. With a view towards achieving the aforementioned purposes, to publish and distribute periodicals, magazines, books and other writings.

ENCLOSURE III: Phase wise List of Programs offered jointly by GUNI and ISKCON through G.I.T.A. (Guni Iskcon Teaching Arm)

	Enclosure III: GANPAT UNIVERSITY - ISKCON TEACHING ARM (G.I.T.A.)					
S No.	NAME OF THE COURSE	FACULTY	In Collaboration with			
	PHASE I					
1	Executive Diploma in Bhagavad Gita for Lifestyle Management (Ex D- BGLM)	Management Studies	lskcon Ahmedabad and Iskcon Mehsana			
2	UHV, Open Elective and Skill Enhancement Courses as per Model AICTE and UGC norms (8 Courses are offered as per Annexure I)	Common for all Faculties	Iskcon Ahmedabad and Iskcon Mehsana			
PHASE II						
3	Executive MBA in Bhagavad Gita for Leadership Management (ExMBA- BGLM)	Management Studies	Iskcon Ahmedabad and Iskcon Mehsana			
4	Certificate, Diploma, BS and MS Programs in Consciousness Science, reincarnation Science, Semantic Science etc.	Science	Bhaktivedanta Institute, Iskcon Juhu, Mumbai			
5	PhD Programs	Management, Engineering, Science and Social Science	Bhaktivedanta Research Centre (ISKCON-Wada- Eco Village)			

Annexure I: GANPAT UNIVERSITY - ISKCON TEACHING ARM (G.I.T.A.)					
S No.	Name of the Course Offered	Meeting to which options of Model AICTE and UGC Syllabus			
1	UHV-I & UHV-II along with DYS-BG (Discover Your Self through BHAGVAD GITA)	UHV-I as Mandatory Course & UHV-II as credited Elective for UG and Diploma Students.			
2	6 M Certificate Course in BHAGAVAD GITA for Interpersonal Development (BGID)	Audit / Open Electives / for busy professionals			
3 to 6	Essence of Bhagavad Gita Series for Personality Development: Spiritual Scientist, Positive Thinker, Self- Management and Proactive Leader (BGPD)	As four of the Mandatory Audit/ Elective Subjects for AICTE UG students to develop Universal Citizenship Values			
7	Essence of Indian Knowledge Traditions (EIKT)	As one of the Mandatory subjects for the AICTE UG -PG-Diploma students			
8	Ethical Values for Holistic Life (EVHL)	As one of HSMC/ SEC Subjects for the students of AICTE UG or UGC UG /AICTE PG & Diploma			
Confirmation of Acceptance : Link of Eol between GUNI and ISKCON

UNIVERSAL HUMAN VALUE

TYPE of AWARD	EXTRA CREDIT IN MARKSHEET
TITLE	 UNIVERSAL HUMAN VALUE (Discover Yourself through Bhgavad Gita -1) UNIVERSAL HUMAN VALUE (Discover Yourself through Bhgavad Gita -2)
SHORT CODE	UHV3DYSBG1 UHV4DYSBG2
DURATION	30 Hrs. per Semester
MINIMUM BATCH SIZE	20
COMMENCEMENT OF BATCH	Semester 2 and Semester 3 of Every Diploma and UG Program
COURSE FEE	NIL
LOCATION	GANPAT UNIVERSITY
LECTURE TIMING	As prescribed in the Time-table
IN ASSOCIATION WITH	ISKCON (International Society for Krishna Consciousness)
RESOURCE PERSON(S) (Concise profile need to be annexed in copiable content format)	 Resource Persons involve a blend of regular faculties and Visiting Faculties . All the faculties are chosen who have developed a holistic attitude and try their best to implement the principles in their own life. Thus teaching by example is the prime purpose alongwith lectures. Regular Facilitators : G.K.Tejra ,Professor Ganpat University J. Dr. Alpana Patidar Mr. Gaurav Kumar Mr. Navin Pandey Dr. K.D.Patel Expert Visiting Faculties : Adwait Acharya Das, President Iskcon Mehsna Kalanath Chaitanya Das, President Iskcon Ahmedabad Akshyanand Das B.E.

OBJECTIVE & SCOPE

Besides the objective and scope as mentioned in the UHV web site (<u>http://www.uhv.org.in/uhv-1</u> and <u>http://www.uhv.org.in/uhv-2</u>) there are the higher objectives and scopes in line with the spirit of AICTE's model syllabus' portion about Orientation _ Induction Guide and courses on Humanity, Social Sciences and Management (HSSM).



DISCOVER YOURSELF Through Bhagavad Gita

Universal Adoption of Bhagavad Gita as a Life Book of Practical wisdom , beyond boundary of religion, nation , cast or creed

Bhagavad Gita in AICTE & UGC Model Syllalbus

AtmaNirbhar Bharat and Role of Bhagavad Glta

The course is a fundamental one in a series of courses offered as "Discover Yourself". It's in essence a breakthrough into a joyous journey of life covering a variety of topics from its roots. The biggest joy in one's life is when one finds oneself ! Thus the course digs inside us and first solves the biggest mystery of WHO AM I? One who has found oneself, the entire cosmos belongs to the one and at the same time the one belongs to the entire cosmos. It makes a holistic approach through the time tested spiritual literatures specially the globally acknowledged wisdom book - Bhagavad Gita . This is done without entangling them into narrow religious or sectarian belief and instead adopting their scientific temper as acknowledged by the great people of the world. This leads not only to the universal appeal of Universal love regardless of cast, creed and nation but also clarity of vision and mission of one's life . Finally transforming one into a true Indian citizen with real universal human values.



PROGRAM OBJECTIVES (PO): UHV through DYSBG

	Program Objective : <u>The link for details of Program objectives</u>									
S.N.	Key Concept of PO	Blooms's Triangle	Acronyme - KRISHNA							
1	Scientific knowledge of BG in a Systematic way	Remember	Knowledge							
2	Responsibility of Learning by Respecting Authority	Understand	Realisation							
3	Understanding to Realization									
4	Developing Spiritual Attitude	Apply	Implementation							
5	Personal Application with Academic and Moral Integrity									
6	Theological Application									
7	Class for Mass (Social Service)									

8	Rising to Faith through Evaluation	Analyze and Evaluation	
9	Harmony with Nature (Holistic Life)	Create	Simple-living
10	Holy Association (Team Spirit)		H igh-thinking
11	Vision to Mission via Preaching application (Continuous Improvement)		Nand-ke-ghar
12	Joy of Giving (Self Realization)		Anand

	- Holistic E	Education : A jo	ourney from Trust to Love:20 Knowledge Processes to Acquire 9 Values	
9 Values of UHV	9 Stages of Spiritual Science	BG Chapters	20 Knowledge Processes as per BG 13.8-12	Types of Values
1. Trust (foundation	श्रद्धा	1	अमानित्वं _{Humility}	Learning Values
value)		2A	논쐰 컵 Steadniness (Detemination)	
		2B	अन्भिश्वन्ग: पुत्रदारगृह अदिशु Freedom from entanglement with children, home, wife and the rest (Witness Attitude)	
2. Respect	साधुसंग	3	अत्म्विनग्रह _{Self Control}	
		4	आचार्यांपासनं Approaching a bonafide Spiritual master (Discipline)	
3.Guidance	भजनक्रिया	5	विवक्त देश सेवित्वाम Aspirng to live in a solitary place (Solitude - Soul Attitude)	
		6	इन्द्रिया अर्थेशु वैराग्यं Renunciation of the objects of Sense gratification (Service Attitude)	
4. Care	अनर्थ निवृत्ति	7	सम चितात्वं इष्ट अनिष्ट उप पत्तिशु Even mindedness amidts pleasant and unpleasant events (Soberness)	
		8	शौचं Cleanliness	

5.Reverenc e	নিষ্ठা	9	आर्जवं _{simplicity}	
		10	अध्यात्म ज्ञान नित्यत्वं Accepting the importance of Self Realisation (Adopting a Holistic Education System)	Loving Values
6. Affection	रूचि	11	क्षान्ति _{Tolerance}	
		12	मयी च अक्तिअव्यभिचारिणीः Constant and Unalloyed Devotional service to Supreme (CUDS) :Central Value or the best value around which all other values develop : Developing Loving Service Attutude	
7. Glory	आसक्ति	13	अन्हंकार Absence of False Ego	
		14	असक्ति _{Detachment}	
8. Gratitude	भाव	15	अरतिः जन संसंदी, Detachment from the general mass of people	
		16	अदम्भित्वं Pridelessness	
	प्रेम	17	जन्म जरा व्याधि दुख दोस्शानुदार्शम	Giving Values
9. Love (complete value)		18A	तत्व-ज्ञानार्थ -दर्शनं Philosophical search for the Absolute Truth.	
		18B	अहिंसा Non violence (Edu-CUDS) : Giving or educating others with the Best Value	

Attributes in Education	Present Issue	Modern Trend	Theme in BG
KNOWLEDGE	Environmental Pollution	Sustainable Knowledge	राज विद्या राज गुह्यं (BG 9.2)
SKILL	Mismatching of University Graduate with Modern Industry	OBE (Output Based Education)	योगः कर्मसु कौशलम ((BG2.49)

ATTRIBUTES of Holistic Education	Program	n Objecti	ves		
KNOWLEDGE	PO 1	PO3	PO4		
SKILL	PO5	PO6	PO7	PO10	PO11
VALUE	PO2	PO8	PO9	PO12	

LEARNING OUTCOME OF THE COURSE (CO: Course Objectives)

- 1. Highlight the advantages of having understanding of a life in terms of ethical human conduct leading to a **mutually fulfilling human behavior with Self,Family , Society and Nature**.
- 2. To facilitate the development of a **Holistic Perspective** which forms the basis of universal human values and movement towards value based living in a natural way.
- 3. Saving teenagers from self destructive habits.
- 4. Creating a class of people of **high character** through spirituality and of high competence through self excellence skills with basic and higher principles of Consciousness Science .
- 5. Creating a class of people who respect , trust and love each other , living as **vehicles of practical wisdom**.

Teaching and Examination Scheme**:

Tead	hing Sch	eme	Credits	Examination Marks				
L	т	Р	с	Theory	Marks	Practica	Marks	
				CE	SEE	CE	SEE	
2	0	0	2	100	00	00	00	100

L- Lectures; T- Tutorial/Teacher Guided Student Activity; P- Practical; CE-Continuous Evaluation; SEE- Semester End Examination;

** Both semesters (IPDC-1 and IPDC-2) have same teaching and examination scheme.

Syllabus : UHV1 Syllabus link DYSBG1

UHV2 Syllabus link DYSBG2

					GANP	AT UNIVE	RSIT	Y		
FACULTY OF ENGINEERING & TECHNOLOGY										
Programme		Bachel	or of	Techno	logy/	Branch/Spe	All Bra	All Branches of Engineering, Pharma		
		Diplom	ia / PC	6		С.	Scienc	ce and other UG co	ourses	
Semester	A I	/ 		20	20.24	Version	1.0.0.		NI 2020	
Subject code UHV 2DVS Subject						Effective fo	r the ba	itch Admitted in	Nov 2020	
BG1 Name			me	Discover	oursen	through Bhagavad Gi	ta DYS-BGI			
Teaching sche	me		-			Examinatio	n schen	ne (Marks)		
(Per week)	Lect	ure(DT	Prac Lab.	tical()	Total		CE	SEE (Open Book Assmt & CLosed Book Assmt)	Total	
	L	ΤU	Р	ΤW						
Credit	2	0	0	0	2	Theory	100	0	100	
Hours	2	0	0	0	2	Practical	0	0	0	
Pre-requisites	: Inter	est in se	elf dev	/elopm	ent along	with welfare	e of oth	ers		
and n 2. Creat excel 3. Savin 4. Highl a mu 5. Creat	novem ing a c ence s g teen ght th tually ing a c	ent tow Iass of I kills. agers fro e advan fulfilling lass of p	ards v people om se tages huma eople	alue ba e of hig of hav an beh who r	ased living gh charact uctive hat ing under aviour. espect , tr	in a natural er through s bits. standing of a ust and love	way . pirituali ı life in t <u>each ot</u>	ity and of high co erms of ethical hu her , living as vehic	ompetence th man conduct cles of wisdom	rough self leading to 1.
Theory Syllab	us									
Unit						Content				Hrs
Unit Content 1 Introduction to Value education : a. Introduction : Need , Guideline & Content ; Value of an entity b. Basic requirement for fulfillment of human aspiration:Development of Human Consciousness,Role of Education- Sanskar,The Sanskar to transform Consciousness from animal to humane c. Process of Value Education: Self Exploration d. Exploring the meaning of happiness and prosperity :Realizing Existence as Coexistence at All Levels									2	
Pra Ben reve	ctical 1 efit of ersing	Tip 1 -Int Value	troduc	ction to	o Practical o Student	tips for Value s and to pro	e Educat	tion: Goal of Educ	ation, Major ULTER & its	2

	The modern Challenge : Covid 19 _ Why this ? Way ahead ? Case study : Disrobing the Kauravas.	
2	 Harmony in Human Being: Understanding the human being as a coexistence of Self and body Understanding harmony in the Self : Self as a Consciousness entity and body as the material entity Gross Misunderstanding : Assuming Human being to be only the Body Understanding Harmony in human being Understanding the Harmony of the Self with the Body 	2
	Explore Values : Self Control , Our Blissful Identity	2
	Practical Tip 2 - Dealing with Habits : Types of Habits - Good Habits and Bad Habits, Additions - Causes, Right perception , Power of Good habits.	2
3	 Harmony in the Family : Intention and Competence : Journey From Trust to Love 1. Understanding the Relationship 2. Trust - The foundation value in Relationship 3. Respect - As the Right Evaluation 4. Other naturally acceptable feelings in Relationship 5. Justice in the Relationship 	2
	Practical Tip 3 - Lightening up Values: Value Based Life, Present day materialistic approach , Balance Life wheel , Wisdom Tree, Good foundation to excel in life , Compassion, Love gives but greed takes , Perfect Charity , Contentment , Humility , Love means to give and by giving we receive , Attitude , Failures are the stepping stones for the success, Self Confidence,	2
	Explore Values : Cleanliness /	2
4	 Harmony in Society : 1. Understanding Human Goal 2. Dimension (Systems) of Human Order 3. Universal Human Order - Harmony from Family order to world family Order 4. Process of Development of a Child in an environment of Relationship Five Dimensions of Human Order Tendency to Control and Rule (Domination Vs 	2
	Developing and valuing Inter Relationships Practical Tip 4 -Professional Ethics : What is Ethics, Need of Ethics, Educational Ethics , Missing thing in modern education, Healing the wounded modern world, Values are real valuables, Values for the modern generation. Integrating spirituality with education , Positive and negative attitudes of professionals, Ideal Attitude at work, Step to make your work as worship , Case study : Kansaness and Krishnaness .	2
	Explore Values : Tolerance and Forgiveness , Secret of Smart work	2
5	 Harmony in Nature and Existence : 1. Understanding Harmony in Nature 2. Realising Existence as Coexistence at all levels 3. The Holistic perception of Harmony in Existence 4. Program of Individual Action : Self Exploration , self Awareness and Self Evaluation 	2
	Practical Tip 5 - True Friendship and Love : Who is a friend , Qualities of good friend , Real Friend , Examples of True Friendship , What is Love , True Love means to give , Smiley faces but crying & empty hearts , Love and Lust , Message of Love	2

	Explore Values : Big brain behind the Universe , Divine Knowledge									2		
Practic	Practical Content											
Drama	Practical content								on abovo			
concep	concepts											
Text Bo	Text Books											
1	Value E	ducation	for Your	ng Leade	ers by Pro	of(Dr.) P	. Harikri	NI ⁻ , shna	T -Warar	ngal		
2	Discove	r Yoursel	f by Rad	heshyan	n Das , N	1.Tech , I	IT - Mun	nbai				
Work I	Book :Valı	ue Educa	tion by C	Center fo	or Value	Educatio	on (CVE)) - Pune				
Referen	nce Books	5										
1	Bhagava	ad Gita A	s IT Is by	ACBVS	Prabhup	ad						
2	Voice yo	our Choid	ce by Go	vidn Das	5							
3	Leaders	hip Lesso	ons from	the Bha	agavad G	ita by A	ce V . Sin	npson , B	runel U	niversity	, London	
ICT/MC	DOCs Refe	erence										
1												
Course	Outcome	es:										
COs	At the e	nd of the	e course	Student	s will be	able to	:					
CO1												
	Highligh	nt the ad	vantages	s of hav	ing unde	rstandin	g of a life	e in terms	s of ethic	cal huma	n conduct	
	leading	to a mut	ually fu	lfilling h	uman b	ehavior	with Se	elf,Famil	y , Soci	ety and	Nature.	
CO2												
	To facili	tate the	developr	ment of	a Holis	tic Pers	pective	which for	orms the	e basis of	f universal	
	human	values a	nd move	ment to	wards va	lue base	ed living	in a natu	ral way			
CO3												
	Saving	teenage	rs from s	elf dest	ructive h	abits.						
CO4			-									
	Creating	g a class	s of peo	ple of h	igh cha	racter t	hrough s	spirituality	y and of	f high co	mpetence	
	through	self exc	ellence s	kills with	n basic a	and high	er princi	ples of C	onsciou	sness So	cience	
CO5			_									
	Creating	g a class	s of peo	ple who	respect	,trust	and love	e each ot	her, livi	ng as ve	ehicles of	
	practic	al wisdo	m.									
								~				
	_				Map	ping of C	O and P	0:				
	_											
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11 P	012
CO1	3	2	2	1	1	3	3	3	2	1	0	3
	-	_	_	_	_	_	_	_	_	-		
	3	3	3	0	0	3	2	3	2	1	1	3
CO3	2	2	2	1	1	2	2	3	2	1	1	3
	_	_	—	-	_	—	—	-	_	_	-	
	2	1	1	0	0	3	3	3	3	2	0	3
CO 5	2	2	2	2	3	1	3	3	3	3	3	3
		-	-	-	-	-	-	-	-	-	-	-

					G	ANPAT	UNIVERSI	ТҮ			
FACULTY OF ENGINEERING & TECHNOLOGY											
Progra	mme		Bachelo	or of Te	chnolog	ξγ	Branch/Spec.	All Brai	nches of Engineering	3	
Semes	ter				_		Version	1.0.0.0			
Effecti	ve fron	n Acad	emic Yea	ır	2021	-22	Effective for	the batc	h Admitted in	Nov 2	2020
Subjec	t code		UHV4D	YSBG2	Subje	ect Name	Discover Yo Thinker) I	ourself th	rough Bhagavad Gita II	(Positiv	e
Teachi	ng sche	eme		-			Examination	scheme	(Marks)	-	
(Per w	eek)	Lectu	re(DT)	Pract b.)	ical(La	Total		CE	SEE	Total	
		L	TU	Р	TW						
Credit		2	0	0	0	2	Theory	100	0	100	
Hours		2	0	0	0	2	Practical	0	0	0	
Pre-re	quisite	s: Inter	est in se	elf dev	elopmei	nt along wit	th welfare of o	others			
Object	ives of	the Co	ourse:								
1.											
	<u> </u>										
Theory	/ Syllab I	us								1	1.1.40
Unit	1						ontent			i	Hrs
1	Intro	duction	n to Valu	e Educ	ation :	ation					2
		. Onc Self	Explorat	tion is	the prov	ess of Valu	e Education				
	3	. Bas	ic humar	n aspir	ation an	d their fulfi	ilment				
	4	. Unc	lerstand	ing Ha	ppiness	and Prospe	erity				
				0		•	•				
	Pract	ical Tip	os 1 : Ho	w to c	leal witl	n Stress : A	bout Stress, S	Stress in	young age, Importa	ance of	2
	Stres	s , Caι	uses of S	Stress	, Suicio	le - the pre	esent age stup	oid idea	,Why only Human c	ommit	
	suicio	le, Ho	ow to de	al wit	h crisis i	n our life , /	Art of Tolerand	e , Pract	ical solution for yout	h , Life	
	Style	manag	gement,	Learn	to mana	age the stre	ess				2
	Explo	re Valu	ies : Pos	itive []	, ninking	, Friendline:	ss and See goo	od in oth	ers		2
	Disco	ver the	e game c	of Life ,	Discove	er Inner Self	f				2
2	Unde	rstand	ing the H	larmo	ny at Va	rious levels					2
	5	. Unc	lerstand	ing the	Humar	h beings as	coexistence of	Self and	Body		
	6	. Har	mony in	Self ar	nd unde	rstanding N	⁄lyself				
	7	. Har	mony of	the se	lf with t	he body , S	Self -Regulatio	n & Heal	th		
	8	. Har	mony in	the fa	mily - U	nderstandir	ng values in hu	man - hu	ıman relationship		
	9	. Har	mony in	Societ	y - Unde	erstanding (universal huma	an order			
		U. Har	mony in	Natu	re - Ur	nderstandin	ig the interco	nnected	ness , Self Regulatio	on and	
	1	1. Har	monv in	Fxiste	nce·lln	derstandin	g coexistence	at variou	s levels		

Explore Values : Health and Regulation , Goal of Life	2
Practical Tip 2 -Time Management: The clock and the compass, Time Management Matrix, spiritual intelligence, L.I.F.E, Four Human Needs, Return of investment of life, Various Time Management Techniques, Identifying the big rocks, Triple "S" formula, Tips on time management.	2
Discover the Ultimate Genius , Discover Manual of Life	
 Implications of the Right Understanding The basis for Universal human values and Ethical human conduct Professional Ethics in the light of Right understanding Holistic Development towards Universal Human Order Vision for Holistic Technologies , Production System and Management Models Journey towards Universal Human Order - The Road Ahead 	2
Explore Values : Yoga for Modern age , As you sow so shall you reap	2
Practical Tip 3 - Self Empowerment through Self Management : Self Management , Importance of Self Management, Best solace for self management, Need of self management in modern scenario, Successful tool for Self management : working smarter not harder, Self control to achieve Will power , Stop worrying and start living peacefully (Peace formula) , What is spirituality and how to be spiritual? Is spirituality scientific and practical?,	2
Discover the Lasting Solutions / Discover sublime joy through Sound Vibrations	2
 4 UHV at a Glance : HUman Values pertaining to Self and Body Human Values pertaining to family Human Values pertaining to Society Human Values pertaining to Nature Human Values pertaining to Existence 	2
Practical Tip 4-Leadership Principles : Leadership - its need and foundation. Six qualities of a leader, Bad leadership and Good leadership , Five Factors that mould our personality, Power of Thoughts, Triple "A" formula, Types of people, Personality ethics, Character ethics, The SIX formidable enemies that BIND us, Be Bound or Be Free: Choice is yours, Invisible Influences, The Concept of Servant Leadership	2
Explore values : Overcome Bad Habits / Devotion and Satisfaction of Heart/ Competition , Character and Culture in Action	2
Discover the Happy Planet , Discover Unity in Diversity	2
Practical Content	
Drama, Visit, Literary, meeting personalities of special field and other orientation activities based on abo	oove
concepts	
Text Books	
1 Essence of Bhagavad Gita Series : Positive Thinking by Badheshvam Das, M Tech - IIT (With workhow	nok)
2 Value Education for Young Leaders by Prof(Dr.) P. Harikrishna, NIT -Warangal	
Reference Books	
1 Bhagavad Gita As IT Is by ACBVS Prabhupad	
2 Voice your Choice by Govidn Das	

3	Leadersh	ip Lesson	s from th	ne Bhaga	wad Gita	by Ace V	V . Simps	son , Bru	nel Univ	ersity , L	ondon		
ICT/M	OOCs Refe	erence											
1													
Cours	e Outcom	es:											
COs	At the end of the course Students will be able to :												
CO1													
	Highlight	the adva	ntages o	of having	underst	tanding c	of a life i	n terms o	of ethica	l human	conduct	leading	to
	a mutua l	ly fulfilli	ng huma	in behav	vior with	n Self,Fa	amily , S	ociety	and Nat	ure.			
CO2													
	To facilita values ar	ate the dend the dend the dende	evelopmonent towa	ent of a ards valu	Holisti le based	ic Persp living in	ective a natura	which fo	orms the	e basis c	of univers	sal hum	an
CO3													
	Saving te	eenagers	from sel	f destruc	tive hab	its.							
CO4													
	Creating	a class c	of people	of high	charact	ter throu	gh spirit	uality an	d of hig	h compe	tence th	rough s	elf
	excellenc	e skills w	ith basic	and hig	her prin	ciples of	Conscio	usness S	Science				
CO5													
	Creating	a class o	of people	e who re	espect,	trust and	d love e	ach othe	er , living	g as ve h	icles of	practio	cal
	wisdom.												
					Марріі	ng of CO	and PO:	:					
COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO1	
												2	
CO1	3	2	2	1	1	3	3	3	2	1	0	3	
CO2	3	3	3	0	0	3	2	3	2	1	1	3	
CO3	2	2	2	1	1	2	2	3	2	1	1	3	
CO4	2	1	1	0	0	3	3	3	3	2	0	3	
CO 5	2	2	2	2	3	1	3	3	3	3	3	3	

						GANP	AT UNIVE	RSIT	Y		
			FA	CUI	TY O	F ENGI	NEERING	i & TE	CHNOLOGY		
Program	ne	1	Bachelo	or of ⁻	Fechno	logy	Branch/Spe c.	All Bra	anches of Enginee	ring	
Semester							Version	1.0.0.	0		
Effective	from A	cader	mic Yea	ır	20	20-21	Effective fo	r the ba	tch Admitted in	Nov 2020	
Subject co	ode			DYS	Su	bject	Discover Y	ourself	through Bhagavad Gi	ita DYS-BG 1	
Teaching	scheme	e	601		INd	me	Examinatio	n schen	ne (Marks)		
(Per week) Lecture(DT Practical(Total CE SEE (Open Total) Lab.) Lab.) CLosed Book Assmt) Assmt)											
		L	TU	Р	ΤW						
Credit	2	2	0	0	0	2	Theory	100	0	100	
Hours	2	2	0	0	0	2	Practical	0	0	0	
Pre-requi	sites: Ir	ntere	st in se	elf de	velopm	ent along	with welfare	e of oth	ers		
 To facilitate the development of a holistic perspective which forms the basis of universal human v and movement towards value based living in a natural way . Creating a class of people of high character through spirituality and of high competence throug excellence skills. Saving teenagers from self destructive habits. Highlight the advantages of having understanding of a life in terms of ethical human conduct leadi a mutually fulfilling human behaviour. Creating a class of people who respect , trust and love each other , living as vehicles of wisdom. 									ian values rough self leading to 1.		
Unit	liabus						Content				Hrs
1	Unit Content 1 Introduction to Value education : a. Introduction : Need , Guideline & Content ; Value of an entity b. Basic requirement for fulfillment of human aspiration:Development of Human Consciousness,Role of Education- Sanskar,The Sanskar to transform Consciousness from animal to humane c. Process of Value Education: Self Exploration d. Exploring the meaning of happiness and prosperity :Realizing Existence as Coexistence at All Levels										2
	Exploi	re va	ilues :	Art 0	T CONC	entration	і, кеspect f	or all re	eligions and Non	violence	2
-	Benefi reversi	it of ing .	p 1 -Int Value n Challe	Educa	tion to	Student:	s and to pro	fession	al institutes. DEFA	ation, Major AULTER & its	2
	Case st	tudy	: Disrol	oing t	he Kau	ravas.					

2	Harmony in Human Being:	2
	1. Understanding the human being as a coexistence of Self and body	
	2. Understanding harmony in the Self : Self as a Consciousness entity and body as the	
	material entity	
	3. Gross Misunderstanding : Assuming Human being to be only the Body	
	4. Understanding Harmony in human being	
	5. Understanding the Harmony of the Self with the Body	
	Explore Values : Self Control, Our Blissful Identity	2
	Practical Tip 2 - Dealing with Habits : Types of Habits - Good Habits and Bad Habits, Additions - Causes, Right perception , Power of Good habits.	2
3	Harmony in the Family : Intention and Competence : Journey From Trust to Love	2
	1 Understanding the Relationship	
	 Onderstanding the relationship Trust - The foundation value in Relationship 	
	3 Respect - As the Right Evaluation	
	4. Other naturally acceptable feelings in Relationship	
	5. Justice in the Relationship	
	Practical Tip 3 - Lightening up Values: Value Based Life, Present day materialistic approach	2
	, Balance Life wheel, Wisdom Tree, Good foundation to excel in life, Compassion, Love	
	gives but greed takes , Perfect Charity , Contentment , Humility , Love means to give and	
	by giving we receive, Attitude, Failures are the stepping stones for the success, Self	
	Confidence,	2
	explore values : Cleaniness /	Z
4	Harmony in Society :	2
	1. Understanding Human Goal	
	2. Dimension (Systems) of Human Order	
	3. Universal Human Order - Harmony from Family order to world family Order	
	4. Process of Development of a Child in an environment of Relationship	
	Five Dimensions of Human Order Tandansy to Control and Pule (Domination Vs	
	Developing and valuing Inter Relationships	
	Practical Tip 4 -Professional Ethics · What is Ethics Need of Ethics Educational Ethics	2
	Missing thing in modern education. Healing the wounded modern world. Values are real	-
	valuables. Values for the modern generation. Integrating spirituality with education .	
	Positive and negative attitudes of professionals, Ideal Attitude at work, Step to make your	
	work as worship , Case study : Kansaness and Krishnaness .	
	Explore Values : Tolerance and Forgiveness , Secret of Smart work	2
5	Harmony in Nature and Existence :	2
	1. Understanding Harmony in Nature	
	2. Realising Existence as Coexistence at all levels	
	3. The Holistic perception of Harmony in Existence	
	4. Program of Individual Action : Self Exploration , self Awareness and Self	
	Evaluation	
	Practical Tip 5 - True Friendship and Love : Who is a friend , Qualities of good friend , Real	2
	Friend, Examples of True Friendship, What is Love, True Love means to give, Smiley faces	
	but crying & empty hearts , Love and Lust , Message of Love	
	Explore Values :Big brain behind the Universe , Divine Knowledge	2

Practical Content

Drama , Visit, Literary , meeting personalities of special field and other orientation activities based on above concepts

Text Bo	oks											
1	Value Ed	lucation	for Youn	g Leade	rs by Pro	of(Dr.) P	. Harikri	shna ,NI٦	-Warar	ngal		
2	Discover	Yoursel	f by Radl	heshyam	n Das , N	1.Tech , II	T - Mun	ıbai		0		
Work B	Book :Valu	e Educa	tion by C	enter fo	r Value I	Educatio	n (CVE)) - Pune				
Referen	ice Books											
1	Bhagava	d Gita A	s IT Is by	ACBVS I	Prabhup	ad						
2	Voice yo	ur Choic	ce by Gov	/idn Das								
3	Leaders	nip Lesso	ons from	the Bha	gavad G	ita by Ac	e V . Sin	npson , B	runel Ur	niversity	, Londor	ı
ІСТ/МО	OCs Refe	rence										
1												
Course	Outcome	s:										
COs	At the e	nd of the	e course	Student	s will be	able to :						
CO1	Lliabliab	t the ed	vantagaa	ofbovi		rotonding	n of o life	, in torma	ofothic		n oondu	ot
	leading f	t the au	ually ful	filling h	uman b	ehavior	with Se	elf,Famil	y , Soci	ety and	Nature.	
CO2												
	To facilit	ate the alues a	developn nd mover	nent of a ment tov	a Holis vards va	tic Pers lue base	pective d livina	which fo in a natu	orms the	basis of	funivers	al
CO3							<u>.</u>					
	Saving	teenage	rs from s	elf destr	uctive ha	abits.						
CO4												
	Creating through	a class	s of peop ellence s	ole of h i kills with	i gh cha basic a	racter th and highe	rough s er princij	spirituality ples of Co	and of	ⁱ high co sness Sc	mpetenc cience	e
CO5						-						
	Creating practica	a class I l wisdo	s of peop m .	ole who	respect	, trust a	and love	each ot	her , livi	ng as ve	ehicles o	of
	_				Марр	oing of C	O and P	0:				
			ا دمع ا		DOE		DO7		DOO	PO10		PO12
		FUZ		F U4	FUJ		FU/		F 0 9	1 1010		
01	3	2	2	1	1	3	3	3	2	1	0	3
CO2	3	3	3	0	0	3	2	3	2	1	1	3
CO3	2	2	2	1	1	2	2	3	2	1	1	3
CO4	2	1	1	0	0	3	3	3	3	2	0	3
CO 5	2	2	2	2	3	1	3	3	3	3	3	3

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			FAC	CULT	YOF	ENGINE	ERING & 1	FECHN	OLOGY		
Progra	mme		Bachelo	or of Te	chnolog	ζγ.	Branch/Spec.	All Brar	ches of Engineering		
Semes	ter						Version	1.0.0.0			
Effectiv	ve from	Acad	emic Yea	r	2021	-22	Effective for	the batch	n Admitted in	Nov 2	2020
Subjec	t code		UHV4D	YSBG2	Subje	ect Name	Discover Yo Thinker) I	ourself th	rough Bhagavad Gita II	(Positiv	e
Teachi	ng sche	me					Examination	scheme	(Marks)		
(Per w	eek)	Lectu	ire(DT)	Pract	tical(La	Total		CE	SEE	Total	
				b.)							
Credit		<u> </u>		P	IW	2	Theory	100	0	100	
		2	0		0	2	Bractical	100	0		
Pre-rec	l nuisites	2 Inter	rest in se	lf dev	elonmei	1 2 nt along wit	th welfare of (thers		10	
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Obiect	ives of	the Co	ourse:								
1.	1100 01										
Theory	y Syllab	us									
Unit						Co	ontent				Hrs
1	Introd	luctior	n to Valu	e Educ	ation :						2
		Unc	derstandi	ing Val	ue Educ	cation					
	2.	Bac	Exploration	lion is Dasnir	the pro	d their fulf	ilment				
	4.	Unc	derstandi	ing Ha	ppiness	and Prospe	erity				
							·····,				
	Practi	cal Tip	os 1 : Ho	w to c	leal witl	h Stress : A	bout Stress, S	Stress in	young age , Importa	ance of	2
	Stress	, Cau	uses of S	tress	, Suicic	le - the pre	esent age stu	oid idea	Why only Human c	ommit	
	suicid	е, Но	ow to de	al wit	h crisis i	in our life , /	Art of Tolerand	ce , Practi	cal solution for yout	h , Life	
	Exploi	mana <u></u> re Vali	<u>, gement</u> Jes · Posi	tive T	to mana hinking	Friendline	ss and See goo	nd in othe	arc		2
			103 . 1 03			, menume					2
	Discov	ver the	e game o	, tite	Discove	er Inner Self	t				2
2	Under	rstand	ing the ⊦	larmo	ny at Va	rious levels					2
	5.	Unc	derstandi	ing the	e Humar	n beings as	coexistence of	Self and	Body		
	6.	Har	mony in	Self ar	nd unde	rstanding N	Ayself		. 1.		
	/.	Har	mony of	the se	elf with t	ndorstandir	Self -Regulatio	n & Heali	th Iman rolationship		
	0. 9	наг Наг	mony in	Societ	nniy - O v - Linde	erstanding	universal hum	an order			
	10	D. Har	mony in	Natu	re - Ur	nderstandin	ig the interco	nnectedr	ness, Self Regulation	on and	
		Mu	, tual fulfil	lment			0				
	11	1. Har	mony in	Existe	nce : Un	derstandin	g coexistence	at variou	s levels		
	Exploi	re Valu	ues : Hea	lth an	d Regula	ation , Goal	of Life				2
	Practi	cal Ti	p 2 -Tim	e Ma	nageme	nt: The clo	ck and the co	mpass, T	Time Management I	Matrix,	2
	spiritu	ual int	elligence	e, L.I.F	.E, Four	Human N	eeds, Return	of invest	ment of life, Variou	s Time	
	Mana	gemei	nt Techi	niques	, Ident	ifying the	big rocks, 1	Friple "S	" formula, Tips or	ı time	
	mana	gemer	nt.								

	Discover the Ultimate Genius, Discover Manual of Life	
	Implications of the Dight Understanding	2
5.	12 The basis for Universal human values and Ethical human conduct	2
	13. Professional Ethics in the light of Right understanding	
	14. Holistic Development towards Universal Human Order	
	15. Vision for Holistic Technologies. Production System and Management Models	
	16. Journey towards Universal Human Order - The Road Ahead	
	Explore Values : Yoga for Modern age. As you sow so shall you reap	2
	Explore values . Toga for Modern age , As you sow so shall you reap	2
	Practical Tip 3 - Self Empowerment through Self Management : Self Management , Importance of Self Management, Best solace for self management, Need of self management in modern scenario, Successful tool for Self management : working smarter not harder, Self control to achieve Will power , Stop worrying and start living peacefully (Peace formula) , What is spirituality and how to be spiritual ? Is spirituality scientific and practical ? ,	2
	Discover the Lasting Solutions / Discover sublime joy through Sound Vibrations	2
4	UHV at a Glance :	2
·	1. HUman Values pertaining to Self and Body	-
	2. Human Values pertaining to family	
	3. Human Values pertaining to Society	
	4. Human Values pertaining to Nature	
	5. Human Values pertaining to Existence	
	Various Appendices	
	Practical Tip 4-Leadership Principles : Leadership - its need and foundation. Six qualities of a leader, Bad leadership and Good leadership , Five Factors that mould our personality, Power of Thoughts, Triple "A" formula, Types of people, Personality ethics, Character ethics, The SIX formidable enemies that BIND us, Be Bound or Be Free: Choice is yours, Invisible Influences, The Concept of Servant Leadership	2
	Explore values : Overcome Bad Habits / Devotion and Satisfaction of Heart/ Competition , Character and Culture in Action	2
	Discover the Happy Planet , Discover Unity in Diversity	2
Practio	cal Content	
Drama	a, Visit, Literary, meeting personalities of special field and other orientation activities based on	above
conce	pts	
Work	book : Value Education by Center for Value Education (CVE) - Pune	
Text B	ooks	
1	Essence of Bhagavad Gita Series : Positive Thinking by Radheshyam Das, M.Tech - IIT (With work	book)
2	Value Education for Young Leaders by Prof(Dr.) P . Harikrishna ,NIT -Warangal	
Refere	ence Books	
1	Bhagavad Gita As IT Is by ACBVS Prabhupad	
2	Voice your Choice by Govidn Das	
3	Leadership Lessons from the Bhagavad Gita by Ace V . Simpson . Brunel University . London	
ICT/M	OOCs Reference	
1		

Cours	e Outcom	es:											
COs	At the en	At the end of the course Students will be able to :											
CO1													
	Highlight	the adva	ntages c	of having	underst	anding c	of a life ir	n terms o	of ethical	human	conduct	leading	to
	a mutua l	ly fulfilli	ng huma	ın behav	ior with	Self,Fa	amily , S	ociety a	and Nat	ure.			
CO2													
	To facilita	ate the de	evelopme	ent of a	Holisti	c Persp	ective	which fo	orms the	basis o	f univers	al hum	an
	values ar	id moven	nent towa	ards valu	e based	living in	a natura	l way .					
CO3													
	Saving te	enagers	from sel	f destruc	tive hab	its.							
CO4			_										
	Creating	a class c	of people	of high	charact	ter throu	gh spirit	uality an	d of hig	n compe	tence th	rough s	elf
	excellenc	e skills w	rith basic	and hig	ner princ	ciples of	Conscio	usness s	Science				
CO5	o "												.
	Creating	a class (of people	e who re	espect,	trust and	d love ea	ach othe	er , living	g as ven	icles of	practic	al
	wisuom.												
_					Mappir	ng of CO	and PO:						
COs	s PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO1	
												2	
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CO2	² 3	3	3	0	0	3	2	3	2	1	1	3	
COS	³ 2	2	2	1	1	2	2	3	2	1	1	3	
CO4	¹ 2	1	1	0	0	3	3	3	3	2	0	3	
CO 5	2	2	2	2	3	1	3	3	3	3	3	3	

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Student Notice

It is hereby informed you that Registration for Value added courses offered by the institute for the academic year 2021-22 is initiated.

Applications are invited for the below-mentioned value-added course offered by VMPIM as given below:

Course	Duration	Fees	
Discover Yourself through Bhagavad Gita	30 hours	Nil	

The students of MBA Sem-III can register for the course and they are required to report the coordinator (Dr. Dipesh Dasani) of Value-added course up to 14.09.2021.

I/C. Head V.M.Patel Institute of Management Ganpat University,Kherva-384012 Dist.Mehsana (North Gujarat)

Programme		Master Admin	of Bu istrati	isiness on		Branch/Sp ec.	Mark Mana Entre	eting/Finance/Huma gement/Internationa preneurship/Supply	an Resource: al Business/ Chain
							Mana	gement	Chan
Semester						Version	1.0.0.	0	
Effective fro	m Ac	ademic	Year	2020	0-21	Effective fo	or the ba	tch Admitted in	2020
Subject code	;	UHV3 BG1	DYS	Subj	iect Name	Discover ' BG 1	Yourse	lf through Bhagavad	Gita DYS
Teaching sch	heme					Examinatio	n schen	ne (Marks)	
(Per week)	Lect (DT	ure)	Prac Lab	ctical(.)	Total		CE	SEE (Open Book Assmt & CLosed Book Assmt)	Total
	L	TU	Р	TW					
Credit	2	0	0	0	2	Theory	100	0	100
Hours	2	0	0	0	2	Practical	0	0	0

1. To facilitate the development of a holistic perspective which forms the basis of universal human values and movement towards value-based living in a natural way.

- 2. Creating a class of people of high character through spirituality and of high competence through self-excellence skills.
- 3. Saving teenagers from self-destructive habits.
- 4. Highlight the advantages of having understanding of a life in terms of ethical human conduct leading to a mutually fulfilling human behaviour. Creating a class of people who respect, trust and love each other, living as vehicles of wisdom.

Course Outcome



Cos: At the end of the course Students will be able to :

CO1: Understand the essential complementary relation between values and skill for ensuring sustained happiness and prosperity

CO2: Visualise a holistic perspective towards life and profession based on correct understanding of human reality by discovering themselves as a potential spirit part and parcel belonging to a divine entity

CO3: Develop taste in theistic science which promotes sustainable development, mutual love and mutually enriching interaction with nature and thus visualizing life as an eternal journey of joy

CO4: Appreciate the importance of the practice of following as an integral part of universal citizen's duties: (a) respectful etiquettes and service behaviour towards parents-teachers and elderly people. (b) prayers and services to God (c) mutually respectful inter-religious brotherhood. Apply the concepts of Time Management and Self-Management to develop true leadership qualities for fulfilling their mission of life.

Unit	Content	Hrs
1	Introduction: Introduction to the program - its need, its broader view, its scope, Education and Value Education, Necessity of Value Education ,Major benefits of Value education in professional institutes. Case study: Disrobing the Kauravas.	6
	Lightening up Values : Value Based Life, Present day materialistic approach, Balance Life wheel, Wisdom Tree, Good foundation to excel in life, Compassion, Love gives but greed takes, Perfect Charity, Contentment, Humility, Love means to give and by giving we receive, Attitude, Failures are the stepping stones for the success, Self Confidence, Case study : Wrong but Right . Killing of Abhimanyu	
	Professional Ethics : What is Ethics, Need of Ethics, Educational Ethics, Missing thing in modern education, Healing the wounded modern world, Values are real valuables, Values for the modern generation. Integrating spirituality with education, Positive and negative attitudes of professionals, Ideal Attitude at work, Step to make your work as worship, Case study: Kansaness and Krishnaness.	
2	Can A Scientist Believe In GOD?	8
	The Story of Isaac Newton, Onder and design, Tremendous Energy, Organization and Craftsmanship, A Giant in a Tiny Package, Laus of Nature, Did everything start from a "Big bang' or a "Big brain", A Charge against Chance, Do you know a machine which has no maker and with no purpose, The Unseen Is Proven by the Seen, The Spiritual Scientist	
	Getting The Eyes to See GOD: Blind Men and the Elephant, Pratyaksha Praman, Anumana Praman, Shabda Praman, See Through the Eyes of Scriptures.	
	Vedic Wisdom: The Privilege of Humanity:	
	Human Life vs. Animal Life, The Special Prerogative of the Human Body, the actual Destination of Life, Cause of Suffering, Shun the Sinful tendency and Surpase Suffering. What is the purpose of Vedic Literature, Is Accepting the Vedas not Blind Fatter.	
	Ganpat Vidyanagar Kherva-382711	

	Vedas Considered the Word of God, Two Systems of Knowledge, The Vedic Process of Learning?	
3	Science of the soul:	8
	The ABC of Bhagavad-gita, Scientific Proof of the Soul's Existence, Practical Benefits of the knowledge about the soul, A Clear Understanding of Life and Death, The Nature of the Soul, Are we Gods or God's?	
	Substance And Shadow:	
	Where Does the Soul Come from? Spiritual World vs. Material World, The story of Liquid Beauty, All that glitters is not gold, The Goal of Life: Purification of Heart and Glorification of Lord, Mantra Meditation Technique	
	If God is one, then why so many religions?	
	Dharma - our eternal occupation, Selfless Love vs Self-centeredness, GOD: One Person called by Different Names, Who Is God? Is God Personal or Impersonal?, What is 90 special about Krishna that makes Him God?, When will my Love and Service satisfy my heart fully?, Ascending from Fear to Love, Serving simply out of love, with no motivation, Religions presented according to the ability of audience the to digest the Truth, Paro Dharma, Different Religions Same Message, Sanatan Dharma - The Supermarket of Religions, Worship according to Propensities, The ABCD formula for a happy life	
4	True Friendship and Love : Who is a Friend? important qualities of a friend, Real Friend, Examples of True Friendship, What is Love ?, Smiling face but crying empty hearts, Love and Lust : what is the difference ?, Message of Love	8
	Power Of habits: Statistics, Cycle of habit formation, Types of Habits, Effects of habits, Causes of bad habits, addiction, Why do people want to change, Where do we get our scripts from, How some habits are bad though they look good, How to say "NO" to bad habits, How to say "YES" to good habits	
Pract	ical Content	
Text	Books	
1	Value Education for Young Leaders by Prof (Dr.) P . Harikrishna, NIT - Warangal	
2	Discover Yourself by Radheshyam Das , M.Tech , IIT - Mumbai	
Refe	ence Books	
1	Bhagavad Gita as IT Is by ACBVS Prabhupad	
2	Voice your Choice by Govind Das	
3	Leadership Lessons from the Bhagavad Gita by Ace V. Simpson, Brunel University, Londo	n



GANPAT UNIVERSITY- FACULTY OF MANAGEMENT STUDIES V.M. PATEL INSTITUTE OF MANAGEMENT

Date	Time	Subject
4 th September 2021	2.00 pm to 4.00 pm	Discovering yourself through Bhagvad Geeta
11th September 2021	2.00 pm to 4.00 pm	Discovering yourself through Bhagvad Geeta
18 th September 2021	2.00 pm to 4.00 pm	Discovering yourself through Bhagvad Geeta
25 th September 2021	2.00 pm to 4.00 pm	Discovering yourself through Bhagvad Geeta
2 nd October 2021	2.00 pm to 4.00 pm	Discovering yourself through Bhagvad Geeta
9 th October 2021	2.00 pm to 4.00 pm	Discovering yourself through Bhagvad Geeta
16 th October 2021	2.00 pm to 4.00 pm	Discovering yourself through Bhagvad Geeta
23 rd October 2021	2.00 pm to 4.00 pm	Discovering yourself through Bhagvad Geeta
20th November 2021	2.00 pm to 4.00 pm	Discovering yourself through Bhagvad Geeta
13 th December 2021	2.00 pm to 4.00 pm	Discovering yourself through Bhagvad Geeta
22 nd January 2022	2.00 pm to 4.00 pm	Discovering yourself through Bhagvad Geeta
30th January 2022	2.00 pm to 4.00 pm	Discovering yourself through Bhagvad Geeta
5th February 2022	2.00 pm to 4.00 pm	Discovering yourself through Bhagvad Geeta
12th February 2022	2.00 pm to 4.00 pm	Discovering yourself through Bhagvad Geeta
19th February 2022	2.00 pm to 4.00 pm	Discovering yourself through Bhagvad Geeta

Time- Table



GANPAT UNIVERSITY- FACULTY OF MANAGEMENT STUDIES

V.M. PATEL INSTITUTE OF MANAGEMENT

Value- added course summary report

Faculty of Management Studies has organized value added course on "Discovering yourself through Bhagvad Geeta" for the students of V.M. Patel Institute of Management, FMS, Ganpat University during the year 2021-22.

The details about the number of students who have attended and completed successfully are as follows:

Year	Semester	Value-added Course	No of students participated
2021-22	Sem-III	Discovering yourself through Bhagvad Geeta	18

The value-added course was very informative, knowledgeable and related to the values and management function. Overall, the value-added course was highly appreciated by the students.



(Dr. Hiren, J, Patel)

I/C. Head V.M.Patel Institute of Management Ganpat University,Kherva-384012 Dist.Mehsane (Noith Gujarat)

S. No	Student Name	Enrolment Number
1	Patel Arju Jayeshbhai	20044311048
2	Vinod Amirbhai vasava	20044311106
3	Naiya Gupta	20044311020
4	Meesa Ketankumar Patel	20044311057
5	Anjali vasava	20044311105
6	Bhavesh Harjibhai Parmar	20044311040
7	Shivam Bakuleshbhai Shah	20044311090
8	Binkal chunilal vadaliya	20044311101
9	Neha girishbhai Ghodasara	20044311017
10	Dhavalbhai Rameshbhai Chauhan	20044311011
11	Patel Poojan Mayankkumar	20044311061
12	Deep Jitendrakumar Raval	20044311078
13	Gunjan Gupta	20044311019
14	Milan Makvana	20044311030
15	Ruthvi Dodiya	20044311016
16	Anushka shah	20044311086
17	Ritika Saxena	20044311084
18	Ishita Patel	20044311021



Student Notice

It is hereby informed you that Registration for Value added courses offered by the institute for the academic year 2020-21 is initiated.

Applications are invited for the below-mentioned value-added course offered by VMPIM as given below:

Course	Duration	fees
Retail Customer Interaction	32 hours	Nil

The students of MBA Sem-III can register for the course and they are required to report the coordinator (Dr. Dipesh Dasani) of Value-added course up to 21st July 2020.

I/C. Head M.Patel Institute of Management Ganpat University,Kherva-384012 Dist.Mehsana (North Gujarat)

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Subject	t code		10510	5 ·	Subject	Name	Petail Custo	mor Intora	Admitted in		
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(Per we	eek)	Lect	ure(DT)	Pract	tical(Lab.)	Total	Liamination	CE	SEE	Total	
		L	TU	Р	TW				JEL	TOtal	
Credit							Theory				
Hours							Practical	-	-		-
Pre-req	uisite	s:								1	
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• S c	tude	nts w ners	ould be	able t	to underst	and ho	w to commu	nicate clea	arly and resp	ectfully w	ith
Theory s	syllabi	us				6					
Unit						С	onte				Hrs
		-					nt				
A an 1 U	About Retail Industry: Understanding retailing, retail Industry, retail career. and jobs, Differentiate between retail and quick service restaurants, Understand and define retail verticals, Understand, and define retail formats.							, 16			
S	ales I	ntera	ction: U	Under	standing th	he custo	mers, Greet	ing custom	ners &		
2 ur ad	iderst vanta	and. (ages, l	Custome benefits	er requ of pro	uirements oducts (FA	by "pro (Bing), ng	bing", Expla Ability to "c	ain feature close" sale	s, s, Differentia	ate.	16



GANPAT UNIVERSITY- FACULTY OF MANAGEMENT STUDIES V. M. PATEL INSTITUTE OF MANAGEMENT

Time- Table

Date	Time	Subject
23-07-2020	4.00 pm to 6.00 pm	Retail Customer Interaction
25-07-2020	4.00 pm to 6.00 pm	Retail Customer Interaction
28-07-2020	4.00 pm to 6.00 pm	Retail Customer Interaction
30-07-2020	4.00 pm to 6.00 pm	Retail Customer Interaction
04-08-2020	4.00 pm to 6.00 pm	Retail Customer Interaction
06-08-2020	4.00 pm to 6.00 pm	Retail Customer Interaction
07-08-2020	4.00 pm to 6.00 pm	Retail Customer Interaction
10-08-2020	4.00 pm to 6.00 pm	Retail Customer Interaction
13-08-2020	4.00 pm to 6.00 pm	Retail Customer Interaction
17-08-2020	4.00 pm to 6.00 pm	Retail Customer Interaction
19-08-2020	4.00 pm to 6.00 pm	Retail Customer Interaction
21-08-2020	4.00 pm to 6.00 pm	Retail Customer Interaction
24-08-2020	4.00 pm to 6.00 pm	Retail Customer Interaction
25-08-2020	4.00 pm to 6.00 pm	Retail Customer Interaction
27-08-2020	4.00 pm to 6.00 pm	Retail Customer Interaction
29-08-2020	4.00 pm to 6.00 pm	Retail Customer Interaction



GANPAT UNIVERSITY- FACULTY OF MANAGEMENT STUDIES

V. M. PATEL INSTITUTE OF MANAGEMENT

Value added course summary report

Faculty of Management Studies has organized value added course on "Retail Customer Interaction" for the students of V.M. Patel Institute of Management, FMS, Ganpat University during the academic year 2020-21

The details about the number of students who have attended enrolled and completed successfully are as follows:

Year	Semester	Value-added course	No of students participates
2020-21	Sem-III	Retail Customer Interaction	42

The Value-added course was very knowledgeable, informative and related to the managerial function. Overall, the value-added course was highly appreciated by the students

Seal of the Institute



(Dr. Hiren J Patel) IC. Heed V.M.Patel Institute of Management Canpat University,Kherva-384012 Dist.Mehsana (North Gujarat)

Value Added course offered to MRA Sem-III students during 2020 21									
S. No	Student Name	A Sem-III stu	idents during 2020-21						
1.	AMRITIVA PALICNECHICIDAE	Enroll No	Course offered						
2	ANSHU DUELADIVA	19044311002	2 Retail Customer Interaction						
2	ANSHU DHELARIYA	19044311003	Retail Customer Interaction						
3	BHURANI DIVYA PRAMOD	19044311006	Retail Customer Interaction						
	BRAHMBHATT PRUTHVI	19044311007	,						
4	NIRMALKUMAR	17011511007	Retail Customer Interaction						
5	CHAUDHARY SHIVANI LALJIBHAI	19044311008	Retail Customer Interaction						
6	CHAVDA JYOTIBEN LALJIBHAI	19044311010	Retail Customer Interaction						
7	CHUDASMA RAHULKUMAR	19044311013	Retail Customer Interaction						
8	EKTA ROSHANLAL GUPTA	19044311015	Retail Customer Interaction						
9	GOSWAMI ADITYA PRAKASHGIRI	19044311018	Retail Customer Interaction						
10	JOSHI AKASH ROHITKUMAR	19044311019	Retail Customer Interaction						
11	KALARIYA DHARA PRAFULBHAI	19044311020	Retail Customer Interaction						
12	MEHTA AESHA BIPINKUMAR	19044311032	Retail Customer Interaction						
13	MODI DARSHAN ARVINDKUMAR	19044311036	Retail Customer Interaction						
13	MODI RANCHHOD PRAMODBHAI	19044311037	Retail Customer Interaction						
14	MODI RUSHABH SANJAYKUMAR	19044311038	Retail Customer Interaction						
15	NAYAK PRITIBAHEN	10044311041							
16	RAJENDRAKUMAR	19044311041	Retail Customer Interaction						
	PANCHAL PARTHKUMAR	19044311043	Retail Customer Interaction						
17	SHASHIKANT		Retail Customer interaction						
	PANCHAL POOJABEN	19044311044	Retail Customer Interaction						
18	MUKESHBHAI	19044311049	Retail Customer Interaction						
19	PARMAR NISHIDEN HARLSHDHM	1701101100							
20	VAMI FSHKUMAR	19044311050	Retail Customer Interaction						
20	GALIRAV PARWAL	19044311051	Retail Customer Interaction						
21	PATEL AKSHAY JAGDISHBHAI	19044311052	Retail Customer Interaction						
	PATEL ARCHITKUMAR	10044311053							
23	MAHESHBHAI	19044511055	Retail Customer Interaction						
24	PATEL KANAN PRAKASHBHAI	19044311057	Retail Customer Interaction						
25	PATEL PURTIBEN BHARATBHAI	19044311061	Retail Customer Interaction						
26	PATEL RAHUL PRADEEPBHAI	19044311062	Retail Customer Interaction						
27	PATEL RIYA PRAKASHBHAI	19044311064	Retail Customer Interaction						
28	PATEL VIBHUTIBEN VIKESHBHAI	19044311069	Retail Customer Interaction						
	PUJARA RADHIKA	19044311075							
29	RAJENDRAKUMAR		Retail Customer Interaction						
	RAJPURA NAIMISHA	19044311077	Patail Customer Interaction						
30	NILESHKUMAR	10044211091	Retail Customer Interaction						
31	RAVAL MANALI GOVINDBHAI	19044311081	Retail Customer Interaction						
32	SHAH HETVEE DILIPKUMAR	19044311082	Retail Customer Interaction						
33	SHAH JAINAM HARESHKUMAR	19044311083	Retail Customer Interaction						
34	SHAH KRIPA KALPESH	19044311085	Retail Customer Interaction						

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SHARMA HITENDRAKUMAR	10044211096	
RAJENDRABHAI	19044311086	Retail Customer Interaction
SHETH AKASH	10044011005	
DHARMENDRAKUMAR	19044311087	Retail Customer Interaction
SIKH ADITYA SINGH SATNAM	10044211000	
SINGH	19044311088	Retail Customer Interaction
SOLANKI ARTIBEN NITINSINH	19044311089	Retail Customer Interaction
THAKKAR NIRANT	10044211004	
JAGDISHKUMAR	19044311094	Retail Customer Interaction
THAKKAR YATRIBEN	10044211005	
GIRISHKUMAR	19044511095	Retail Customer Interaction
PRACHI MUKESHBHAI THAKKER	19044311096	Retail Customer Interaction
KAILASH VAGHELA	19044311098	Retail Customer Interaction
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Head

I/C. Head V.M.Patel Institute of Management Ganpat University,Kherva-384012 Dist.Mehsana (North Gojaret)

Student Notice

It is hereby informed you that Registration for Value added courses offered by the institute for the academic year 2020-21 is initiated.

Applications are invited for the below-mentioned value-added course offered by VMPIM as given below:

Course	Duration	Fees
Google Applications	30 hours	Nil

The students of MBA Sem-I can register for the course and they are required to report the coordinator (Dr. Dipesh Dasani) of Value-added course up to 11.11.2020.

I/C. Head DV.M.Patel Institute of Management Ganpat University, Kherva-384012 Dist.Mehsana (North Gujarat)

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3	Google Calendar interface introduction: Adding Appointment and events, Sharing and viewing calendar, Creation of private calendar								4		
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5	Google Classroom: Introduction of Google Classroom, Theme, Assignment, Discussion, Settings and Email notifications	4
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7	Google Drive, Uploading and downloading files, Converting files, Sharing files with	4
	Others, Replacing Word, Excel, and PowerPoint with Google apps	
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8	history, current trends, concepts, terminology, metrics and benchmarks	4
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1	Conner, N. (2008). Google Apps: The Missing Manual: The Missing Manual. " O'Reilly Media, Inc."	



GANPAT UNIVERSITY- FACULTY OF MANAGEMENT STUDIES

V. M. PATEL INSTITUTE OF MANAGEMENT

Time- Table

Date	Time	Subject
17/11/2020	3.00 pm to 4.00 pm	Google Applications
20/11/2020	3.00 pm to 4.00 pm	Google Applications
21/11/2020	3.00 pm to 4.00 pm	Google Applications
26/11/2020	3.00 pm to 4.00 pm	Google Applications
27/11/2020	3.00 pm to 4.00 pm	Google Applications
03/12/2020	3.00 pm to 4.00 pm	Google Applications
04/12/2020	3.00 pm to 4.00 pm	Google Applications
10/12/2020	3.00 pm to 4.00 pm	Google Applications
11/12/2020	3.00 pm to 4.00 pm	Google Applications
17/12/2020	3.00 pm to 4.00 pm	Google Applications
18/12/2020	3.00 pm to 4.00 pm	Google Applications
24/12/2020	3.00 pm to 4.00 pm	Google Applications
31/12/2020	3.00 pm to 4.00 pm	Google Applications
01/01/2021	3.00 pm to 4.00 pm	Google Applications
07/01/2021	3.00 pm to 4.00 pm	Google Applications
08/01/2021	3.00 pm to 4.00 pm	Google Applications
21/01/2021	3.00 pm to 4.00 pm	Google Applications
22/01/2021	3.00 pm to 4.00 pm	Google Applications
28/01/2021	3.00 pm to 4.00 pm	Google Applications
29/01/2021	3.00 pm to 4.00 pm	Google Applications
19/02/2021	3.00 pm to 4.00 pm	Google Applications
20/02/2021	3.00 pm to 4.00 pm	Google Applications
25/02/2021	3.00 pm to 4.00 pm	Google Applications
26/02/2021	3.00 pm to 4.00 pm	Google Applications
27/02/2021	3.00 pm to 4.00 pm	Google Applications
02/03/2021	3.00 pm to 4.00 pm	Google Applications
03/03/2021	3.00 pm to 4.00 pm	Google Applications
04/03/2021	3.00 pm to 4.00 pm	Google Applications
05/03/2021	3.00 pm to 4.00 pm	Google Applications
06/03/2021	3.00 pm to 4.00 pm	Google Applications



GANPAT UNIVERSITY- FACULTY OF MANAGEMENT STUDIES

V. M. PATEL INSTITUTE OF MANAGEMENT

Value added course summary report

Faculty of Management Studies has organized value added course on "Google Applications" for the students of V.M. Patel Institute of Management, FMS, Ganpat University during the academic year 2020-21

The details about the number of students who have attended enrolled and completed successfully are as follows:

Year	Semester	Value-added course	No of students participates
2020-21	Sem-1	Google Applications	105

The Value-added course was very knowledgeable, informative and related to the managerial function. Overall, the value-added course was highly appreciated by the students

Seal of the Institute



(Dr. Hiren J Patel) I/C. Head V.M.Patel Institute of Management Canpat University,Kherva-384012 Dist.Mehsana (North Gujarat)
S. No Student Enrolment Number Course Opted 1 ALKA KUMARI 20044311001 Google Application 2 DAMOR 20044311002 Google Application 3 MAITKUMAR PRATAPBHAI 20044311003 Google Application 4 BAROT HEMANGIBEN 20044311004 Google Application 5 BHATT DHWANI BIPIN KASHMIRA 20044311005 Google Application 6 BHAVSAR HONEY AJAYKUMAR 20044311006 Google Application 7 BHUMIKA SHARMA 20044311008 Google Application 8 BIKASH KUMAR SINGH 20044311008 Google Application 9 PRAVINBHAI 20044311018 Google Application 9 PRAVINBHAI 20044311018 Google Application 10 CHAUHAN DHAVALBHAI 20044311013 Google Application 11 DUSHYANTKUMAR 20044311013 Google Application 12 DESAI NKITA JALUBHAI 20044311014 Google Application 13 DESAI PREYASKUMAR 20044311015 Google Application	Val	Value Added course offered to MBA Sem-I students during 2020-21						
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57	MAYANKKUMAR	20044311061	Google Application
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59	PATEL RAVIKUMAR HARESHBHAI	20044311063	Google Application
60	PATEL UJASH PRAVINBHAI	20044311064	Google Application
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T/C. Hoad M.Patol Institute of Nanagement Ganpat University,Kherva-384012 Dist.Mehsana (North Gujaret)



Student Notice

Date: 21/08/2019

It is hereby informed you that Registration for Value added courses offered by the institute for the academic year 2019-20 is initiated.

Applications are invited for the below-mentioned value-added course offered by VMPIM

Course	Duration	fees
Decision Support System for Managers (1OS104)	36 hours	Nil

The students of MBA, who is interested in the course are required to report the coordinator (Dr. Dipesh Dasani) of Value-added course up to 24th August 2019. The session would be taken by Expert Mr. Nilesh Mahato.



(Dr. Hiren J. Patel) I/C. Head

V.M.Patel Institute of Management Ganpat University,Kherva-384012 Dist.Mehsana (North Gujarat)

Decision Support system for Managers (10S104)

Course Plan

Course Introduction: This course is designed with the purpose of making the participant an effective user as well as a builder of Decision Support systems (DSS). The course is application oriented and particularly focused towards solving semi-structured decision problems faced by managers in manufacturing and service organizations.

S. No	Module Name
1	Introduction to Decision Support Systems (DSS) – Different types of Managerial Decision Problems and the Role of a DSS in solving them. Management Information System versus DSS, Range of Capabilities of a DSS, Components of a DSS, Examples of DSS, Basics of DSS Design Cycle.
2	Models in Decision Support Systems – What is a Model? Classification of Models, Purpose of Modeling in DSS, Solution Techniques: Optimization, Heuristics, and Simulation, Traditional approach to modeling and its weaknesses, Desirable features for Models in DSS, Models and Managers: The Concept of a Decision Calculus'.
3	Decision Support System for Evaluation of Investment Proposals
4	Decision Support System for Materials Managers
5	Decision Support System for Forecasting Demand for Independent Items – single and multi-period forecasting, forecasting for products with intermittent demand
6	Decision Support System for Determination of Product Mix – product choice and bundling decisions, product mix decisions
7	Decision Support System for Production Distribution Problem for a Multi- Product and a Multi-Unit Organization
8	Decision Support System for Vehicle Scheduling
9	Decision Support System for Customer Centric Value Driven Decisions – designing the service system
10	Decision Support System for Human Resources Function
11	Decision Support System for Distribution Network Design in a Supply Network
12	Decision Support System for Pricing Decisions

GANPAT UNIVERSITY- FACULTY OF MANAGEMENT STUDIES V. M. PATEL INSTITUTE OF MANAGEMENT

Time Table

Date	Time	Subject
31/08/19	10 am to 12.00 pm 1 pm to 4.00 pm	Decision Support System for Managers
14/09/19	10 am to 12.00 pm 1 pm to 4.00 pm	Decision Support System for Managers
28/09/19	10 am to 12.00 pm 1 pm to 4.00 pm	Decision Support System for Managers
23/11/19	10 am to 12.00 pm 1 pm to 4.00 pm	Decision Support System for Managers
30/11/19	10 am to 12.00 pm 1 pm to 4.00 pm	Decision Support System for Managers
14/12/19	10 am to 12.30 pm 1 pm to 4.00 pm	Decision Support System for Managers
28/12/19	10 am to 12.30 pm 1 pm to 4.00 pm	Decision Support System for Managers



GANPAT UNIVERSITY – FACULTY OF MANAGEMEN STUDIES

V. M PATEL INSTITUTE OF MANAGEMENT

Date: 02/01/2020

Value-added course Summary Report

Faculty of Management Studies has organized value added course on 'Decision Support System for Managers' for the students of V.M Patel Institute of Management, FMS, Ganpat University on during the academic year 2019-20.

The details about the number of students who have attended enrolled and completed successfully are as follows:

Year	Semester	Value-added Course	No of Students participated
2019-20	Ш	Decision Support System (10S104)	79

The Value-added course was very knowledgeable, informative, and related to the managerial function. Overall, the value-added course was highly appreciated by the students.



(Dr. Hiren J. Patel) I/C. Head V.M.Patel Institute of Management Ganpat University, Kherva-384012

Dist.Mehsana (North Gujarat)

	Value Added courses opted by MBA sem-III student during 2019-20							
Sr. No	Name of Student	Enrolment Name	Allocated Course					
1	ANKITA PANDEY	18044311001	Decision Support System for Manager					
2	BIHAREE FARAHADBIBI AJAMKHAN	18044311002	Decision Support System for Manager					
3	CHAUDHARY PARASBHAI HIRABHAI	18044311003	Decision Support System for Manager					
4	CHAUDHARY VINABEN ANADABHAI	18044311004	Decision Support System for Manager					
5	CHAUHAN PRUTHVIRAJ MULABHAI	18044311005	Decision Support System for Manager					
6	CHUNNU KUMAR	18044311006	Decision Support System for Manager					
7	DARJI DEEP BHADRESHKUMAR	18044311007	Decision Support System for Manager					
8	DAVE KAKSHA PRAKASHKUMAR	18044311008	Decision Support System for Manager					
9	DOBARIYA DEVANGIBEN HIMMATBHAI	18044311009	Decision Support System for Manager					
10	DODIYA SAKERAFATEMA KHADIMHUSEN	18044311010	Decision Support System for Manager					
11	DODIYAR KINJALBEN DINUBHAI	18044311011	Decision Support System for Manager					
12	GARVA JAYESHKUMAR HARILAL	18044311012	Decision Support System for Manager					
13	GOSWAMI CHIRAGKUMAR ANILVAN	18044311013	Decision Support System for Manager					
14	GOSWAMI MILANBHARATHI MANUBHARATHI	18044311014	Decision Support System for Manager					
15	JAVED AHAMAD	18044311015	Decision Support System for Manager					
16	JAY JANI	18044311016	Decision Support System for Manager					
17	JOSHI NIRALI MANOJKUMAR	18044311017	Decision Support System for Manager					
18	KHATWANI LAVESHKUMAR MULCHANDBHAI	18044311018	Decision Support System for Manager					
19	KOLI ARUXI DINESH	18044311020	Decision Support System for Manager					
20	MAKAWANA SANDIPKUMAR HARISHKUMAR	18044311021	Decision Support System for Manager					
21	MALEK RASULKHAN MURIDKHAN	18044311022	Decision Support System for Manager					
22	MANSURI MUSKANBEN MAHEBUBBHAI	18044311023	Decision Support System for Manager					
23	MIRZA FAEZA IMTYAZ	18044311024	Decision Support System for Manager					



24	MODH ROHAN SURESHKUMAR	18044311025	Decision Support System for Manager
25	NAYI SACHIN MADANLAL	18044311026	Decision Support System for Manager
26	NEHA PATEL	18044311027	Decision Support System for Manager
27	PAHELAJANI DISHA RUPESHKUMAR	18044311028	Decision Support System for Manager
28	PANCHAL HARDIK RAMANLAL	18044311029	Decision Support System for Manager
29	PANDAV KHUSHBOO PARSHOTAMBHAI	18044311030	Decision Support System for Manager
30	PANDYA JIGAR NARENDRAKUMAR	18044311031	Decision Support System for Manager
31	PARIKH PIYUSHKUMAR DHANJIBHAI	18044311032	Decision Support System for Manager
32	PARMAR DIPAKBHAI SHIVABHAI	18044311033	Decision Support System for Manager
33	PARMAR DIPTIBEN RAJESHKUMAR	18044311034	Decision Support System for Manager
34	PARMAR MIHIR VINODKUMAR	18044311035	Decision Support System for Manager
35	PARVANI NILESH BHARATKUMAR	18044311036	Decision Support System for Manager
36	PATEL ADITI VIJAYKUMAR	18044311037	Decision Support System for Manager
37	PATEL AMEE GOVINDBHAI	18044311038	Decision Support System for Manager
38	PATEL AXAYKUMAR BHARATBHAI	18044311039	Decision Support System for Manager
39	PATEL BHAVI BHARATBHAI	18044311040	Decision Support System for Manager
40	PATEL BRIJEN VINODBHAI	18044311042	Decision Support System for Manager
41	PATEL DHARA SANDEEPKUMAR	18044311043	Decision Support System for Manager
42	PATEL DHAVAL KIRITBHAI	18044311044	Decision Support System for Manager
43	PATEL DHRUVIBEN SUDHIRBHAI	18044311045	Decision Support System for Manager
44	PATEL DINALBEN SURESHKUMAR	18044311046	Decision Support System for Manager
45	PATEL KAMAXIBEN KANUBHAI	18044311047	Decision Support System for Manager
46	PATEL KRIMAL NARENDRAKUMAR	18044311048	Decision Support System for Manager
47	PATEL NIDHIBEN MADHAVLAL	18044311049	Decision Support System for Manager
48	PATEL NIL MUKESHKUMAR	18044311050	Decision Support System for Manager



			1
49	PATEL POOJABEN KIRANBHAI	18044311051	Decision Support System for Manager
50	PATEL RAVI PRAVINBHAI	18044311053	Decision Support System for Manager
51	PATEL RIDDHI MUKESHCHANDRA	18044311054	Decision Support System for Manager
52	PATEL VASANT KANUBHAI	18044311055	Decision Support System for Manager
53	PATEL YAMINIBEN MAHESHBHAI	18044311056	Decision Support System for Manager
54	PATEL YASHKUMAR ASHOKBHAI	18044311057	Decision Support System for Manager
55	PATHAN FARHIN MANJAMKHAN	18044311058	Decision Support System for Manager
56	PRAJAPATI APOORVA MANSUKHBHAI	18044311059	Decision Support System for Manager
57	PRAJAPATI KAJAL PRAVINBHAI	18044311060	Decision Support System for Manager
58	PRAJAPATI KAUSHALKUMAR PRAVINKUMAR	18044311061	Decision Support System for Manager
59	PRAJAPATI MOSAMBEN KANTIBHAI	18044311063	Decision Support System for Manager
60	PRAJAPATI PRIYANKABEN JITENDRAKUMAR	18044311064	Decision Support System for Manager
61	PRIMABEN PATEL	18044311065	Decision Support System for Manager
62	PUROHIT BHARATIBEN GANAPATLAL	18044311067	Decision Support System for Manager
63	RAJPUT PALAK BALDEVJI	18044311068	Decision Support System for Manager
64	RANA ANJALI MUKESHKUMAR	18044311069	Decision Support System for Manager
65	RANA ARPITABEN HETALBEN	18044311070	Decision Support System for Manager
66	RAVAL SIDDHIBEN YOGESHBHAI	18044311071	Decision Support System for Manager
67	SAIJA KARAN SHAILESH	18044311073	Decision Support System for Manager
68	SHAH RAVI VIKRAM	18044311074	Decision Support System for Manager
69	SHAH SWETABEN VINODBHAI	18044311075	Decision Support System for Manager
70	SHEKH MOHMADASHIF HANIFBHAI	18044311076	Decision Support System for Manager
71	SHEKHAWAT NIRALI HANUMANSINGH	18044311077	Decision Support System for Manager
72	SHRIMALI CHIRAG MAHESHBHAI	18044311078	Decision Support System for Manager
73	SOLANKI KARANKUMAR NATVARLAL	18044311080	Decision Support System for Manager



74	SOLANKI PARTHVI HASMUKHBHAI	18044311081	Decision Support System for Manager
75	SONIA B BISHNOI	18044311082	Decision Support System for Manager
76	SUKHADIYA DHRUVIBEN ALPESHKUMAR	18044311083	Decision Support System for Manager
77	SUNDESHA RAHULKUMAR BHARATBHAI	18044311084	Decision Support System for Manager
78	SUTHAR ATISHKUMAR MANUBHAI	18044311085	Decision Support System for Manager
79	TEKCHANDANI RICHA AJITBHAI	18044311086	Decision Support System for Manager



1. (Dr. Hiren J. Patel)

I/C. Head V.M.Patel Institute of Management Ganpat University,Kherva-384012 Dist.Mehsana (North Gujarat)



Certificate of Completion of Value Added Course 2019-20

This is to certify that

KARAN SOLANKI

the bonafide student of the Ganpat University- V. M. Patel Institute of Management has successfully completed the course on

Decision Support System for Managers

for the duration of 36 hours during his\her Semester III as a part of his/her MBA program.

DR. HIREN PATEL Head (I/C) V. M. Patel Institute of Management Ganpat University



Ganpat University, FACULTY OF MANAGEMENT STUDIES V. M. PATEL INSTITUTE OF MANAGEMENT

<u>Centre for Entrepreneurship and Incubation</u> <u>Centre in support with Student Start up and</u> <u>Innovation Policy</u>



To give a much needed impetus to budding Entrepreneurs, Ganpat University undertook important initiative for strengthening the student start up ecosystem by launching an Entrepreneurship 101 for students registered under SSIP. Entrepreneurship 101 was organized by Ganpat University in support with Student Start Up and Innovation Policy, in pursuance to facilitate Entrepreneurship spirit among our students and to enhance and elevate the entrepreneurial Ecosystem, Ganpat University Centre for Entrepreneurship and Incubation Centre conducted Accelerator training Program Entrepreneurship 101. The First Module (Phase I) was over spanning a period of 30 hours.

About The Programme: Entrepreneurship 101 is a comprehensive training program for entrepreneurs who have ambition to start and transform their small business into thriving enterprises. It enables to develop and deliver tailored business training to equip entrepreneurs with the tools they need to become successful business owners. More specifically this program enables participants to understand various facets of starting and managing their business, Provides participants business development support to enable them to pitch their business to investors and other stakeholders. This unique model delivers the training in a modular format with emphasis on Intensive business training covering inputs in various aspects of business management including marketing, market surveys,

digital marketing, finance planning, business communication, risk management, wealth management and fund pitching, taxation, Legal foundations and so on.

INAUGURAL CEREMONY OF ENTREPRENEURSHIP 101

Prof. Saurabh Dave, Dean of Incubation Centre and Student Startup Policy encouraged participants to think big - think different, innovate things differently and deal with the solutions. He motivated the participants by saying that the ecosystem of Innovation and Start-up created at GNU would always open to support their ideas and encourage them that their young minds should always be having persistence to utilize this ecosystem availed for nurturing the innovation by GNU.

Prof Remi Mitra, Center for Entrepreneurship, GNU welcomed all the participants registered in the SSIP and incubates and discussed with them needs to evolve system and mechanisms to convert the present demographic dividend into high quality entrepreneurial human resource. She highlighted on the very basic fact that Every enterprise that stands as a monolith today started somewhere as an entrepreneurial pursuit as a kernel of idea residing in the minds of one or two young budding students. She also explained the entire module 1 and elaborated on various Parts of first module viz. Part 1: Idea Identification and Assessment, Part 2: A Workshop on Digital Marketing, Part 3: A study on Consumer Behaviour .





Part 1: IDEA IDENTIFICATION AND ASSESMENT

The First Part of Entrepreneurship 101 was conducted on September 8, 2019 on the topic Idea Identification and Assessment . This block consisted on various aspects of Idea generation, the first building block of beginning of any enterprise and included subtopics like Sources of new ideas , Techniques for generating Ideas, Essentials of Entrepreneurship, How an Idea can change our life?- Idea to Opportunity, Steps involved in tapping the opportunity and finally Opportunity to Business Conversion. The Resource person for this session was Mr P Pradeep Kumar CEO and Founder of Exeo Consulting Ltd. The mode of delivery of session were lecture, discussion, case study, simulation techniques where more than 30 students participated from various educational background including Computer Engineering, IOT, Biomedical engineering, Management participated and interacted during the session.



Part 2: A WORKSHOP ON DIGITAL MARKETING.

The Second Part of Entrepreneurship 101 was conducted on September 14, 2019 where in a workshop on digital marketing was done for more than 30 students from various educational background including Computer Engineering, IOT, Biomedical engineering, Management participated. A one day hands on training programme on Digital marketing was designed to make students more effective in developing the digital marketing strategies for their own start up and enterprise Mr Saurabh Pandey founder of Brandveda provided his technical expertise to the students.



PART 3: A STUDY ON CONSUMER BEHAVIOUR

The third Part of Entrepreneurship 101 was conducted on September 21, 2019 which introduced the students to the influence that consumer behaviour has on marketing activities and included details on Introduction market strategy and consumer behaviour, Perception and consumer behaviour, Concepts on Attitude and consumer behaviour, Market Segmentation and Positioning, Analysis of Market environment, and essentially Building your Marketing Plan. This session was taken by Mr A.B Raju Founder CEO Biztrans and more than 30 students participated from various educational background including Computer Engineering, IOT, Biomedical engineering, Management participated and interacted during the session.



GANPAT UNIVERSITY											
CENTRE FOR ENTREPRENEURSHIP											
Programme		Entrepreneurship 101				Branch/Spec	-				
Semes	ster		Modul	e-l			Version -				
Effect	ive fron	n <i>Acad</i>	<i>demic</i> Ye	ear	-		Effective for	the batch Adm	itted in	-	
Subjeo	ct code		1OS10	2	Subject N	Name	Idea Validation Workshop				
Teach	ing sch	eme				1	Examination	scheme (Mark	s)		
(Per w	/eek)	Lectı)	ure(DT	Pract	ical(Lab.)	Total		CE	SEE	Tot	al
		L	TU	Р	TW						
Credit		-	-	-	-	-		-	-	-	
Hours		-	-	-	-	-	Practical	-	-	-	
Pre-re	quisite	s:									
Learni	ing Out	come:									
 Enabling participants to understand various facets of starting and managing their business Providing participants with business development support to enable them to pitch their business to investors and other stakeholders. This unique model delivers the training in a modular format with emphasis on Intensive business training 					0						
Unit	, .,					C	ontent				Hr
Ontent Content 1 Idea Identification and Assessment: Sources of new ideas, Techniques for generating Ideas, Essentials of Entrepreneurship, How an Idea can change our life?, Idea to Opportunity, Steps involved in tapping the opportunity, Opportunity to Business						10					
2 A study on consumer behavior: Introduction market strategy and consumer behavior, Perception and consumer behavior, Attitude and consumer behavior, Market Segmentation and Positioning, Analysis of Market environment, Building your Marketing Plan					10						
 Positioning, Analysis of Market environment, Building your Marketing Plan Workshop On Digital Marketing: Digital Marketing Top strategies, Competitive Analysis using top tools, SEO Introduction, PPC Introduction, Social Media Introduction, Keyword Planner, Spying on Competitors Activity, Search Ads & Display Ads, How to Run Search Ads, Ad words Structure, Introduction to Quality Score and Ad rank, Targeting Methods - Search & display, Live Campaign - Search & display Campaign, Learning from Our Live Campaigns, Social media introduction, Lead gen Strategies, Funnel Introduction, Content Cycle, TOFU , MOFU, BOFU, Content Research, Content Calendar, Practical Tools, Content Tools, FB Ads, Spying on FB Ads/Social media, Practical & Assignments 					10						

GANPAT UNIVERSITY- FACULTY OF MANAGEMENT STUDIES

V. M. PATEL INSTITUTE OF MANAGEMENT

"Entrepreneurship 101: Accelerator Training "Idea Identification and Assessment" Date: Sep 8, 2019, Saturday Venue: Seminar Hall, City Office & Information Centre Ganpat University, Ahmedabad Time Table

Sr. No	Topics	Time
1	Registration/ Refreshment & Kit Distribution	9:00 AM to 9:30 AM
2	Inauguration & Welcome to Guest	9:30 AM to 9:40 AM
3	Introduction theories and process of Entrepreneurship	9:40 AM- 11:00 AM
4	Sources of new Ideas and techniques for generating ideas	11:00 AM- 12:00 PM
5	A Good Idea is not Enough	12:00 PM-01:00 PM
	LUNCH BREAK (01:00 PM-01:30)PM)
6	Idea to Opportunity	01:30 PM-03:00 PM
7	Steps involved in assessing Business Potential of Idea	03:00 PM- 04:00PM
8	Steps involved in tapping the opportunity	04:00 PM-05:00 PM
9	Hands on training given to students from their home	3 Hours

"Entreprenuership 101" Time Table for 14th September,2019 workshop on "A Digital Marketing"

Sr.no	Sections	Topics	Time		
	Re	09:00 AM- 09:30 AM			
1		Digital Marketing Top strategies, Competitive Analysis using top tools SEO Introduction PPC Introduction	09:30 AM- 10:30 AM		
	Part A	Keyword Planner Spying on Competitors Activity Spying on Competitors Activity	10:30 AM-11:30 AM		
	Part B	Search ADs & Display Ads How to Run Search Ads Adwords Structure ntroduction to Quality	11:30 AM- 12:30 PM		
		LUNCH BREAK (12:30 PM-01:30PM)			
3	Continue PART B	IScore and Ad rank, Targeting Methods, Live Campaign - Search & display Campaign , Learning from Our Live Campaigns	01:00 PM-02:30 PM		
	PART C	Social media introduction, Lead gen Strategies, Funnel Introduction, Content Cycle	02:30 PM-03:30 PM		
4		TOFU MOFU BOFU Content Research Content Calendar Practical Tools Content Tools FB Ads	03:30 PM- 05:00 PM		

	Spying on FB Ads/Social media Practical & Assignment	
5	Homework of Hands on training to students from their home	3 hours

Entrepreneurship 101 Module 1 Part III Time Table for 21st September,2019 A study on Consumer Behaviour

Sr.no	Topics	Time				
	Registration/Refreshment	09:00 AM- 09:30 AM				
1	Introduction market strategy and consumer behaviour	09:30 AM- 10:30 AM				
2	Perception and consumer behaviour	10:30 AM-11:30 AM				
3	Attitude and consumer behaviour	11:30 AM- 12:30 PM				
	LUNCH BREAK (12:30 PM-01:00PM)					
4	Market Segmentation and Positioning	01:00 PM-02:00 PM				
5	Analysis of Market environment	02:00 PM-03:30 PM				
6	Building your Marketing Plan	03:30 PM- 05:00 PM				
7	Home work to students on case studies	3 hours				

GANPAT UNIVERSITY- FACULTY OF MANAGEMENT STUDIES V. M. PATEL INSTITUTE OF MANAGEMENT Academic Year: 2019-20

List of student Participated

Sr.No.	Name of the student				
1	Kishan chavda				
2	SANILKUMAR MODI				
3	Darshan Modi				
4	Nikhil Singh				
5	Aman Rathore				
6	Kailash vaghela				
7	Hardik Panchal				
8	Jyoti chavda				
9	KALPANA SINGH				
10	Desai Aarti ishwarbhai				
11	Tanmay punj				
12	Jatin makwana				
13	Akash sheth				
14	Patel Rutvik Dinesh Bhai				
15	PATEL ARCHITKUMAR MAHESHBHAI				
16	Goswami Aditya Prakashgiri				
17	KOLI JAGRUTI GOPAL				
18	Yuvraj singh				
19	AMRUTIYA RAJ JIGNESHKUMAR				
20	KOLI ARUXI DINESH				
21	Naimisha rajpura				
22	Prajapati Shweta Amathabhai				
23	Moin Mamu				

GANPAT UNIVERSITY- FACULTY OF MANAGEMENT STUDIES V. M. PATEL INSTITUTE OF MANAGEMENT Academic Year: 2019-20

Sr.No.	Name of the student
23	MODH MILANKUMAR BASIKBHAL
24	PUJARA RADHIKA RAJENDRAKUMAR
25	Divya bhurani
26	Barot Jigar
27	THAKKAR YATRIBEN GIRISHKUMAR
28	Anshu dhelariya

Seal of the Institute



(Dr. Hiren J. Patel) I/C. Head V.M.Patel Institute of Management Ganpat University,Kherva-384012 Dist.Mehsana (North Gujarat)



Certificate

This is to certify that

Mr./Ms DIVYA BHURANI

has participated in Phase <u>I</u> at Ganpat University

Accelerator Training Program

ENTREPRENEURSHIP 101

Organized by Ganpat University Centre for Entrepreneurship and Ganpat University Incubation Centre

Supported by Student Startup and Innovation Policy (SSIP), Goverment of Gujarat.

Remi Hitra.

Prof. Remi Mitra Chairperson Center for Entrepreneurship

320mm

Prof. Saurabh Dave Dean-Student Startup & Incubation Centre

Dr. Amit Patel Pro-Vice Chancellor & Executive Registrar

Dr. Mahendra Sharma Pro-Chancellor & Director General

Ganpat University,



FACULTY OF MANAGEMENT STUDIES V. M. PATEL INSTITUTE OF MANAGEMENT <u>Centre for Entrepreneurship and Incubation Centre in</u> <u>support with Student Start up and Innovation Policy</u> <u>Report : Entrepreneurship 101- Module-II (Phase -II)</u> Financial Accounting and Analysis and Perspective of

Business Plan (10S103)



To give a much needed impetus to budding Entrepreneurs, Ganpat University undertook important initiative for strengthening the student start up ecosystem by launching an Entrepreneurship 101 for students registered under SSIP. Entrepreneurship 101 was organized by Ganpat University in support with Student Start Up and Innovation Policy, in pursuance to facilitate Entrepreneurship spirit among our students and to enhance and elevate the entrepreneurial Ecosystem, Ganpat University Centre for Entrepreneurship and Incubation Centre conducted Accelerator training Program Entrepreneurship 101. The Second Module was over spanning a period of 30 hours.

About The Programme: Given the riskiness of a new venture, the acquisition of capital funding is particularly challenging, and many entrepreneurs deal with it via bootstrapping: financing a business using methods such as using their own money, providing <u>sweat equity</u> to reduce labor costs, minimizing inventory, and factoring receivables. While some entrepreneurs are lone players struggling to get small businesses off the ground on a <u>shoestring</u>, others take on partners armed with greater access to capital and other resources. In these situations, new firms may acquire financing from venture capitalists, angel investors, hedge funds, crowdsourcing, or through more traditional sources such as bank loans. Entrepreneurship 101_Module-II (Phase II) on Finance and Accounting is a comprehensive training program to start and run a business for budding entreprenuers, who are often need to understand business terms that may not be well defined in a standard dictionary. Our glossary of business terms provides definitions for common terminology and acronyms in business plans, accounting, finance, and other aspects of small business

INAUGURAL CEREMONY OF ENTREPRENEURSHIP 101

Prof Remi Mitra, Center for Entrepreneurship, GNUI welcomed the guest Dr.Saurabh Dave, Expert lecturer and all the participants registered in the SSIP and incubates and suggested that Sometimes entrepreneurs think they can leave the finance and the numbers to the bookkeepers and accountant,which is not a good Idea . An entreprenuer certainly want to have a bookkeeper. Which can be use them to collect and analyze the financial data, to understand the underlying financial flows of a business. That's key to your understanding of how to manage a business. And sometimes finance is not about money. This Modele-II includes Part 1:Insights into Business and Accounting, Part 2:Key role of Finance & Taxation Policies for Emerging Startups, Part 3:Introduction to Business Planning and learn how to build an effective business plan for your venture.



Dr. Saurabh Dave, Dean-Incubation Centre & Student Start-up Policy, GUNI welcomed all the participants and given the speech on Start-up and different opportunities for Startup. He motivated the student by giving the example of different startups which are Incubated in incubation centre and also suggested the students about the importance of finance and accounts in startups.

PART 1: INSIGHTS INTO BUSINESS AND ACCOUNTING

The First Part of Entrepreneurship 101 was conducted on February 01, 2020 on the topic Insights into Business and Accounting. This block consisted on various aspects of basics Finance and Accounting terms necessary for budding entrepreneurs included subtopics like Nature & Purpose of Business, Forms of Business Organisation, Basic Accounting Terms, Principles of Accounting. The Resource person for this session was Mr Hrashesh Jasvani ,Chartered Account and the Founder of Think Tank Edventures. The mode of delivery of session were lecture, discussion, case study, simulation techniques where more than 70 students participated from various educational background including Engineering, Management and Pharmacy participated and interacted during the session.





PART 2: KEY ROLE OF FINANCE & TAXATION POLICIES FOR EMERGING STARTUPS.

The Second Part of Entrepreneurship 101- Module-II was conducted on February 02nd, 2020 where in a seminar: Key role of Finance & Taxation Policies for Emerging Startups was done for more than 70 students from various educational background including Engineering,Management, Pharmacy participated. A one day hands on training programme was designed to make students more effective in Funding Opportunities for Start Ups - Seed Funding - Venture Capital Funding - Loans from Financial Institutions - Start Up Assistance under Government Schemes as well as in Sources of Finance Raising of Funds - Debt v/s Equity Capital Budgeting & Working Capital Mr Harshesh Jasvani and the Mr.Anand Jasvani founder of Think Tank Edventures provided their expertise to the students.





PART 3: INTODUCTION TO BUSINESS PLANNING AND LEARN HOW TO BUILD AN EFFECTIVE BUSINESS PLAN FOR YOUR VENTURE

The third Part of Entrepreneurship 101_Module-II was conducted on February 08, 2020 which introduced the students to the details on Introduction to Business planning and to build an effective business plan this Part focuses on the subtopics like Entreprenuerial Oppurtunities and **Business** Failure, Defining the Business Plan, Authoring the Business Plan,Sales Forcasting, Managing the Sales Pipeline, Pricing . This session was taken by CA Ms. Anju Pasari more than 70 students participated from various educational background including Engineering, Pharmacy, Management participated and interacted during the session. Ms.Pasari have given the task to the students and asked them to create a business plan on Healthy food products. Students in a group made the business plan and presented their idea.



GANPAT UNIVERSITY											
CENTRE FOR ENTREPRENEURSHIP											
Progra	amme		Entrepreneurship 101			Branch/Spec	-				
Seme	ster		Modul	e-II			Version	-			
Effect	ive fror	n <i>Aca</i>	<i>demic</i> Ye	ar	-		Effective for	the batch Adm	itted in	-	
Subje	ct code		10S103		Subject N	Name	Financial Acc Perspective c	counting and A of Business Pla	nalysis and n		
Teach	ing sch	eme		1		1	Examination	scheme (Mark	s)		
(Per w	veek)	Lecti)	ure(DT	Pract	ical(Lab.)	Total		CE	SEE	Tot	tal
		L	TU	Р	TW						
Credit		-	-	-	-	-	Theory	-	-	-	
Hours		-	-	-	-	-	Practical	-	-	-	
Pre-re	equisite	s:									
Loarn	ing Out	como	•								
Leann		come.					a a lucia				
	•	Help	os to dev	relop B	usiness Pla	ng and A n	Analysis				
Theor	y syllab	us									
Unit						C	ontent				Hr
1 Insights from Financial Statements: Principles of Accounting, Meaning and Objectives of Financial Statement, Balance Sheet- Concept & Understanding, Profit & Loss Account/Income Statement, Financial Statement Analysis, Types of Costs and Cost Sheet Analysis, Break even analysis							10				
Financing Venture with Perspectives of Insurance & Taxation Policy: Functions of Finance & Importance of Finance, Raising Of Funds: Internal and external, Sources of Finance to Entrepreneurs, Capital Budgeting, Perspectives of Seed Funding, Venture Capital Funding, Funding from banks, Lease Financing, Funding Opportunities for Start Ups in India, Concept of Insurance & Types of Insurance: Fire, Burglary, Marine, Taxation from Perspective of SMEs						10					
 Insurance & Types of Insurance: Fire, Burglary, Marine, Taxation from Perspective of SMEs Introduction to Business Planning and Learn how to build an effective Business Plan for your venture: Entrepreneurial Opportunities and Business Plan, Business Failures, Introduction to Business Plan: Perspectives to be considered in Business plan preparation, Defining the Business Plan, Authoring the Business Plan, Sales forecasting, Managing the sales pipeline, Developing Marketing Mix(Brief in form of Activity), Pricing, Action plan of making Financial Statement Analysis & Sources of Finance (Theory already covered in prior workshop), Final thoughts on business plan 						10					

GANPAT UNIVERSITY- FACULTY OF MANAGEMENT STUDIES

V. M. PATEL INSTITUTE OF MANAGEMENT

Entrepreneurship 101: Accelerator Training-Module-II "Insights into Business & Accounting" Date: Feb 01, 2020,Saturday Venue: MBA Auditorium Ganpat University, Mehsana Time Table

Sr. No	Topics	Time
1	Registration/ Refreshment & Kit Distribution	9:00 AM to 9:30 AM
2	Inauguration & Welcome to Guest	9:30 AM to 9:40 AM
3	Insights into Business & Accounting- Nature & Purpose of Business,Forms of Business Organisation,Basic Accounting Terms,Principles of Accounting	9:40 AM- 11:00 AM
4	Capital Expenditure v/s Revenue Expense,Accounting Process,Manual v/s Computerised Accounting ,	11:00 AM- 12:30 PM
6	LUNCH BREAK FACILITY	Y MADE BY STUDENT ITSELF (12:30PM- 01:00PM)
7	Financial Statements - Balance Sheet - Profit and Loss Account - Cash Flow Statement	01:00 PM- 03:00 PM
8	Types of Accounting Types of Cost and Cost Sheet Analysis Pricing Decision & Strategy	03:00 PM-05:00 PM
9	Home work on hands on training to students	3 hours

Entrepreneurship 101: Accelerator Training-Module-II

"Key Role of Finance & Taxation Policies for Emerging Start Ups"

Date:Feb 02, 2020,Sunday

Venue: MBA Auditorium

Ganpat University, Mehsana

Time Table

Sr. No	Topics	Time				
1	Sources of Finance Raising of Funds - Debt v/s Equity Capital Budgeting & Working Capital	9:00 AM to 10:00AM				
2	Financial Statement Analysis Breakeven Analysis	10:00 AM to 11:00 AM				
3	Funding Opportunities for Start Ups - Seed Funding - Venture Capital Funding - Loans from Financial Institutions - Start Up Assistance under Government Schemes	11:00 AM- 12:30 AM				
4	LUNCH BREAK FACILITY MADE BY STUDENT ITSELF (12:30PM-01:00PM)					
5	Direct Tax V/s Indirect Taxes - Income Tax - Goods & Service Tax	01:00 PM- 03:00 PM				
6	Tax Benefits to Start Ups	03:00 PM-05:00 PM				
7	Home work on hands on training to students	2.5 hours				

Entrepreneurship 101: Accelerator Training-Module-II

"Introduction to Business Planing and learn how to build an effective business plan for your venture "

Date:Feb 08, 2020,Saturday

Venue:BBA Seminar Hall,Ganpat University, Mehsana

Time Table

Sr. No	Topics	Time				
1	What a Business?, Advantages & Disadvantages to start a Business, Barriers to starting a business	9:00 AM to 10:00AM				
2	What is a business plan? , Benefits of Business plan	10:00 AM to 11:00 AM				
3	A Standard Business Plan Outline, What is a Sales Pipeline: REVENUE GROWTH	11:00 AM- 01:00 PM				
4	LUNCH BREAK FACILITY MADE BY STUDENT ITSELF (01:00PM-01:30PM)					
5	MARKETING MIX:	01:30 PM- 02:30 PM				
6	PERSONNEL PLANS FOR A BUSINESS,STANDARD BUSINESS RATIOS,BREAK EVEN ANALYSIS:	02:30 PM-03:30 PM				
7	Business Paln Review	03:30 PM- 05:00 PM				
8	Home work on hands on training to students	2.5 Hours				

GANPAT UNIVERSITY- FACULTY OF MANAGEMENT STUDIES V. M. PATEL INSTITUTE OF MANAGEMENT Academic Year: 2019-20 List of student Participated from VMPIM

Sr. No.	Name of the student
1	Raval manali govindbhai
2	Chavda jyoti
3	Punj Tanmay Nareshkumar
4	Modh milan
5	Parth Panchal
6	Priyanka kamleshbhai Parmar
7	Modi ranchhod pramod bhai
8	Anshu Dhelariya
9	Desai Aarti
10	Patel Meetkumar
11	Mistri Gunjan
12	Patel Purti
13	Dhara Kalariya
14	Darshan Modi
15	Barot Jigar



(Dr. Hiren J. Patel)

I/C. Head V.M.Patel Institute of Management Ganpat University,Kherva-384012 Dist.Mehsana (North Gujarat)


CERTIFICATE

This is to certify that

Mr. Parth Panchal

has participated in the Phase-II at Ganpat University

Acceleration Training Program

ENTREPRENEURSHIP 101

Organized by Ganpat University Centre for Entrepreneurship

and Ganpat University Incubation Centre

Supported by Student Startup and Innovation Policy (SSIP), Government of Gujarat

Kimi

Prof.Remi Mitra Chairerson Centre for Entrepreneurship

Dr.Saurabh Dave Dean Student-Startup & Incubation Centre

Dr.Amit Patel Pro Vice-Chancellor & Executive Registrar

Dr.Mahendra Sharma Pro-Chancellor & Director General

Student's Notice

Date: 20/08/2018

It is hereby inform that Registration for Value added **courses** offered by the institute for the year academic year 2018-19 is initiated.

Application are invited for the below mentioned value added course offered by VMPIM

Entrepreneurship Development and St.	Duration	Fees
CEU02EDS)	30 hours	Nil
Fundamental of Digital Media Marketing (CEU02DMM)	30 hours	Nil

The student of MBA interested for the course required report the coordinator (Dr. Dipesh Dasani) of value added course up to 24th August 2018.

Seal of the Institute nerva 406e

(Dr. Hiren J. Patel) I/C. Head

V.M.Patel Institute of Management Ganpat University,Kherva-384012 Dist.Mehsana (North Gujarat)

Entrepreneurship Development and Start-up (CEU02EDS)

Course Introduction: The course titled Entrepreneurship Development and Start-up, is designed to give an in-depth understanding on various aspects of innovation, creativity, evolving business models, incubation and entrepreneurship. The course also includes sessions on blue ocean strategy and technology incubation which are proving as game changer in today's competitive scenario. The course is a blend of theory and practice therefore this course does not require any prerequisite and will be useful to understand innovation and its applications in different spheres of development and growth.

COURSE PLAN

	SL.NO	Module Name
	1	Analyzing the Current Business Scenario, Innovation and Creativity- An Introduction
	2	Challenges of Innovation, Steps of Innovation Management, Idea Management System, Divergent Vs Convergent Thinking, Levers of Idea
	3	Experimentation in Innovation Management, Idea Championship, Participation for Innovation , Co-creation for Innovation Production
	4	What is a Business Model ,Who is and Entrepreneur ,Social Entrepreneurship Blue Ocean Strategy-I ,Blue Ocean Strategy-II
and the second second	5	Marketing of Innovation, Technology Innovation Process, Technological Innovation Management Planning, Technological Innovation Management Strategies, Technology Forecast
(6	Sustainability Innovation and Entrepreneurship, Types of Sustainable Entrepreneurship, Conditions for Sustainabiling Innovation, SME's strategic involvement in sustainable
7	,	Business Models and value proposition, Business Model Failure: Reasons and Remedies, Incubators : Business Vs Technology, Managing Investor for Innovation, Future markets and Innovation needs for India

Fundamental of Digital Media Marketing (CEU02DMM)

COURSE PLAN

SL.NO	Module Name
1	Principles of Digital Marketing : Inbound and Outbound Strategies , Digital Media Examples, Traditional vs. Digital Marketing. Principles of DMI's 3i Methodology, Digital Channels
2	Digital Research, Audience Research, Social Listening Platforms, Social Listening and Audience Research Tools
3	Connecting with the Customer, The Buyer's Journey, Five Marketing Functions, 360 Digital Marketing Campaign, Marketing Functions and Buyer Journey Stages, Digital Marketing Concepts, Principles, Procedures, and Table
4	Developing Objectives: SMART Objectives
5	Cultural Research, Competitive Research Platforms and Tools , Industry Trend Research, Digital Research
6	Content Marketing Concepts and Strategy, Benefits of Content Marketing, Qualities of Effective Content, Types of Content, Content Alignment with the Buyer's Journey, Community Management, Content Marketing Strategy
7	Creating and Curating Content, Content Stakeholders, Content Types and Formats, Content Tools, Content Creation and Curation, Content Creation Best Practice, Brand Components, Content Personalization
8	Publishing and Distributing Content, Content Platforms, Benefits and Challenges of Content Seeding, Content Scheduling Techniques and Tools, Content Promotion Strategies

GANPAT UNIVERSITY- FACULTY OF MANAGEMENT STUDIES

V. M. PATEL INSTITUTE OF MANAGEMENT

Date	Time	Subject
31/08/2018	10:00 am to 12:00 pm 1:00 pm to 4:00 pm	Entrepreneurship Development and Start-up/ Fundamental of Digital Media Marketing
08/09/2018	10:00 am to 12:00 pm 1:00 pm to 4:00 pm	Entrepreneurship Development and Start-up/ Fundamental of Digital Media Marketing
22/09/2018	10:00 am to 12:00 pm 1:00 pm to 4:00 pm	Entrepreneurship Development and Start-up/ Fundamental of Digital Media Marketing
29/09/2018	10:00 am to 12:00 pm 1:00 pm to 4:00 pm	Entrepreneurship Development and Start-up/ Fundamental of Digital Media Marketing
27/10/2018	10:00 am to 12:00 pm 1:00 pm to 4:00 pm	Entrepreneurship Development and Start-up/ Fundamental of Digital Media Marketing
27/10/2018	10:00 am to 12:00 pm 1:00 pm to 4:00 pm	Entrepreneurship Development and Start-up/ Fundamental of Digital Media Marketing

Time Table

GANPAT UNIVERSITY- FACULTY OF MANAGEMENT STUDIES V. M. PATEL INSTITUTE OF MANAGEMENT

Date: 29th October, 2018

Value added course summery report

Faculty of Management studies has organized value added courses on "Entrepreneurship Development and Start-up" and "Fundamental of Digital Media Marketing" for the students of V.M. Patel Institute of Management, Faculty of Management studies, Ganpat University on during academic year 2018-19.

The details about the number of students who have attended enrolled and completed successfully are as follows.

Semester	Value added Course	
	and added Course	No of Student
Sem III	Entrepreneurship Development in	Participated
	(CEU02EDS)	31
Sem III	Fundamental of Digital Maline State	
	(CEU02DMM)	19
	Semester Sem III Sem III	Semester Value added Course Sem III Entrepreneurship Development and Start-up (CEU02EDS) Sem III Fundamental of Digital Media Marketing (CEU02DMM)

The value added course was informative and interesting for the students to build their career. Overall, the value added courses were highly appreciated by the students.

Seal of the Institute

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(Dr. Hiren J. Patel)

I/C. Head V.M.Patel Institute of Management Ganpat University,Kherva-384012 Dist.Mehsana (North Gujarat)

Sr. No.Name of StudentEnrollment NumberAllocated Course1Agrawal ayushiben dilipkumar17044311001Fundamentals of Digital Media Marketing - N/A2Haresh Ahir17044311002Entrepreneurship Development and Start-up - N/A3BAROT RAVIKUMAR KANUBHAI17044311003Entrepreneurship Development and Start-up - N/A4Berva Ajaykumar Pratapsinh17044311004Fundamentals of Digital Media Marketing - N/A5brahmbhatt arpit kumar kamleshkumar17044311005Entrepreneurship Development and Start-up - N/A6Chaudhary Jayesh17044311006Entrepreneurship Development and Start-up - N/A7CHAUHAN RAJESH DILIPBHAI17044311007Entrepreneurship Development and Start-up - N/A8DADUJI AHMAD IBRAHIM17044311008Entrepreneurship Development and Start-up - N/A9DANTROLIYA AMIRSOHEL RASHIDBHAI17044311009Entrepreneurship Development and Start-up - N/A10Desai nishaben valjibhai1704431101Entrepreneurship Development and Start-up - N/A11Divya kumari17044311012Entrepreneurship Development and Start-up - N/A12Harwinder kaur17044311013Entrepreneurship Development and Start-up - N/A13Heena Ben patel17044311014Entrepreneurship Development and Start-up - N/A14jagrala hamja irfanbhai17044311015Entrepreneurship Development and Start-up - N/A15Jenish Patel17044311014Fundamentals of Digital Media Marketing - N/A15Jenish Patel17044311015		Value added courses opted by MBA sem-III student during 2018-19							
1Agrawal ayushiben dilipkumar17044311001Fundamentals of Digital Media Marketing - N/A2Haresh Ahir17044311002Entrepreneurship Development and Start-up - N/A3BAROT RAVIKUMAR KANUBHAI17044311003Entrepreneurship Development and Start-up - N/A4Berva Ajaykumar Pratapsinh17044311004Fundamentals of Digital Media Marketing - N/A5brahmbhatt arpit kumar kamleshkumar17044311005Entrepreneurship Development and Start-up - N/A6Chaudhary Jayesh17044311006Entrepreneurship Development and Start-up - N/A7CHAUHAN RAJESH DILIPBHAI17044311007Entrepreneurship Development and Start-up - N/A8DADUJI AHMAD IBRAHIM17044311008Entrepreneurship Development and Start-up - N/A9DANTROLIYA AMIRSOHEL RASHIDBHAI17044311009Entrepreneurship Development and Start-up - N/A10Desai nishaben valjibhai17044311010Entrepreneurship Development and Start-up - N/A11Divya kumari17044311010Entrepreneurship Development and Start-up - N/A12Harwinder kaur17044311010Entrepreneurship Development and Start-up - N/A13Heena Ben patel17044311012Entrepreneurship Development and Start-up - N/A14jagrala hamja irfanbhai17044311013Entrepreneurship Development and Start-up - N/A15Jenish Patel17044311015Fundamentals of Digital Media Marketing - N/A15Jenish Patel17044311015Fundamentals of Digital Media Marketing - N/A14Jagrala hamja irfanbhai<	Sr. No.	Name of Student	Enrollment Number	Allocated Course					
2Haresh Ahir17044311002Entrepreneurship Development and Start-up - N/A3BAROT RAVIKUMAR KANUBHAI17044311003Entrepreneurship Development and Start-up - N/A4Berva Ajaykumar Pratapsinh17044311004Fundamentals of Digital Media Marketing - N/A5brahmbhatt arpit kumar kamleshkumar17044311005Entrepreneurship Development and Start-up - N/A6Chaudhary Jayesh17044311006Entrepreneurship Development and Start-up - N/A7CHAUHAN RAJESH DILIPBHAI17044311007Entrepreneurship Development and Start-up - N/A8DADUJI AHMAD IBRAHIM17044311007Entrepreneurship Development and Start-up - N/A9DANTROLIYA AMIRSOHEL RASHIDBHAI17044311009Entrepreneurship Development and Start-up - N/A10Desai nishaben valjibhai17044311010Entrepreneurship Development and Start-up - N/A11Divya kumari17044311010Entrepreneurship Development and Start-up - N/A12Harwinder kaur17044311012Entrepreneurship Development and Start-up - N/A13Heena Ben patel17044311012Entrepreneurship Development and Start-up - N/A14jagrala hamja irfanbhai17044311014Fundamentals of Digital Media Marketing - N/A15Jenish Patel17044311015Fundamentals of Digital Media Marketing - N/A16JOSHI DVARKESH JAGDISHKUMAR17044311016Entrepreneurship Development and Start-up - N/A17Ahesanali kadival17044311017Fundamentals of Digital Media Marketing - N/A18Khan Sohelkhan Aslamkhan	1	Agrawal ayushiben dilipkumar	17044311001	Fundamentals of Digital Media Marketing - N/A					
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5brahmbhatt arpit kumar kamleshkumar17044311005Entrepreneurship Development and Start-up - N/A6Chaudhary Jayesh17044311006Entrepreneurship Development and Start-up - N/A7CHAUHAN RAJESH DILIPBHAI17044311007Entrepreneurship Development and Start-up - N/A8DADUJI AHMAD IBRAHIM17044311008Entrepreneurship Development and Start-up - N/A9DANTROLIYA AMIRSOHEL RASHIDBHAI17044311009Entrepreneurship Development and Start-up - N/A10Desai nishaben valjibhai17044311010Entrepreneurship Development and Start-up - N/A11Divya kumari17044311010Entrepreneurship Development and Start-up - N/A12Harwinder kaur17044311011Entrepreneurship Development and Start-up - N/A13Heena Ben patel17044311012Entrepreneurship Development and Start-up - N/A14jagrala hamja irfanbhai17044311013Entrepreneurship Development and Start-up - N/A15Jenish Patel17044311014Fundamentals of Digital Media Marketing - N/A16JOSHI DVARKESH JAGDISHKUMAR17044311016Entrepreneurship Development and Start-up - N/A17Ahesanali kadival17044311017Fundamentals of Digital Media Marketing - N/A18Khan Sohelkhan Aslamkhan17044311019Fundamentals of Digital Media Marketing - N/A	4	Berva Ajaykumar Pratapsinh	17044311004	Fundamentals of Digital Media Marketing - N/A					
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11Divya kumari17044311011Entrepreneurship Development and Start-up - N/A12Harwinder kaur17044311012Entrepreneurship Development and Start-up - N/A13Heena Ben patel17044311013Entrepreneurship Development and Start-up - N/A14jagrala hamja irfanbhai17044311014Fundamentals of Digital Media Marketing - N/A15Jenish Patel17044311015Fundamentals of Digital Media Marketing - N/A16JOSHI DVARKESH JAGDISHKUMAR17044311016Entrepreneurship Development and Start-up - N/A17Ahesanali kadival17044311017Fundamentals of Digital Media Marketing - N/A18Khan Sohelkhan Aslamkhan17044311019Fundamentals of Digital Media Marketing - N/A	10	Desai nishaben valjibhai	17044311010	Entrepreneurship Development and Start-up - N/A					
12Harwinder kaur17044311012Entrepreneurship Development and Start-up - N/A13Heena Ben patel17044311013Entrepreneurship Development and Start-up - N/A14jagrala hamja irfanbhai17044311014Fundamentals of Digital Media Marketing - N/A15Jenish Patel17044311015Fundamentals of Digital Media Marketing - N/A16JOSHI DVARKESH JAGDISHKUMAR17044311016Entrepreneurship Development and Start-up - N/A17Ahesanali kadival17044311017Fundamentals of Digital Media Marketing - N/A18Khan Sohelkhan Aslamkhan17044311019Fundamentals of Digital Media Marketing - N/A	11	Divya kumari	17044311011	Entrepreneurship Development and Start-up - N/A					
13Heena Ben patel17044311013Entrepreneurship Development and Start-up - N/A14jagrala hamja irfanbhai17044311014Entrepreneurship Development and Start-up - N/A15Jenish Patel17044311014Fundamentals of Digital Media Marketing - N/A16JOSHI DVARKESH JAGDISHKUMAR17044311016Entrepreneurship Development and Start-up - N/A17Ahesanali kadival17044311017Fundamentals of Digital Media Marketing - N/A18Khan Sohelkhan Aslamkhan17044311019Fundamentals of Digital Media Marketing - N/A	12	Harwinder kaur	17044311012	Entrepreneurship Development and Start-up - N/A					
14jagrala hamja irfanbhai17044311014Fundamentals of Digital Media Marketing - N/A15Jenish Patel17044311015Fundamentals of Digital Media Marketing - N/A16JOSHI DVARKESH JAGDISHKUMAR17044311016Entrepreneurship Development and Start-up - N/A17Ahesanali kadival17044311017Fundamentals of Digital Media Marketing - N/A18Khan Sohelkhan Aslamkhan17044311019Fundamentals of Digital Media Marketing - N/A	13	Heena Ben patel	17044311013	Entrepreneurship Development and Start-up - N/A					
15Jenish Patel17044311015Fundamentals of Digital Media Marketing - N/A16JOSHI DVARKESH JAGDISHKUMAR17044311016Entrepreneurship Development and Start-up - N/A17Ahesanali kadival17044311017Fundamentals of Digital Media Marketing - N/A18Khan Sohelkhan Aslamkhan17044311019Fundamentals of Digital Media Marketing - N/A	14	jagrala hamja irfanbhai	17044311014	Fundamentals of Digital Media Marketing N/A					
16 JOSHI DVARKESH JAGDISHKUMAR 17044311016 Entrepreneurship Development and Start-up - N/A 17 Ahesanali kadival 17044311017 Fundamentals of Digital Media Marketing - N/A 18 Khan Sohelkhan Aslamkhan 17044311019 Fundamentals of Digital Media Marketing - N/A	15	Jenish Patel	17044311015	Fundamentals of Digital Media Marketing - N/A					
17 Ahesanali kadival 17044311017 Fundamentals of Digital Media Marketing - N/A 18 Khan Sohelkhan Aslamkhan 17044311019 Fundamentals of Digital Media Marketing - N/A	16	JOSHI DVARKESH JAGDISHKUMAR	17044311016	Entrepreneurship Development and Start up N/A					
18 Khan Sohelkhan Aslamkhan 17044311019 Fundamentals of Digital Media Marketing - N/A	17	Ahesanali kadival	17044311017	Fundamentals of Digital Media Marketing N/A					
	18	Khan Sohelkhan Aslamkhan	17044311019	Fundamentals of Digital Media Marketing - N/A					
19 Kinnary kotwal 17044311020 Fundamentals of Digital Media Marketing - N/A	19	Kinnary kotwal	17044311020	Fundamentals of Digital Media Marketing - N/A					
20 Makwana kishan B 17044311021 Entrepreneurship Development and Start up N/A	20	Makwana kishan B	17044311021	Entrepreneurship Development and Start up, N/A					
21 Nazmin Mukhi 17044311022 Fundamentals of Digital Media Marketing N/A	21	Nazmin Mukhi	17044311022	Eundamentals of Digital Media Marketing N/A					
22 Milan Nayak 17044311023 Entrepreneurship Development and Start up N/A	22	Milan Nayak	17044311023	Entrepreneurship Development and Start up N/A					
23 himanshu pandya 17044311025 Fundamentals of Digital Media Marketing N/A	23	himanshu pandya	17044311025	Fundamentals of Digital Media Marketing N/A					
24 Patel Ami Rasikbhai 17044311028 Entrepreneurshin Development and Start up N/A	24	Patel Ami Rasikbhai	17044311028	Entrepreneurship Development and Start up N/A					
25 Patel amiben navinbhai 17044311029 Fundamentals of Digital Media Marketing - N/A	25	Patel amiben navinbhai	17044311029	Fundamentals of Digital Media Marketing N/A					
26 Patel Ankit 17044311030 Entrepreneurship Development and Start-up. N/A	26	Patel Ankit	17044311030	Entrepreneurship Development and Start-up_N/A					
27 Patel Hardikkumar Pravinbhai 17044311032 Entrepreneurship Development and Start-up N/A	27	Patel Hardikkumar Pravinbhai	17044311032	Entrepreneurship Development and Start-up - N/A					
28 Harsh hareshbhai patel 17044311033 Entrepreneurship Development and Start-up - N/A	28	Harsh hareshbhai patel	17044311033	Entrepreneurship Development and Start-up - N/A					
29 Patel Hiteshkumar Visabhai 17044311034 Fundamentals of Digital Media Marketing - N/A	29	Patel Hiteshkumar Visabhai	17044311034	Fundamentals of Digital Media Marketing - N/A					
30 Nisha patel 17044311038 Fundamentals of Digital Media Marketing - N/A	30	Nisha patel	17044311038	Fundamentals of Digital Media Marketing - N/A					
31 Patel parth visnubhai 17044311039 Entrepreneurship Development and Start up. N/A	31	Patel parth visnubhai	17044311039	Entrepreneurship Development and Start up N/A					
32 Tejas Patel 17044311040 Entrepreneurship Development and Start-up - N/A	32	Tejas Patel	17044311040	Entrepreneurship Development and Start-up - N/A					
33 Patel trupal pankajbhai 17044311041 Fundamentals of Digital Media Marketing, N/A	33	Patel trupal pankajbhai	17044311041	Fundamentals of Digital Media Marketing N/A					
34 Pathan Asifkhan Mustufakha 17044311042 Entrepreneurship Development and Start up. N/A	34	Pathan Asifkhan Mustufakha	17044311042	Entrepreneurship Development and Start up N/A					
35 Prajapati hetal mukeshbhai 17044311043 Entrepreneurship Development and Start-up - N/A	35	Prajapati hetal mukeshbhai	17044311043	Entrepreneurship Development and Start-up - N/A					
36 Prajapati umangbhai bhagawanbhai 17044311044 Fundamentals of Digital Media Marketing N/A	36	Prajapati umangbhai bhagawanbhai	17044311044	Fundamentals of Digital Media Marketing N/A					
37 Rakesh Rajpurohit 17044311045 Fundamentals of Digital Media Marketing N/A	37	Rakesh Rajpurohit	17044311045	Fundamentals of Digital Media Marketing N/A					

3	8 Rathod Nirali Rupeshbhai		
39	Shrushti RajeshKuman Data I	17044311046	Fundamentals of Digital Markinson
40	Singh suppy estic	17044311047	Fundamentals of Digital Media Marketing - N/A
41	Solanki Nobolban I. I. I.	17044311048	Entreprenourship D
12	Solarki Nehalben Jashubhai	17044311049	Entrepreneurship Development and Start-up - N/A
12	Soni II	17044311050	Entrepreneurship Development and Start-up - N/A
43	Soni Hardik Rajendrakumar	17044311051	Entrepreneurship Development and Start-up - N/A
44	Soni parth dineshkumar	1704/311052	Entrepreneurship Development and Start-up - N/A
45	Rimpal soni	17044311052	Entrepreneurship Development and Start-up - N/A
46	Sukhdeep singh	17044311053	Fundamentals of Digital Media Marketing - N/A
47	Suthar rinkalben ramanlal	17044311054	Entrepreneurship Development and Start-up - N/A
48	Tijil Prakash	17044311055	Entrepreneurship Development and Start-up N/A
49	Vijapura moiuddin	17044311056	Entrepreneurship Development and Start up N/A
50	Patel nileshkumar Rasikhbai	1/044311057	Entrepreneurship Development and Start-up - N/A
		17044411036	Fundamentals of Digital Media Marketia
			- Bran Media Marketing - N/A



5 (Dr. Hiren J. Patel) I/C. Head V.M.Patel Institute of Management Ganpat University,Kherva-384912 Dist.Mehsana (North Gujarat)



Certificate of Completion of Value Added Course 2018-19

This is to certify that

BAROT RAVIKUMAR KANUBHAI

the bona fide student of the Ganpat University- V. M. Patel Institute of Management has successfully completed the course on

Entrepreneurship Development & Start-up

for the duration of 30 hours during his/her Semester III as a part of his /her MBA program.



DR. HIR EN PATEL Head(1/C)V. M. Patel Institute of Management Ganpat University



Certificate of Completion of Value Added Course 2018-19 This is to certify that AJAY BERVA the bona fide student of the Ganpat University- V. M. Patel Institute of Management has successfully completed the course on Fundamentals of Digital Media Marketing for the duration of 30 hours during his/her Semester III as a part of his /her MBA program. DR. HIR EN PATE L Head (1/C)V. M. Patel Institute of Management Ganpat University



Student Notice

It is hereby informed you that Registration for Value added courses offered by the institute for the academic year 2017-18 is initiated.

Applications are invited for the below-mentioned value-added course offered by VMPIM as given below:

Course	Duration	Fees
E-Commerce	30 hours	Nil

The students of MBA Sem-IV can register for the course, and they are required to report the coordinator (Dr. Dipesh Dasani) of Value-added course up to 10.1.2018. The session would be taken by Expert. Dr. Sourbhi Chaturvedi.



Seal of the Institute

(Dr. Hiren J Patel)

WC. Head V.M.Patel Institute of Management Ganpat University,Kherva-384012 Dist.Mehsana (North Gujarat)

					GAN	PAT U	NIVERSITY	Y			
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Theor Unit 1 2 3	Unit Unit Defin enga fram Unit Inter Infra ISDN Proto Unit Secu secu in Fi	I: IN nition ging eworl II: N net au struc N, FR ocol, t III: urity I rity, I rewa	TROD of Electric k, Impace IETWC nd Intran ture, Ne AME R WAP te WAP te Ssues of Emergin Il design	UCTI etronic conic c ct of E DRK I net bas twork ELAY echnolo ECUI n web, ng clien n, Lim	ON Commerce, -commerce, NFRASTI sed E-com Access Ec (). Mobile ogy, Mobile (). Mobile ()	e, E-Con needs of e on bus RUCTU merce- I quipmen e Comm le Inform ce of Firr Security Firewalls	Content mmerce: technoo f E-Commerce, iness, E-Comm RE FOR E- C ssues, problems t's, Broadband erce: Introduction terce: Introduction nation device. ewall, compone Threats, Netwo	ology and p advantage: erce Mode OMMER(s and prosp telecommu on, Wireles ents of Fire rk Security	rospects, income s, and disadve ls. CE meets, Networn mication (AT as Application wall, Transactory, Factors to come	entives for rantages, ck CM, on etion consider	Hr 6 6 6
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and Agenda.	
Textbooks:	-
 Ravi Kalakota, Andrew Winston, "Frontiers of Electronic Commerce", Addison Wesley. 	
Reference Books:	11.5
 Pete Lohsin , John Vacca "Electronic Commerce", New Age International Goel, Ritendra "E-commerce", New Age International Laudon "E-Commerce: Rusinger Technology of the Providence of t	
 Laudon, "E-Commerce: Business, Technology, Society", Pearson Education 	



GANPAT UNIVERSITY- FACULTY OF MANAGEMENT STUDIES

V.M. PATEL INSTITUTE OF MANAGEMENT

Date	Time
13/01/2018	10.00am-12.00 pm 1.00pm-4.00pm
27/01/2018	10.00am-12.00 pm 1.00pm-4.00pm
10/02/2018	10.00am-12.00 pm 1.00pm-4.00pm
24/02/2018	10.00am-12.00 pm 1.00pm-4.00pm
10/03/2018	10.00am-12.00 pm 1.00pm-4.00pm
24/03/2018	10.00am-12.00 pm 1.00pm-4.00pm

Timetable- E-Commerce



GANPAT UNIVERSITY- FACULTY OF MANAGEMENT STUDIES

V.M. PATEL INSTITUTE OF MANAGEMENT

Date: 26/03/2018

Value- added course Summary Report

Faculty of Management Studies has organized value added course on "E-Commerce" for the students of V.M. Patel Institute of Management, FMS, Ganpat University during the academic year 2017-18.

Year	Semester	Value-added Course	No of Students participated
2017-18	IV	E-Commerce	65

The Value-added course was very knowledgeable, informative and related to the managerial function. Overall, the value-added course was highly appreciated by the students.

Ganpat Vidy the Institute Seal

(Dr. Hiren J Patel)

V.M.Patel Institute of Management Ganpat University,Kherva-384012 Dist.Mehsana (North Gujarat)

S. No	Name	Enrolment	Allocated
1	AGRAWAL SANGINI GA IENDRA	16044311001	E-Commerce
2	ANII KUMAR	16044311002	E-Commerce
3	BAROT AVANI PRAMODKUMAR	16044311003	E-Commerce
4	CHAUDHARY DAMAYANTIBEN	16044311005	
	AMBABHAI	10044511005	E-Commerce
5	CHAUHAN RAVIKUMAR JIVANLAL	16044311006	E-Commerce
6	CHOKSI KRIMABEN ANILKUMAR	16044311008	E-Commerce
7	DAVE KAUSHABEN MAYANKKUMAR	16044311009	E-Commerce
8	DESAI SAHDEVBHAI SAKKARBHAI	16044311010	E-Commerce
9	GAJJAR MIRAL NITINBHAI	16044311011	E-Commerce
10	GHUNJARIYA GOPIBEN HARESHKUMAR	16044311012	E-Commerce
11	GOLANI URVASHIBEN HARESHKUMAR	16044311013	E-Commerce
12	GURJAR PARESHKUMAR NARANBHAI	16044311015	E-Commerce
13	ISARANI RAVINA BALCHAND	16044311016	E-Commerce
14	JOSHI BINAL BHANUBHAI	16044311018	E-Commerce
15	JPWALA RIYANKA JITENDRAKUMAR	16044311020	E-Commerce
16	KACHHATIYA BHAVIK MAHESHBHAI	16044311021	E-Commerce
17	KHANUSIYA AKILBHAI SALIMBHAI	16044311024	E-Commerce
18	KHATRI KAPILKUMAR SUNILBHAI	16044311025	E-Commerce
19	KRIPLANI TWINKLE MAHESHKUMAR	16044311026	E-Commerce
20	MAKWANA NILESH NARESHBHAI	16044311027	E-Commerce
21	MODH AKASH KIRITKUMAR	16044311030	E-Commerce
22	MODHAVADIYA DILIP KARSHANBHAI	16044311031	E-Commerce
23	MODI AYAN SANJAYBHAI	16044311032	E-Commerce
24	NAYAK MILANKUMAR HASHMUKHBHAI	16044311034	E-Commerce
25	NAYI PRADIPKUMAR MAHESHKUMAR	16044311035	E-Commerce
26	OZA RAJATKUMAR NAVINBHAI	16044311036	E-Commerce
27	OZA RUCHITKUMAR NAVINBHAI	16044311037	E-Commerce
28	PABARI AKASH PARESHBHAI	16044311038	E-Commerce
29	PANCHAL KISHAN PARESHBHAI	16044311040	E-Commerce
30	PANCHAL MAHARSHI ARVINDBHAI	16044311041	E-Commerce
31	PANCHAL RUTVESH MAHESHBHAI	16044311042	E-Commerce
32	PARMAR CHANDRAKANT VIRABHAI	16044311043	E-Commerce
33	PATEL JAYKUMAR VITHTHALBHAI	16044311044	E-Commerce
34	PATEL PIYUSHKUMAR GHANSHYAMBHAI	16044311045	E-Commerce
35	PATEL APURV VISHNUBHAI	16044311046	E-Commerce
36	PATEL AVANIBEN JITENDRAKUMAR	16044311048	E-Commerce
37	PATEL HAPPY CHANDRAKANT	16044311051	E-Commerce

Value Added Course opted by MBA Sem-IV Students for the year 2017-18

		1 (0 4 4 2 1 1 0 5 2	ГС
38	PATEL HARDIK ASHVINBHAI	16044311052	E-Commerce
39	PATEL HARDIKKUMAR CHHAGANBHAI	16044311053	E-Commerce
40	PATEL NIDHIBEN MUKESHKUMAR	16044311056	E-Commerce
41	PATEL PARTHKUMAR BHARATBHAI	16044311057	E-Commerce
42	PATEL PRATIKKUMAR SHAILESHBHAI	16044311058	E-Commerce
43	PATEL SAGAR ASHOKKUMAR	16044311059	E-Commerce
44	PATEL SHIVANI VIPULKUMAR	16044311060	E-Commerce
45	PATEL SWETABEN SHIVRAMBHAI	16044311061	E-Commerce
46	PATEL URVISHKUMAR NARENDRABHAI	16044311062	E-Commerce
47	PATEL VIKASKUMAR VINODKUMAR	16044311063	E-Commerce
48	PATHAN IRSHADKHAN MAHAMADKHAN	16044311064	E-Commerce
49	PRAJAPATI URVESHKUMAR MUKESHBHAI	16044311065	E-Commerce
50	RAIBHAR JIGNESH MANAGER	16044311067	E-Commerce
51	RAIPUT SATVIRSINH PREMSINH	16044311068	E-Commerce
52	RAMI KISHAN JAYESHBHAI	16044311069	E-Commerce
53	RAMI AVAT HEMANGINI YASHWANTSINH	16044311070	E-Commerce
54	SAKARIYA CHANDRESH RAMESHBHAI	16044311074	E-Commerce
55	SANGHAVI VIPASHA JIGNESHKUMAR	16044311075	E-Commerce
56	SHARMA CHIRAG HARISHKUMAR	16044311077	E-Commerce
57	SHARMA MILONI DINESHKUMAR	16044311078	E-Commerce
58	SHARMA PUNIT MANHARLAL	16044311079	E-Commerce
50	SHREEMALI PRADIPKUMAR HARESHBHAI	16044311080	E-Commerce
	SOLANKI HARSHADKUMAR	16044311081	
60	SURESHCHANDRA	10011011001	E-Commerce
61	THAKKAR AKSHAYKUMAR HIRALAL	16044311083	E-Commerce
62	THAKOR RAMAJI ISHVARJI	16044311084	E-Commerce
63	TOMAR KAJAL NARAYANSINGH	16044311085	E-Commerce
64	VALA HEMANSHIBEN SHAILESHBHAI	16044311087	E-Commerce
65	VALA RAHULBHAI RAMSIBHAI	16044311088	E-Commerce



(Dr. Hiren J Patel)

I/C. Head V.M.Patel Institute of Management Ganpat University,Kherva-384047 Dist.Mehsana (North Gujaraty

Value Added course

FACULTY OF MANAGEMENT STUDIES togramme MBA/BBA Branch/Spec. Pharmaceuticals/ International Business/Agribusiness/Start up Entrepreneurship/Logistics and Supply Chain Management/ Business Analytics semester I Version 1.0.0.0 Stective from Academic Year 2020-21 Effective for the batch Admitted in June 2020 Subject code 10S107MMB Subject Name Master Class on Marketing and Branding Level-1 Teaching scheme Examination scheme (Marks) (Per week) Lecture(DT) Practical(Lab.) Total CE SEE Total Credit 3 1 June 3 Theory 0 0 0 Hours 3 1 June 45 Practical Internations forment students practically. International Business/Agribus Unit Content Entrepreneurship/Logistics International Business/Agribus International Business/Agribus International Business/Agribus 1 Introduction: Marketing, Emerging Marketing Practices. International Business/Agribus International Business/Agribus International Business/Agribus International Business/Agribus 1 Introduction: M						GAN	PAT UN	IVERSITY	(
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Reference material is to be provided by the expert/trainer.





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Prog	ramme		MBA/BBA			Branch/Spec.			Pharmaceuticals/ Financial Serv International Business/Agribusiness/Sta Entrepreneurship/Logistics and Supply Management / Business Analytics				vicela art-up Chair
Seme	ester		1					Version		1.0.0.0			
Effect	tive fror	n Acad	demic Year		2020	-21		Effectiv	e f	or the bat	ch Admitted in	June	2020
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Prog	ramme		Entrep	reneurs	ship 101		Branch/Spec	-			
Seme	ester		Module	e-l			Version	4.			
Effec	tive fror	n Acad	demic Ye	ear	-		Effective for t	the batch Adn	nitted in	-	
Subje	ubject code 10S102 Subject Name Idea Validation Workshop										
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Pre-re	equisites					AN ALL AND					
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2	A study and con Analysis	on co sumer of Ma	nsumer behavio arket en	behavi or, Attit vironm	i or: Introdu tude and c ent, Buildi	uction m onsumer ng your	arket strategy behavior, Mai Marketing Plan	and consumer rket Segmenta	behavior,Perce ation and Positi	eption oning,	10
 Workshop On Digital Marketing: Digital Marketing Top strategies, Competitive Analysis using top tools, SEO Introduction, PPC Introduction, Social Media Introduction, Keyword Planner, Spying on Competitors Activity, Search Ads & Display Ads, How to Run Search Ads, Ad words Structure, Introduction to Quality Score and Ad rank, Targeting Methods - Search & display, Live Campaign - Search & display Campaign, Learning from Our Live Campaigns, Social media introduction, Lead gen Strategies, Funnel Introduction, Content Cycle, TOFU, MOFU, BOFU, Content Research, Content Calendar, Practical Tools, Content Tools, FBAds, Spying on FBAds/Social media Practical & Assignments 										10	



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			12.5	CEN	NTRE FOR I	MANAGE	MENT STUDIES	AND RESEAR	СН	
Programme Entrepreneurship 101						N	Branch/Spec	-		
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Subje	ect code 10S103 Subject Name Financial Accounting and Analysis and Perspective of Rusiness Disc.			-						
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<u>CENTRE FOR MANAGEMENT STUDIES AND RESEARCH</u> <u>CED-ENTRERENEURSHIP DEVELOPMENT PROGRAM MODULE III- 10S104</u>

Sr.No	Day	Subject List
1	Day 1	Who Is An Entrepreneur And Micro lab And Discussion
2	Day 2	Important Aspects In Business Opportunity Selection &Business opportunity Functional
3	Day 3	Experiences Sharing On Entrepreneur
4	Day4	About Entrepreneurship Development Program And About CED
5	Day 5	Support(Scheme) For Financial Institution& Loan Application And Disbursement Information
6	Day 6	Marketing Management & Whom To Contact For What?
7	Day 7	Market Research And Survey Case Study Role Playing & Project Report
8	Day 8	Business Account And Management & Financial Management
9	Day 9	General Management & Working Capital/Fixed Capital
10	Day 10	Personal Management & Computer In Business
11	Day 11	Achievement Motivation Training
12	Day 12	Schemes Of Supporting Institutions Of Industry And Service Sector Dic
13	Day 13	Ethics And Value Of Gandhian Philosophy In Entrepreneurship
14	Day 14	Industrial Visit- Ramdev Masala Ltd
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GANPAT UNIVERSITY CENTRE FOR MANAGEMENT STUDIES AND RESEARCH A Certification course on Certified Financial Market Professional with NSE Course Code: 10S105

The objective of this short term program is to spread Financial Market Education & Financial Literacy. It aims to develop a pool of human resources having right skills & expertise to enhance financial planning and investment decisions. Following course aims to deliver Comprehensive Knowledge & Practical Skills to meet the vibrant demands of the financial sector and their by giving students to take informed financial decisions and take better investment decisions.

Unit	Particulars	Duration
UNIT 1	 Financial Modelling Introduction to Financial Statement Analysis Preparation of Financial Analysis Report Prepare Financial Statement Analyze & Forecast Revenue and Costs Valuation- Discounted Cash Flow Method (DCF), Others Prepare Presentation Sheet, Company Overview, Sector Overview 	10 Hours
UNIT 2	 Equity Analysis & Portfolio Management Introduction to Analysis in Financial Markets Technical Analysis – Charts, Trends & Patterns Fundamental Indicators Study Quantitative Techniques Portfolio Management Financial Planning & Investment Analysis 	5 Hours
UNIT 3	 Derivatives in Financial Markets Introduction & Application of Derivatives Trading Futures & Options Equity Futures Fundamentals & Investment 	5 Hours
UNIT 4	 Financial Markets Advanced Financial Markets Products & Institutions Understanding Debts Financial Statements Analysis & Projections International Markets 	5 Hours
UNIT 5	 Practical Training on selecting a Stock through DCF Analysis Selection of a Public Ltd. Company DCF Analysis 	5 Hours



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GANPAT UNIVERSITY CENTRE FOR MANAGEMENT STUDIES AND RESERACH CERTIFIED Lean Six-Sigma professional (Green Belt) Course Code: 10S106

Objectives:

- 1. To make students conscious about importance of quality and quality management
- 2. To enable students to know thoroughly all the concepts of six sigma and green belttools.
- 3. To impart knowledge on students how six-sigma is applied in manufacturing/serviceorganization.
- 4. To make students understand the role and importance of problems solving research in organization for improving quality

COURSE COVERAGE

The course covers six-sigma green belt tools and lean methodologies with problem solving approach for quality improvement

LEARNING OUTCOME OF THE COURSE

- After studying this course, student will be able to: Understand meaning and importance of quality and quality management.
 - . Understand six-sigma tools and its implementation.
 - Know how six sigma belts works and benefits reaped out of it.

CONTENT (UNITS)

Unit No	Topic Name	Total No
		Hours
01	Introduction: Meaning and introduction to lean thinking and six sigma concepts, Similarities and differences, History and Evolution of Lean and Six Sigma, Six Sigma approaches (DMAIC and DMADV), Phases of six sigma	06
02	Basic Concepts and Terminologies: Six-sigma team formation (various belts & their role), Push-pull system, COPQ- Cost of Poor Quality, Voice of customer, Quality Function Deployment, CTQ- Critical to Quality factors, Chance and Assignable cause of quality problems, First Yield and First Pass Yield, Acceptant Sampling, Process capability analysis	07
03	Lean Six Sigma Green Belt Tools: Introduction to Theory of constraints, Value stream mapping, Poka-Yoke, 5S, Total productive maintenance, FMEA & FMECA, KANBAN, KAIZEN, Statistical Quality/Process control (X-bar & R-chart, C-chart, P-chart, nP chart), Regression analysis, hypothesis testing, six-hat thinking, SMED- Single Minute Exchange of Dies	17
04	Six Sigma Methodology: Define, Measure, Analyze, Improve, Control	03
05	Six Sigma projects and benefits: Identifying Lean Six Sigma projects, Planning for implementation, Selection	De 03

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of tools and techniques for each phase, Measuring the benefits of Lean-Six sigma, Limitation of Six sigma	
Total Hours	36



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GANPAT UNIVERSITY CENTRE FOR MANAGEMENT STUDIES AND RESEARCH NPTEL MODULE ON SPEAKING EFFECTIVELY Course Code: 10S101

Course Code & Name: Speaking Effectively

COURSE OUTLINE:

This course aims to introduce learners to the dynamics of effective spoken communication by establishing speaking as an autonomous medium with a distinctive vocabulary, syntax, structure, style and register. It will enable learners to participate in one to one interactions, in small groups and before a group. Learners are expected to master the fundamentals of speaking such as vocabulary, body language, pronunciation and basic conversation skills before they move on to more advanced activities such as appearing in interviews, making formal presentations and participating in meetings.

COURSE STRUCTURE:

Module	Title						
1	Introduction, Verbal Communication						
2	Nonverbal Communication						
3	Phonetics						
4	Voice and delivery	ert blegt af tentris i finansen skister om serer					
5	Basic conversational skills						
6	Appearing in interviews and taking interviews						
7	Making and assessing presentations						
8	Group discussions and meetings						
REFERENC	ES:						

 Andersen, Peter A. Nonverbal Communication: Forms and Functions. Mountain View, CA: Mayfield, 1999.

 Connor, J.D. Better English Pronunciation. Cambridge: Cambridge University Press.2013.

 Bradbury, Andrew. Successful Presentation Skills: Build Confidence; Understand Body Language; Use Visual Aids Effectively. London: Kogan Page 2010.



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GANPAT UNIVERSITY											
FACULTY OF MANAGEMENT STUDIES											
Programme BBA (General) Branch/Spec											
Semest	ter			cherui	/		Version	1.0.0.0			
Effective from Academic Year			2018-19	1756	Effective for	the batch Ac	lmitted in	June 2	015		
Subject	t code		IOS102		Subject N	lame	MARKETING	OF FINANCI	AL PRODUCT		
Teachi	ng sche	eme	AND ALL	13376		The second second	Examination	scheme (Ma	irks)		
(Per we	eek)	Lectu	ure(DT)	Pract	ical(Lab.)	Total		CE	SEE	Total	
		L	TU	Р	TW						
Credit							Theory				
Hours			*				Practical				
Pre-rec	quisite	s:		(Annually)							107.20
Course Objectives: The basic objective of this course is to acquaint the students about the various types of financial services and how these are to be marketed. It will also develop an understanding among the students regarding recent developments in Marketing of Financial Services.									nding		
Theory	/ svllab	us	1		NA STATE						
Unit						(Content				Hrs
1 An Overview of Bank Marketing & Bank Distribution Concept of Marketing & Bank Marketing, Various Marketing Concepts, Difference between Product and Services, Concept of Services Marketing Mix, Channels of									6		
 Distributions for Banks, Difference between internet banking and online bunking. Banking Consumer Behaviour and Its Models Factors influencing consumer behaviour in Banking, Concepts of Consumer Behaviour, Behavioural Models for Analysing the Buyers. The Pavlovian Learning Model. The 								6			
 Banking Consumer's Market Segmentation and Marketing Research Introduction, Characteristic/ Types of Consumer Segments, Application of Segmentation to Banking Services. Definition of Marketing Research, The Marketing 								6			
4	4 Próduct/Service Strategy Nature of Products, Elements of Product Mix, Product life cycle, Using PLC to manage Marketing Banking Products, New Product Development, Role of Brand in Bank									6	
5	Prici Prici conc	ng Str ng ar epts	Marketing. Pricing Strategy and its application in Banking Pricing and Profitability, Elasticity of Demand, Pricing Methods/Strategies, Pricing concepts in Banking, Trading Bank Pricing Approaches.								

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FACULTY OF Management studies											
Programme BBA (General)							Branch/Spec.				
Semes	ter				11		Version	1.0.0.0			
Effectiv	ve fron	n Acad	lemic Ye	ar	2016-203	17	Effective for	Admitted	d in	June 2	2015
Subjec	t code		IOS101		Subject N	lame	BASICS OF FI	NANCIA	L MARKETS	A Start Start	
Teachi	ng sch	eme					Examination	scheme	(Marks)		
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Credit							Theory				
Hours							Practical				
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Course	e Objec	tives:		Ser Martin		MAC II					
•	To in	npart l	knowled	ge abc	ut differen	t types o	of financial ma	rkets and	I how they ope	erate.	
•	To m	ake st	udents a	acquai	nted about	operati	ons of primary	and seco	ondary market	s.	
•	To u	nderst	and deri	ivative	operations	5					
•	To de	evelop	skills of	analy	zing financi	al stater	ment and its in	terpretat	tion.		
Theory	y syllab	ous									11.00
Unit		100				(Content	Sell Care	Sec. 198 - 1 16.00		Hrs
1	Mark	ets an	d Finan	cial Ins	truments:	Types o	f Markets: Equ	ity, Deb	t, Derivatives,	Commodities;	6
	Mear	ning ar	nd featu	res of	private, pul	blic com	panies; Types	of investi	nent avenues.	hillity to issue	7
2	Prima	ary Ma	arket : Ir	nitial P	ublic Offer	(IPO); B	ook Building tr	irougn O	latmont of Sh	pros: Basis of	'
	secur	ities;	Pricing	of Issu	es; Fixed v	ersus B	ook Building I	ssues; Ai	iotment of sh	ares, Dasis of	
	Alloti	ment;	Private	Placen	nent.		C. C	nd Even	ango Board of	India (SEBI).	7
3	Seco	ndary	Market	: Rol	e and fund	ctions o	r Securities a	na exclu	ange board of	Mombershin:	1
	Depo	sitorie	es; Stock	excha	nges; Inter	mediari	es in the india	n SLOCK II	atostion fund	(IDE): and Do's	
100	Tradi	ng; Cl	earing a	nd sett	lement and	d risk ma	anagement; Inv	vestor pr	otection fund	(IFF), and DOS	
	and [Don'ts	for inve	stors,	Equity and	debt inv	estment.	odity ov	changes: Com	modity versus	6
4	Deriv finan	atives	: Types erivative	of de s.	rivatives; C	ommod	ity and comm	ourry ex	changes, com	mounty versus	0
5	Finar	icial St	tatemen	t Anal	sis : Balan	ce sheet	; Profit & loss	account;	Stock market	related ratios;	6
	Simp	le ana	lysis bet	fore in	vesting in	the shar	es; understan	ding ann	ual report; D r	rector's report	
	etc.		and the state	1.1.1.	A CONTRACT	- Million		Ly Cal Grant			1

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Center For Management Studies

GANPAT UNIVERSITY											
FACULTY OF MANAGEMENT STUDIES											
Progra	mme					-5.5	Branch/Spec.				
Semes	ter						Version	1.0.0.0			
Effecti	ve fron	n Acad	demic Ye	ar	2015-16		Effective for	the batch Ac	imitted in		
Subjec	t code		IIIOS10)1	Subject N	lame	EVENT MAN	AGEMENT			
Teachi	ing sch	eme					Examination	scheme (Ma	irks)		
(Per w	reek)	Lectu	ure(DT)	Prac	tical(Lab.)	Total		CE	SEE	Total	
		L	TU	Р	TW						
Credit						-	Theory				
Hours							Practical				
Pre-re	quisite	s:					for the second of the	and a second second			(BU)
excel Theory	in the y syllab	field us	of Even	t Man	agement.				E ALLE		
Unit						(Content				Hrs
1	Intro Defir Conc	duction nitions ept, F	on to Eve s of Eve Role of I	ent M ent ma Event	lanagemen anagement Manageme	t, The I , Impor ent Con	Emergence of tance of Even panies, The S	f Events Ind nt Managem Scope Of Ev	ustry, types (nent, Event D rent Manager	Of Events, Design and nent	6
2	Why Scop Syste	Eve e of ems, E	nt Mar the E Establish	agem Event, ing P	ent, Requ Decision- olicies & P	irement makers rocedu	t of Event , Technical S res.	Manager, A Staff, Devel	Analyzing th oping Recor	ne events, d-Keeping	7
3	3 Préparing a Planning Schedule, Organizing Tasks, Assigning Responsibility, and Communicating, Using the Schedule Properly, The Budget, Overall Planning tips, Checklists, Expert Resources, Computer Software Required.								7		
4	Introduction to Event Marketing, Event Promotion, Promotional Strategies, and five P's of Event Marketing: Product, promotion, price, public relations, and place. Internal versus External Event, marketing, Event Sponsorship, Internet Event Marketing, let us sum up: lesson end activity, keywords, and questions for discussion								8		
5	Who conte Introd Work	are nt ductionsheet	the peo Guidel on, Feo ts.	ople (lines, es &	on the Ev Participa Honorari	rent, Lo nt Tip ums, E	ocating Peop s, Reference Expense Rein	ble, Clarifyi e Checks, bursement,	ng Roles, I Requiremen Travel Arra	Developing nt Forms, angements,	8

Cent auri Cenjer For Management Studies WL225CEN 50 phis

GANPAT UNIVERSITY											
FACULTY OF MANAGEMENT STUDIES											
Programme Branch/Spec										A. S. S. S.	
Semest	ter			1. 1.			Version	1.0.0.0			
Effectiv	ve fror	n Acad	demic Ye	ar	2015-16		Effective for	the batch Adm	itted in		
Subject	t code	2	IVOS10)1	Subject N	lame	FILM AND TE	LEVISION PRO	DUCTION		
Teachi	ng sch	eme					Examination	scheme (Mark	s)		
(Per we	eek)	Lectu	ure(DT)	Pract	ical(Lab.)	Total		CE	SEE	Total	
		L	TU	Р	TW						1
Credit	•						Theory				Sec.
Hours							Practical				
Pre-rec	quisite	s:							1. S. S. S. Alexand		
Course Objectives: The course provides with a wide range of professional skills from pre to post production including working process of production house, artiste mgmt & production television programming and management, Sound for TV and film: dubbing and on-location sound, editing and vex direction, Artiste management and studio production.									ction, g and artiste		
Theory syllabus											
Unit Content								Hrs			
1	Unit Content 1 Various Genres of Film and Television Programmes, Preproduction Tech: Introduction to Video technology and terminologies, Film Genres, Television Genres & Film Aesthetics. Visualization, Storyboarding, Fundamentals of SLR Camera, Composition, Editing Aesthetics 1									16	

2 Jobs involved in a Film Production house, Process involved in Production of a Film, Marketing and Distribution of a Film. Direction techniques, Managing Artistes and the products that make up the artiste identity. Overview of a Television Station, Managing a Television station and careers involved, Programming TV shows, Advertisement Sales and Revenue.

Center For Management Studies





GANPAT UNIVERSITY V. M. Patel College of Management Studies Ganpat Vidhyanagar 382712 Dist: Mehsana, Gujarat, India. Phone: + 91-2762-289094, <u>www.vmpcms.ac.in</u>

Notice

Date: 11/1/2022

Subject of Notice: Value added Course on Employability Enhancement Skills

In this academic season, Faculty of Management Studies and Faculty of Social Sciences and Humanities - VMPCMS, Ganpat University offers Six - Days Value added Course on Employability Enhancement Skills for BBA (General / FS / MM) Semester 6 students which includes 30 hours training, assignments and activities to develop the types of behaviours, attitudes and skills that employers require from the day first in an organization.

Total 30 hours course will be completed offline. Session will be conducted from 17th to 24nd January 2022. You can contact Prof. Haresh Oza, Coordinator, for detailed information of the course and Certificate.

Haren

Prof. Haresh Oza Coordinator GUNI: VMPCMS

A.K. Pagikh

Dr. Abhishek Parikh Principal GUNI: VMPCMS

GANPAT UNIVERSITY V. M. PATEL COLLEGE OF MANAGEMENT STUDIES

Value added Course on Employability Enhancement Skills 2021-2022

Time Table

Day &	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Monday			
Date	17/1/2022	18/1/2022	19/1/2022	20/1/2022	21/1/2022	22/1/2022	24/1/2022			
	9:20 am to	9:20 am to	9:20 am to	9:20 am to	9:20 am to	9:20 am to	9:20 am to			
	10:50 am	10:50 am	10:50 am	10:50 am	10:50 am	10:50 am	10:50 am			
Je	11:00 am to	11:00 am to	11:00 am to	11:00 am to	11:00 am to	11:00 am to	11:00 am to			
	12:30 pm	12:30 pm	12:30 pm	12:30 pm	12:30 pm	12:30 pm	12:30 pm			
	Break									
Ţ	1:30 pm to	1:30 pm to	1:30 pm to	1:30 pm to 2:30	1:30 pm to 2:30	1:30 pm to 2:30	1:30 pm to			
	2:30 pm	2:30 pm	2:30 pm	pm	pm	pm	2:30 pm			
	2:40 pm to	2:40 pm to	2:40 pm to	2:40 pm to 3:40	2:40 pm to 3:40	2:40 pm to 3:40	2:40 pm to			
	3:40 pm	3:40 pm	3:40 pm	pm	pm	pm	3:40 pm			

Course Code:501EES Course Name: Employability Enhancement Skills

COURSE OUTLINE:

Employability skills are foundational skills which are essential for gaining, sustaining and being successful in a job.

This course aims at enhancing employability skills of the students. It intends to inculcate the skills and attitudes that allow employees to get along with their co-workers, make important work-related decisions and become strong team members.

This course is meant to guide students that employability skills are transferable; they go onchanging as per the demand of the world of work and learning these skills are essential in any employment scenario.

Module	Course Content	No. hours
1.	Goal setting, Time management, Interview skills	5 hours
2.	Reading Resources/ Activities/ Assessment/Assignments	5 hours
3.	Negotiation Skills, Critical thinking and logical, thinking and reasoning skills	5 hours
4.	Reading Resources/Activities/Assessment/Assignments	5 hours
5.	Presentation skills, Etiquette and grooming, group discussion and Key attitudes of life	5 hours
6.	Reading Resources/Activities/Assessment/Assignments	5 hours



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Notice

Date: 11/1/2022

Subject of Notice: Value added Course on English Language

In this academic season, Faculty of Management Studies and Faculty of Social Sciences and Humanities - VMPCMS, Ganpat University offers Value added Course on English Language for BBA (FS/MM/General) and B.Com Semester 2 students which includes 30 hours training, assignments and activities to improve English language.

Total 30 hours course will be conduct offline at New Building. Session will be conducted from 17th to 24th January 2022. You can contact Prof. Haresh Oza, Coordinator, for detailed information of the course and Certificate.

Jaren

Prof. Haresh Oza Coordinator GUNI: VMPCMS

A.K. Pagikh

Dr. Abhishek Parikh Principal GUNI: VMPCMS
V. M. PATEL COLLEGE OF MANAGEMENT STUDIES

Value added Course on English Language 2021-2022

Time Table

Day &	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Monday	
Date	17/1/2022	18/1/2022	19/1/2022	20/1/2022	21/1/2022	22/1/2022	24/1/2022	
	9:20 am to	9:20 am to	9:20 am to	9:20 am to	9:20 am to	9:20 am to	9:20 am to	
	10:50 am	10:50 am	10:50 am	10:50 am	10:50 am	10:50 am	10:50 am	
	11:00 am to	11:00 am to	11:00 am to	11:00 am to	11:00 am to	11:00 am to	11:00 am to	
JE	12:30 pm	12:30 pm	12:30 pm	12:30 pm	12:30 pm	12:30 pm	12:30 pm	
2	Break							
	1:30 pm to	1:30 pm to	1:30 pm to	1:30 pm to 2:30	1:30 pm to 2:30	1:30 pm to 2:30	1:30 pm to	
L '	2:30 pm	2:30 pm	2:30 pm	pm	pm	pm	2:30 pm	
	2:40 pm to	2:40 pm to	2:40 pm to	2:40 pm to 3:40	2:40 pm to 3:40	2:40 pm to 3:40	2:40 pm to	
	3:40 pm	3:40 pm	3:40 pm	pm	pm	pm	3:40 pm	

	Course Code: CEU01ENL			
	Course Name: English Language			
The Cou	rse aims at preparing students to cope up with university education being imparted in			
English a	as medium of instruction. It specifically aims at bridging the gap between school and			
university	y education to reinforce the language skills and to support independent learning.			
	Course Structure:			
Module	Title			
1	Vocabulary Building: Synonyms-antonyms, Words often confused word-analogies,			
1.	one word substitutes, prefix-suffix, idioms and phrases.			
	Grammar and Language Components: Parts of speech, capitalization and punctuation,			
2	Sentence formation and sentence transformation (affirmative, negative and			
۷.	interrogative), Sentence types (function and structure based), Concord (subject-verb			
	agreement) and Tenses.			
	Listening Skills: Types of Listening, listening to announcements of railway station,			
3.	bus station, airport, sports announcement, Listening motivational speeches, lectures,			
	spiritual talks, media interviews, business talks and presentations (TED Talks)			
	Speaking Skills and Body Language: Paralanguage, proxemics, Everyday			
4	conversation like, Self-introduction, Introducing painter and other in the social or			
4. formal gathering, asking for and giving information, requesting and res				
	requests, congratulating people and telephonic communication.			
	Reading Skills: Identifying main idea, Extensive and intensive reading using			
5.	academic and non-academic texts, Reading of newspaper articles, magazines, stories			
	etc.			
6.	Writing Skills: prep ring invitation cards, congratulation notes, Paragraph writing,			
	Drafting of formal and informal letters, essay writing.			
REFERI	ENCE:			
• M. A	Ashraf Rizvi, Effective Technical Communication, Mc Graw Hill Education(India)			
Priva	te Limited: New Delhi 2015			
Raym	ond Murphy, Essential English Grammar, Cam bridge University Press 2015			
Onlin	e resources: You Tube - Daily Video Vocabulary, Vocab 24, TED Lectures,			
Inspir	rational Speeches/ Addresses of success people, Parliamentary Speeches, interviews,			
various internet channel devoted to learning and improving communication English				



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Notice

Date: 11/1/2022

Subject of Notice: Value added Course on Entrepreneurship Development & Start Up

In this academic season, Faculty of Management Studies and Faculty of Social Sciences and Humanities - VMPCMS, Ganpat University offers Six - Days Value added Course on Entrepreneurship Development & Start Up for M.Com Semester 2 students, which includes 30 hours training, assignments and activities to develop the Entrepreneurship Development and Start-Up that require to develop business.

Total 30 hours course will be completed online. Session will be conducted from 17th to 24th January 2022. You can contact Prof. Haresh Oza, Coordinator, for detailed information of the course and Certificate.

Haren

Prof. Haresh Oza Coordinator GUNI: VMPCMS

A.K. Pagikh

Dr. Abhishek Parikh Principal GUNI: VMPCMS

Value added Course on Entrepreneurship Development & Start Up 2021-2022

Day &	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Monday
Date	17/1/2022	18/1/2022	19/1/2022	20/1/2022	21/1/2022	22/1/2022	24/1/2022
	9:20 am to	9:20 am to	9:20 am to	9:20 am to	9:20 am to	9:20 am to	9:20 am to
	10:50 am	10:50 am	10:50 am	10:50 am	10:50 am	10:50 am	10:50 am
	11:00 am to	11:00 am to	11:00 am to	11:00 am to	11:00 am to	11:00 am to	11:00 am to
me	12:30 pm	12:30 pm	12:30 pm	12:30 pm	12:30 pm	12:30 pm	12:30 pm
	Break						
	1:30 pm to	1:30 pm to	1:30 pm to	1:30 pm to 2:30	1:30 pm to 2:30	1:30 pm to 2:30	1:30 pm to
L '	2:30 pm	2:30 pm	2:30 pm	pm	pm	pm	2:30 pm
	2:40 pm to	2:40 pm to	2:40 pm to	2:40 pm to 3:40	2:40 pm to 3:40	2:40 pm to 3:40	2:40 pm to
	3:40 pm	3:40 pm	3:40 pm	pm	pm	pm	3:40 pm

Time Table

Course Code: CEU02EDS Course Name: Entrepreneurship Development and Start-Up

Course Outline: The course titled Entrepreneurship and Start up, is designed is to give in-depth understanding on various aspects of innovation, creativity, evolving business models, incubation and entrepreneurship. The course also includes sessions on blue ocean strategy and technology incubation which are proving as game changer in todays' competitive scenario.

The course is a blend of theory and practice therefore this course does not require any prerequisite and will be useful to understand innovation and its applications in different spheres of development and growth.

	Course Structure:
Module	Title
1	Analyzing the Current Business Scenario, Innovation and Creativity- An Introduction,
1.	Innovation in Current Environment, Types of Innovation, School of Innovation.
2	Challenges of Innovation, Steps of Innovation Management, Idea Management
۷.	System, Divergent Vs. Convergent Thinking, Levers of Idea Management
2	Experimentation in Innovation Management, Idea Championship, Participation for
5.	Innovation, Co-creation for Innovation, Proto typing to Incubation.
1	What is a Business Model ,Who is an Entrepreneur ,Social Entrepreneurship Blue
4.	Ocean Strategy-I, Blue Ocean Strategy-II
	Marketing of Innovation, Technology Innovation Process, Technological Innovation
5.	Management Planning, Technological Innovation Management Strategies, Technology
	Forecasting
	Sustainability Innovation and Entrepreneurship, Types of Sustainable
6	Entrepreneurship, Conditions for Sustainable Innovation, strategic involvement in
0.	sustainable development, Exploration of business models for material efficiency
	services.
7	Management of Innovation, creation of IPR, Management of Innovation, creation of
7.	IPR, Types of IPR, Patents in India, Copyrights and other important IP
	Business Models and value proposition, Business Model Failure: Reasons and
8.	Remedies Incubators : Business vs. Technology, managing Investor for Innovation,
	Future markets and Innovation needs for India.
REFERI	ENCE:
8 Step	ps to Innovation: Going From Jugaad To Excellence – Book by Rishikesha T. Krishnan
and V	'inay Dabholkar
• Innov	ation and Entrepreneurship Book by Peter Druker
	In a

• HBS series on Innovation and Entrepreneurship



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Notice

Date: 13/1/2021

Subject of Notice: Value added Course on Employability Enhancement Skills

In this academic season, Faculty of Management Studies and Faculty of Social Sciences and Humanities - VMPCMS, Ganpat University offers Value added Course on Employability Enhancement Skills for BBA General and B.Com Semester 6 students which includes 30 hours training, assignments and activities to develop the types of behaviours, attitudes and skills that employers require from the day first in an organization.

Total 30 hours course will be completed online. Session will be conducted from 18th to 25th January 2021. You can contact Dr. Usha Kaushik, Coordinator, for detailed information of the course and Certificate.

Heushik

Dr. Usha Kaushik Coordinator GUNI: VMPCMS

A.K. Pagikh

Dr. Abhishek Parikh Principal GUNI: VMPCMS

Value added Course on Employability Enhancement Skills 2020-2021

Time Table

Day &	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Monday
Date	18/1/2021	19/1/2021	20/1/2021	21/1/2021	22/1/2021	23/1/2021	25/1/2021
	9:20 am to 10:50	9:20 am to 10:50	9:20 am to 10:50	9:20 am to	9:20 am to	9:20 am to	9:20 am to
	am	am	am	10:50 am	10:50 am	10:50 am	10:50 am
	11:00 am to 12:30	11:00 am to 12:30	11:00 am to 12:30	11:00 am to	11:00 am to	11:00 am to	11:00 am to
e	pm	pm	pm	12:30 pm	12:30 pm	12:30 pm	12:30 pm
in,				Break			
L	1:30 pm to 2:30 pm	1:30 pm to 2:30	1:30 pm to 2:30	1:30 pm to 2:30	1:30 pm to 2:30	1:30 pm to 2:30	1:30 pm to
		pm	pm	pm	pm	pm	2:30 pm
	2:40 pm to 3:40 pm	2:40 pm to 3:40	2:40 pm to 3:40	2:40 pm to 3:40	2:40 pm to 3:40	2:40 pm to 3:40	2:40 pm to
		pm	pm	pm	pm	pm	3:40 pm

Course Code:501EES Course Name: Employability Enhancement Skills

COURSE OUTLINE:

Employability skills are foundational skills which are essential for gaining, sustaining and being successful in a job.

This course aims at enhancing employability skills of the students. It intends to inculcate the skills and attitudes that allow employees to get along with their co-workers, make important work-related decisions and become strong team members.

This course is meant to guide students that employability skills are transferable; they go onchanging as per the demand of the world of work and learning these skills are essential in any employment scenario.

Module	Course Content	No. hours
1.	Goal setting, Time management, Interview skills	5 hours
2.	Reading Resources/ Activities/ Assessment/Assignments	5 hours
3.	Negotiation Skills, Critical thinking and logical, thinking and reasoning skills	5 hours
4.	Reading Resources/Activities/Assessment/Assignments	5 hours
5.	Presentation skills, Etiquette and grooming, group discussion and Key attitudes of life	5 hours
6.	Reading Resources/Activities/Assessment/Assignments	5 hours



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Notice

Date: 13/1/2021

Subject of Notice: Value added Course on English Language

In this academic season, Faculty of Management Studies and Faculty of Social Sciences and Humanities - VMPCMS, Ganpat University offers Value added Course on English Language for BBA (FS/MM/General) and B.Com Semester 2 students which includes 30 hours training, assignments and activities to improve English language.

Total 30 hours course will be completed online. Session will be conducted from 18th to 25th January 2021. You can contact Dr. Usha Kaushik, Coordinator, for detailed information of the course and Certificate.

Heusfield

Dr. Usha Kaushik Coordinator GUNI: VMPCMS

A.K. Pasikh

Dr. Abhishek Parikh Principal GUNI: VMPCMS

V. M. PATEL COLLEGE OF MANAGEMENT STUDIES

Value added Course on English Language 2020-2021

Time Table

Day &	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Monday
Date	18/1/2021	19/1/2021	20/1/2021	21/1/2021	22/1/2021	23/1/2021	25/1/2021
	9:20 am to	9:20 am to	9:20 am to	9:20 am to	9:20 am to	9:20 am to	9:20 am to
	10:50 am	10:50 am	10:50 am	10:50 am	10:50 am	10:50 am	10:50 am
	11:00 am to	11:00 am to	11:00 am to	11:00 am to	11:00 am to	11:00 am to	11:00 am to
me	12:30 pm	12:30 pm	12:30 pm	12:30 pm	12:30 pm	12:30 pm	12:30 pm
	Break						
	1:30 pm to	1:30 pm to	1:30 pm to	1:30 pm to 2:30	1:30 pm to 2:30	1:30 pm to 2:30	1:30 pm to
L '	2:30 pm	2:30 pm	2:30 pm	pm	pm	pm	2:30 pm
	2:40 pm to	2:40 pm to	2:40 pm to	2:40 pm to 3:40	2:40 pm to 3:40	2:40 pm to 3:40	2:40 pm to
	3:40 pm	3:40 pm	3:40 pm	pm	pm	pm	3:40 pm

	Course Code: CEU01ENL			
	Course Name: English Language			
The Cou	rse aims at preparing students to cope up with university education being imparted in			
English a	as medium of instruction. It specifically aims at bridging the gap between school and			
university	y education to reinforce the language skills and to support independent learning.			
•	Course Structure:			
Module	Title			
1	Vocabulary Building: Synonyms-antonyms, Words often confused word-analogies,			
1.	one word substitutes, prefix-suffix, idioms and phrases.			
	Grammar and Language Components: Parts of speech, capitalization and punctuation,			
2	Sentence formation and sentence transformation (affirmative, negative and			
۷.	interrogative), Sentence types (function and structure based), Concord (subject-verb			
	agreement) and Tenses.			
	Listening Skills: Types of Listening, listening to announcements of railway station,			
3.	bus station, airport, sports announcement, Listening motivational speeches, lectures,			
	spiritual talks, media interviews, business talks and presentations (TED Talks)			
	Speaking Skills and Body Language: Paralanguage, proxemics, Everyday			
4	conversation like, Self-introduction, Introducing painter and other in the social or			
4. formal gathering, asking for and giving information, requesting and res				
	requests, congratulating people and telephonic communication.			
	Reading Skills: Identifying main idea, Extensive and intensive reading using			
5.	academic and non-academic texts, Reading of newspaper articles, magazines, stories			
	etc.			
6.	Writing Skills: prep ring invitation cards, congratulation notes, Paragraph writing,			
	Drafting of formal and informal letters, essay writing.			
REFERI	ENCE:			
• M. A	Ashraf Rizvi, Effective Technical Communication, Mc Graw Hill Education(India)			
Priva	te Limited: New Delhi 2015			
Raym	ond Murphy, Essential English Grammar, Cam bridge University Press 2015			
Onlin	e resources: You Tube - Daily Video Vocabulary, Vocab 24, TED Lectures,			
Inspir	rational Speeches/ Addresses of success people, Parliamentary Speeches, interviews,			
various internet channel devoted to learning and improving communication English				

Date : 2/01/2020

Notice

Subject: Regarding Value Added Courses

It is hereby informed to all the students that for academic year 2019-20, V. M. Patel College of Management Studies has taken initiative of offering Value Added Course of holistic development of Students. It is also at assisting students in their long term growth. Value Added Courses will serve as a bridge to fill the gap between formal education and Corporate demands.

All the students of BBA (General/FS/MM) / B.Com / M.Com Semester 2, 4 and 6 are required to take below given Value Added Course in a year:

Sr. No.	Class & Semester	Course Name
1.	BBA (General/FS/MM) Sem. 2	English Language
2.	BBA (General/FS/MM) Sem. 4	Speaking Effectively
3.	BBA (General/FS/MM) Sem.6	Enhancing Soft skills and Personality
4.	B.Com Sem. 2	English Language
5.	B.Com Sem. 4	Speaking Effectively
6.	M.Com Sem. 4	Entrepreneurship Development & Start- Up

Total 30 hours course will be completed on the basis of full day sessions of the respective class. Session will be conducted from 7^{th} to 17^{th} January 2020.

You can contact Prof. Haresh P. Oza or Dr. Usha Kaushik, Coordinator, for detailed information of the course and certificate. The schedule of the sessions, venue and course contents are displayed and notice board.

Jaren

Prof. Haresh Oza Coordinator VMPCMS, GUNI



Heushik

Dr. Usha Kaushik Coordinator VMPCMS, GUNI

V. M. PATEL COLLEGE OF MANAGEMENT STUDIES

Value Added Course Schedule

Academic Year: 2019-20

Time Table for B.COM. / B.A. / M.Com. Sem. 2, 4

Day	Tuesday	Wednesday	Thursday	Friday	Thursday	Friday
Date	7/1/2020	8/1/2020	9/1/2020	10/1/2020	16/1/2020	17/1/2020
	9:15-10:15	9:15-10:15	9:15-10:15	9:15-10:15	9:15-10:15	9:15-10:15
	10:20 to 11:20					
Time	11:15 to 12:15					
	Recess	Recess	Recess	Recess	Recess	Recess
	12:45 to 1:45					
	2:50 to 3:50					

Academic Year: 2019-20

B.COM. / M.Com. Sem. 2, 4

Course Code & Name: CEU01ENL: English Language

B.Com. Sem. 2	Date	Day
	7 th January, 2020	Tuesday
	8 th January, 2020	Wednesday
Room No. 102	9 th January, 2020	Thursday
Room 102	10 th January, 2020	Friday
	16 th January, 2020	Thursday
	17th January, 2020	Friday

Course Name: Speaking Effectively

B.Com & Sem. 4	Date	Day
	7 th January, 2020	Tuesday
	8 th January, 2020	Wednesday
Room No. 103	9 th January, 2020	Thursday
Room No. 105	10 th January, 2020	Friday
	16 th January, 2020	Thursday
	17th January, 2020	Friday

Course Code & Name: CEU02EDS: Entrepreneurship Development & Start -Up

M.Com. Sem. 4	Date	Day	
	7 th January, 2020	Tuesday	
	8 th January, 2020	Wednesday	
Venue: Seminar Hall 2	9 th January, 2020	Thursday	
	10 th January, 2020	Friday	
	16 th January, 2020	Thursday	
	17th January, 2020	Friday	

Academic Year: 2019-20

BBA (Gen/FS/MM) Sem. 2, 4, 6

Course Code & Name: CEU01ENL: English Language

BBA (Gen/FS/MM) Sem. 2	Date	Day	
	7 th January, 2020	Tuesday	
	8 th January, 2020	Wednesday	
Venue: Room No. 101	9 th January, 2020	Thursday	
	10 th January, 2020	Friday	
	16 th January, 2020	Thursday	
	17th January, 2020	Friday	

Course Name: Speaking Effectively

BBA (Gen/FS/MM) Sem. 4	Date	Day	
	7 th January, 2020	Tuesday	
Venue: Room No. 104	8 th January, 2020	Wednesday	
	9 th January, 2020	Thursday	
	10 th January, 2020	Friday	
	16 th January, 2020	Thursday	
	17th January, 2020	Friday	

Course Name: Enhancing Soft Skills and Personality

BBA (Gen/FS/MM) Sem. 6	Day	Time	
	7 th January, 2020	Tuesday	
Venue: Seminar Hall 1	8 th January, 2020	Wednesday	
	9 th January, 2020	Thursday	
	10 th January, 2020	Friday	
	16 th January, 2020	Thursday	
	17th January, 2020	Friday	

Course Code: CEU01ENL				
	Course Name: English Language			
The Cour	rse aims at preparing students to cope up with university education being imparted in			
English a	is medium of instruction. It specifically aims at bridging the gap between school and			
university	y education to reinforce the language skills and to support independent learning.			
Course S	tructure:			
Module	Title			
1	Vocabulary Building: Synonyms-antonyms, Words often confused word-analogies,			
1.	one word substitutes, prefix-suffix, idioms and phrases.			
	Grammar and Language Components: Parts of speech, capitalization and punctuation,			
2	Sentence formation and sentence transformation (affirmative, negative and			
۷.	interrogative), Sentence types (function and structure based), Concord (subject-verb			
	agreement) and Tenses.			
	Listening Skills: Types of Listening, listening to announcements of railway station,			
3.	bus station, airport, sports announcement, Listening motivational speeches, lectures,			
	spiritual talks, media interviews, business talks and presentations (TED Talks)			
	Speaking Skills and Body Language: Paralanguage, proxemics, Everyday			
4	conversation like, Self-introduction, Introducing painter and other in the social or			
	formal gathering, asking for and giving information, requesting and responding to			
requests, congratulating people and telephonic communication.				
	Reading Skills: Identifying main idea, Extensive and intensive reading using			
5.	academic and non-academic texts, Reading of newspaper articles, magazines, stories			
	etc.			
6.	Writing Skills: prep ring invitation cards, congratulation notes, Paragraph writing,			
DEFED	Drafting of formal and informal letters, essay writing.			
REFERI	ENCE:			
• M. A	Ashraf Rizvi, Effective Technical Communication, Mc Graw Hill Education(India)			
Priva	te Limited: New Delhi 2015			
• Raym	ond Murphy, Essential English Grammar ,Cam bridge University Press 2015			
Onlin	e resources: You Tube - Daily Video Vocabulary, Vocab 24, TED Lectures,			
Inspir	Inspirational Speeches/ Addresses of success people, Parliamentary Speeches, interviews,			
vario	various internet channel devoted to learning and improving communication English			

Course Code & Name: Speaking Effectively

COURSE OUTLINE:

This course aims to introduce learners to the dynamics of effective spoken communication by establishing speaking as an autonomous medium with a distinctive vocabulary, syntax, structure, style and register. It will enable learners to participate in one to one interactions, in small groups and before a group. Learners are expected to master the fundamentals of speaking such as vocabulary, body language, pronunciation and basic conversation skills before they move on to more advanced activities such as appearing in interviews, making formal presentations and participating in meetings.

COURSE STRUCTURE:

Module	Title				
1	Introduction, Verbal Communication				
2	Nonverbal Communication				
3	Phonetics				
4	Voice and delivery				
5	Basic conversational skills				
6	Appearing in interviews and taking interviews				
7	Making and assessing presentations				
8	Group discussions and meetings				
REFERENC	CES:				

• Andersen, Peter A. Nonverbal Communication: Forms and Functions. Mountain View, CA: Mayfield, 1999.

• Connor, J.D. Better English Pronunciation. Cambridge: Cambridge University Press.2013.

 Bradbury, Andrew. Successful Presentation Skills: Build Confidence; Understand Body Language; Use Visual Aids Effectively. London: Kogan Page 2010.

Course Name: Enhancing Soft Skills and Personality

COURSE OUTLINE:

The course aims to cause an enhanced awareness about the significance of soft skills in professional and inter-personal communications and facilitate an all-round development of personality. Hard or technical skills help securing a basic position in ones life and career. But only soft skills can ensure a person retain it, climb further, reach a pinnacle, achieve excellence, and derive fulfillment and supreme joy. Soft skills comprise pleasant and appealing personality traits as selfconfidence, positive attitude, emotional intelligence, social grace, flexibility, friendliness and effective communication skills. The focus of this course is on interpersonal and management skills.

COURSE ST	TRUCTURE:			
Module	Title			
1	Highlighting Developing Soft Skills and Personality Course-1 Highlighting Developing Soft Skills and PersonalityCourse-2 Definitions and Types of Mind set Learning Mindset Developing Growth Mindsets			
2	Importance of Time and Understanding Perceptions of Time Using Time Efficiently, Understanding Procrastination, Overcoming Procrastination, Don't Say "Yes" How to Make Others Happy			
3	Types of People, How to Say "No, Controlling Anger, Gaining Power of Positive Thinking-1, Gaining Power from Positive Thinking-2			
4	What Makes Others Dislike You? What Makes Others Dislike You-1 What Makes Others Dislike You-2 Being Attractve-1 Being Attractve-2			
5	Common Errors-1 Common Errors-2, Common Errors-3, Common Errors-4			

		Common Errors-5
6		Humour in Communication,
		Humour in the Workplace,
		Functon of Humour in the Workplace,
		Money and Personality. Managing Money.
7		Health and Personality,
		Managing Health-1: Importance of Exercise,
		Managing Health-2: Diet and Sleep,
		Love and Personality, Managing Love
8		Ethics and Etiquette
		Business Etiquette
		Managing Mind and Memory
		Improving Memory
		Care for Environment
		Highlights of the Course
RE	FERENCES	:
	Dorch, Pa	tricia. What Are Soft Skills? New York: Execu Dress Publisher,
	2013.	
	 Kamin, M 	axine. Soft Skills Revolution: A Guide for Connecting with
	Compassi	on for Trainers,
	• Teams, an	d Leaders. Washington, DC: Pfeiffer and Company, 2013.
	• Klaus, Per	ggy, Jane Rohman and Molly Hamaker. The Hard Truth about Soft
	Skills. Lo	ndon:
	 HarperCo 	llins E-books, 2007.
.Q.		

Date : 22/10/2018

Notice

Subject: Regarding Value Added Courses

It is hereby informed to all the students that for academic year 2018-2019, V. M. Patel College of Management Studies has taken initiative of offering Value Added Course of holistic development of Students. It is also at assisting students in their long term growth. Value Added Courses will serve as a bridge to fill the gap between formal education and Corporate demands.

All the students of BBA (General/FS/MM) / B.Com / M.Com Semester 2, 4 and 6 are required to take below given Value Added Course in a year:

Sr. No.	Class & Semester	Course Name
1.	BBA (General/FS/MM) Sem. 1	English Language
2.	BBA (General/FS/MM) Sem. 3	Entrepreneurship Development & Start- Up
3.	B.Com Sem. 1	English Language
4.	B.Com Sem. 3	Entrepreneurship Development & Start- Up
6.	M.Com Sem. 1	Entrepreneurship Development & Start- Up

Total 30 hours course will be completed on the basis of full day sessions of the respective class. Session will be conducted as per time table during month of October.

You can contact Dr. Usha Kaushik, Coordinator, for detailed information of the course and certificate. The schedule of the sessions, venue and course contents are displayed and notice board.



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Dr. Usha Kaushik Coordinator VMPCMS, GUNI

V. M. PATEL COLLEGE OF MANAGEMENT STUDIES

Value Added Course Schedule

Academic Year: 2018-19

Time Table for BBA (Gen/FS/MM) Sem. 1 and 3

Day	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Tuesday
Date	22.10.2018	23.10.2108	24.10.2018	25.10.2018	26.10.2018	27.10.2018	30.10.2018
	1.15 - 2.15	1.15 - 2.15	1.15 - 2.15	1.15 - 2.15	1.15 - 2.15	9.00 - 10.00	1.15 - 2.15
	2.20 - 3.20	2.20 - 3.20	2.20 - 3.20	2.20 - 3.20	2.20 - 3.20	10.05 -11.05	2.20 - 3.20
Time	3.25 - 4.25	3.25 - 4.25	3.25 - 4.25	3.25 - 4.25	3.25 - 4.25	11.10 - 12.10	3.25 - 4.25
Time	4.30 - 5.30	4.30 - 5.30	4.30 - 5.30	4.30 - 5.30	4.30 - 5.30	1.10 - 2.10	4.30 - 5.30
						2.15 - 3.15	
						3.20 - 4.20	

V. M. PATEL COLLEGE OF MANAGEMENT STUDIES

Academic Year: 2018-19

BBA (Gen/FS/MM) Sem. 1 and 3

Course Code & Name: CEU01ENL: English Language

BBA (Gen/FS/MM) Sem. 1	Date	Day
	22.10.2018	Monday
-	23.10.2108	Tuesday
-	24.10.2018	Wednesday
Venue: Seminar Hall 1	25.10.2018	Thursday
	26.10.2018	Friday
-	27.10.2018	Saturday
-	30.10.2018	Tuesday

Course Name: Entrepreneurship Development & Start-Up

Date	Day
22.10.2018	Monday
23.10.2108	Tuesday
24.10.2018	Wednesday
25.10.2018	Thursday
26.10.2018	Friday
27.10.2018	Saturday
30.10.2018	Tuesday
	Date 22.10.2018 23.10.2108 24.10.2018 25.10.2018 26.10.2018 27.10.2018 30.10.2018

V. M. PATEL COLLEGE OF MANAGEMENT STUDIES

Academic Year: 2018-19 B.COM. / M.Com. Sem. 1, 3

Course Code & Name: CEU01ENL: English Language

B.Com. 1 & M.Com. 1	Date	Day
	22.10.2018	Monday
	23.10.2108	Tuesday
	24.10.2018	Wednesday
Venue: Room No. 103	25.10.2018	Thursday
	26.10.2018	Friday
	27.10.2018	Saturday
	30.10.2018	Tuesday

Course Name: CEU02EDS: Entrepreneurship Development & Start -Up

B.Com 3 & B.A. 1	Date	Day
	22.10.2018	Monday
	23.10.2108	Tuesday
	24.10.2018	Wednesday
Venue: Room No. 104	25.10.2018	Thursday
	26.10.2018	Friday
	27.10.2018	Saturday
	30.10.2018	Tuesday

Course Code: CEU01ENL Course Name: English Language

The Course aims at preparing students to cope up with university education being imparted in English as medium of instruction. It specifically aims at bridging the gap between school and university education to reinforce the language skills and to support independent learning.

Course S	Course Structure:				
Module	Title				
1	Vocabulary Building: Synonyms-antonyms, Words often confused word-analogies,				
1.	one word substitutes, prefix-suffix, idioms and phrases.				
	Grammar and Language Components: Parts of speech, capitalization and punctuation,				
2	Sentence formation and sentence transformation (affirmative, negative and				
۷.	interrogative), Sentence types (function and structure based), Concord (subject-verb				
	agreement) and Tenses.				
	Listening Skills: Types of Listening, listening to announcements of railway station,				
3.	bus station, airport, sports announcement, Listening motivational speeches, lectures,				
	spiritual talks, media interviews, business talks and presentations (TED Talks)				
	Speaking Skills and Body Language: Paralanguage, proxemics, Everyday				
4	conversation like, Self-introduction, Introducing painter and other in the social or				
4.	formal gathering, asking for and giving information, requesting and responding to				
	requests, congratulating people and telephonic communication.				
	Reading Skills: Identifying main idea, Extensive and intensive reading using				
5.	academic and non-academic texts, Reading of newspaper articles, magazines, stories				
	etc.				
6	Writing Skills: prep ring invitation cards, congratulation notes, Paragraph writing,				
0.	Drafting of formal and informal letters, essay writing.				
REFERI	REFERENCE:				
• M. Ashraf Rizvi, Effective Technical Communication, Mc Graw Hill Education(India)					
Priva	Private Limited: New Delhi 2015				
• Raym	• Raymond Murphy, Essential English Grammar, Cam bridge University Press 2015				
Onlin	• Online resources: You Tube - Daily Video Vocabulary, Vocab 24, TED Lectures,				
Inspir	Inspirational Speeches/ Addresses of success people, Parliamentary Speeches, interviews,				

various internet channel devoted to learning and improving communication English

Course Code: CEU02EDS

Course Name: Entrepreneurship Development and Start-Up

Course Outline: The course titled Entrepreneurship and Start up, is designed is to give in-depth understanding on various aspects of innovation, creativity, evolving business models, incubation and entrepreneurship. The course also includes sessions on blue ocean strategy and technology incubation which are proving as game changer i n todays' competitive scenario.

The course is a blend of theory and practice therefore this course does not require any prerequisite and will be useful to understand innovation and its applications in different spheres of development and growth.

Course Structure:			
Module	Title		
1	Analyzing the Current Business Scenario, Innovation and Creativity- An Introduction,		
1.	Innovation in Current Environment, Types of Innovation, School of Innovation.		
2	Challenges of Innovation, Steps of Innovation Management, Idea Management		
۷.	System, Divergent Vs. Convergent Thinking, Levers of Idea Management		
2	Experimentation in Innovation Management, Idea Championship, Participation for		
5.	Innovation, Co-creation for Innovation, Proto typing to Incubation.		
4	What is a Business Model ,Who is an Entrepreneur ,Social Entrepreneurship Blue		
4.	Ocean Strategy-I, Blue Ocean Strategy-II		
	Marketing of Innovation, Technology Innovation Process, Technological Innovation		
5.	Management Planning, Technological Innovation Management Strategies, Technology		
	Forecasting		
	Sustainability Innovation and Entrepreneurship, Types of Sustainable		
6	Entrepreneurship, Conditions for Sustainable Innovation, strategic involvement in		
0.	sustainable development, Exploration of business models for material efficiency		
	services.		
7	Management of Innovation, creation of IPR, Management of Innovation, creation of		
/.	IPR, Types of IPR, Patents in India, Copyrights and other important IP		
	Business Models and value proposition, Business Model Failure: Reasons and		
8.	Remedies Incubators : Business vs. Technology, managing Investor for Innovation,		
	Future markets and Innovation needs for India.		
REFERI	ENCE:		
• 8 Step	ps to Innovation: Going From Jugaad To Excellence – Book by Rishikesha T. Krishnan		
and V	'inay Dabholkar		
• Innov	ation and Entrepreneurship Book by Peter Druker		
TIDO			

HBS series on Innovation and Entrepreneurship

Faculty of Management Studies (VMPCMS) Value Added Course Participant Details (2018-19)

Sr. No.	Degree	Sem.	Enrl. No.	Name of the Student	Course Name	
166	BBA (Financial Services)	3	17052321012	VADI MADHVIK VIPULBHAI	Entrepreneurship Development & Start-Up	
167	BBA (Financial Services)	3	18052322001	PATEL DIVANSHI RAVIKUMAR	Entrepreneurship Development & Start-Up	
168	BBA (Financial Services)	3	18052322002	PATEL VISHWA MAHESHKUMAR	Entrepreneurship Development & Start-Up	
169	BBA (Marketing Management)	3	17052341001	JAYESH R KHUNTAD	Entrepreneurship Development & Start-Up	
170	BBA (Marketing Management)	3	17052341002	KHANDHERIYA RAHUL PARVISHBHAI	Entrepreneurship Development & Start-Up	
171	BBA (Marketing Management)	3	17052341003	PATEL JAIMIN SANJAYKUMAR	Entrepreneurship Development & Start-Up	
172	BBA (Marketing Management)	3	17052341004	SHAH KARANKUMAR RAJESHBHAI	Entrepreneurship Development & Start-Up	
173	BBA (Marketing Management)	3	17052341006	SOLANKI BHAVESH SHANKARLAL	Entrepreneurship Development & Start-Up	



Date: 23/02/2018

NOTICE

Subject: Regarding Value Added Courses

It is hereby informed to all the students that for academic year 2017-18, V. M. Patel College of Management Studies has taken initiative of offering Value Added Course for holistic development of the students. It also aims at assisting students in their long-term growth. Value Added courses will serve as a bridge to fill the gap between formal education and corporate demands.

All the students of BBA (Gen/FS/MM)/B.Com./ M.Com of Semester 2 and 4 are required to take below given Value Added Course once in a year:

Sr. No.	Class & Sem.	Course Name
1	BBA (Gen./FS/MM) 2	Speaking Effectively
2	BBA (Gen./FS/MM) 4	Speaking Effectively
3	B.Com 2	Personality Development
4	B.Com 4	Enhancing Soft Skills and Personality
5	M.Com 2	Speaking Effectively

Total 30 hours course will be completed on the basis of full day sessions of the respective class. Session will be conducted as per given time table during the month of March and April.

You can contact Dr. Usha Kaushik, Coordinator, for detailed information of the course and Certificate. The schedule of the sessions, Venue and Course contents are displayed on notice board.



Heushick

Dr. Usha Kaushik Coordinator, VMPCMS

V. M. PATEL COLLEGE OF MANAGEMENT STUDIES

Value Added Course Schedule

Academic Year: 2017-18

BBA (General / Financial Services / Marketing Management)

Course Name: Speaking Effectively

Class & Sem.	Venue	Time	Dates
BBA (Gen./FS/MM) Sem. 2	Room No. 104	2:15 p.m. to 4:15 p.m.	March, 2018: 7 th - 9 th ; 14 th - 16 th 20 th - 23 rd ; 27 th - 30 th April, 2018: 3 rd
BBA (Gen./FS/MM) Sem. 4	Seminar Hall 1	2:15 p.m. to 4:15 p.m.	March, 2018: 7 th - 9 th ; 14 th - 16 th 20 th - 23 rd ; 27 th - 30 th April, 2018: 3 rd

V. M. PATEL COLLEGE OF MANAGEMENT STUDIES

Value Added Course Schedule

Academic Year: 2017-18 B.Com. /

M.Com.

Course Name: Speaking Effectively

Class & Sem.	Venue	Time	Dates
B.Com. Sem. 2	Room No. 101	2:15 p.m. to 4:15 p.m.	March, 2018: 7 th - 9 th ; 14 th - 16 th 20 th - 23 rd ; 27 th - 30 th April, 2018: 3 rd
B.Com. Sem. 4	Room No. 102	2:15 p.m. to 4:15 p.m.	March, 2018: $7^{th} - 9^{th}$; $14^{th} - 16^{th}$ $20^{th} - 23^{rd}$; $27^{th} - 30^{th}$ April, 2018: 3^{rd}
M.Com. Sem. 2	Room No. 102	2:15 p.m. to 4:15 p.m.	March, 2018: $7^{th} - 9^{th}$; $14^{th} - 16^{th}$ $20^{th} - 23^{rd}$; $27^{th} - 30^{th}$ April, 2018: 3^{rd}

Course Code & Name: Speaking Effectively

COURSE OUTLINE:

This course aims to introduce learners to the dynamics of effective spoken communication by establishing speaking as an autonomous medium with a distinctive vocabulary, syntax, structure, style and register. It will enable learners to participate in one to one interactions, in small groups and before a group. Learners are expected to master the fundamentals of speaking such as vocabulary, body language, pronunciation and basic conversation skills before they move on to more advanced activities such as appearing in interviews, making formal presentations and participating in meetings.

COURSE STRUCTURE:

Module	Title	
1	Introduction, Verbal Communication	
2	Nonverbal Communication	
3	Phonetics	
4	Voice and delivery	
5	Basic conversational skills	
6	Appearing in interviews and taking interviews	
7	Making and assessing presentations	
8	Group discussions and meetings	
REFERENC	'ES:	

 Andersen, Peter A. Nonverbal Communication: Forms and Functions. Mountain View, CA: Mayfield, 1999.

 Connor, J.D. Better English Pronunciation. Cambridge: Cambridge University Press.2013.

 Bradbury, Andrew. Successful Presentation Skills: Build Confidence; Understand Body Language; Use Visual Aids Effectively. London: Kogan Page 2010.

Course Name: Enhancing Soft Skills and Personality

COURSE OUTLINE:

The course aims to cause an enhanced awareness about the significance of soft skills in professional and inter-personal communications and facilitate an all-round development of personality. Hard or technical skills help securing a basic position in ones life and career. But only soft skills can ensure a person retain it, climb further, reach a pinnacle, achieve excellence, and derive fulfillment and supreme joy. Soft skills comprise pleasant and appealing personality traits as selfconfidence, positive attitude, emotional intelligence, social grace, flexibility, friendliness and effective communication skills. The focus of this course is on interpersonal and management skills.

COURSE STRUCTURE:

N 1 1	Title		
Module			
1	Highlighting Developing Soft Skills and Personality Course-1 Highlighting Developing Soft Skills and PersonalityCourse-2 Definitions and Types of Mind set		
	Learning Mindset		
	Developing Growth Mindsets		
2	Importance of Time and Understanding Perceptions of Time		
	Using Time Efficiently, Understanding Proclastination,		
	Overcoming Procrastination, Don't Say "Yes" How to Make		
	Others Happy		
3	Types of People, How to Say "No, Controlling Anger, Gaining		
	Power of Positive Thinking-1,		
	Gaining Power from Positive Thinking-2		
4	What Makes Others Dislike You?		
	What Makes Others Dislike You-1		
	What Makes Others Dislike You-2		
	Being Attractve-1		
	Being Attractve-2		
5	Common Errors-1 Common Errors-2,		
	Common Errors-3, Common Errors-4		

	New York Control of Co		
1	Common Errors-5		
6	Humour in Communication,		
	Humour in the Workplace,		
	Functon of Humour in the Workplace,		
	Money and Personality. Managing Money.		
7	Health and Personality,		
	Managing Health-1: Importance of Exercise,		
	Managing Health-2: Diet and Sleep,		
	Love and Personality, Managing Love		
8	Ethics and Etiquette		
	Business Etiquette		
	Managing Mind and Memory		
	Improving Memory		
	Care for Environment		
	Highlights of the Course		
REFERENCES			
Dorch, Pat	tricia. What Are Soft Skills? New York: Execu Dress Publisher,		
2013.			
Kamin, M	axine. Soft Skills Revolution: A Guide for Connecting with		
Compassion for Trainers,			
 Teams, and Leaders. Washington, DC: Pfeiffer and Company, 2013. 			
Klaus, Peg	gy, Jane Rohman and Molly Hamaker. The Hard Truth about Soft		
Skills. Lor	idon:		
HarperCol	lins E-books, 2007.		

Ganpat University

Value Added Course

Personality Development

1	Personality Enhancement Tips	No.Hours
	Personal grooming tips.	5
	Group discussion tips	
	Public speaking and role play	
	Presentation tips	
2	Body Language	4
	Forms of body language,	
	Tips to improve body language	
	Body language in building interpersonal relations	
	Body language in building industrial relations	
	Understanding and interpreting common gestures	
3	Developing Positive Attitude	6
	Introduction, factors which form attitude,	
	Ways of changing attitude in person,	
	Obstacles in developing positive attitude,	
	Developing positive attitude,	
	Workplace attitude and	
	Power of positive attitude.	
	Counseling	
4	Etiquette and Manners	5
	Introduction to etiquette,	
	Benefits of etiquette	
	Personal behavior etiquette	
	Office etiquette; Telephonic etiquette, Email etiquette,	
	Table etiquettes, Business meeting etiquette	
5	Leadership	5
	Time management	
	Team building and team work	
	Types of leaders	
	Characteristics of Charismatic leaders	
	Leadership Skills	
6	Interview Skills	5
	Cover letter	
	Effective Resume and CV writing	
	Preparing for interview (Research organization, dressing, body language,	
	checklists for interview, frequently asked questions, do's and don'ts of	
	interview.)	
Sou	rces/Reference:	
Alex	K.,Soft Skills Know Yourself and Know the World, Sultan Chand & Sons New	Delhi
You	tube Videos, Soft Skill books, Business Communication Books, Conversation bo	oks.

Ganpat University Mehsana Urban Institute of Sciences List of Value-Added Courses Offered During Five Years

Sr.				No. of	
No				times	Du
				offered	rati
				during	on
	Name of the value added	Course		the	of
	courses (with 30 or more	Code (if		same	cou
	contact hours)offered	any)	Year of offering	vear	rse
1	Enhancing Soft Skills and Personality	VAC01	2013-14	1	30
2	Speaking Effectively	VAC02	2013-14	1	30
3	Emotional Intelligence	VAC03	2013-14	1	30
4	Educational Leadership	VAC04	2013-14	1	30
5	Life Skills Development	VAC05	2013-14	1	30
6	Quantitative Aptitude and Logical Reasoning	VAC06	2013-14	1	30
7	Stochastic Processes	VAC07	2014-15	1	30
8	Human Molecular Genetics	VAC08	2014-15	1	30
9	NMR Research	VAC09	2014-15	1	30
10	Fiber Optics	VAC10	2014-15	1	30
11	Introduction to Research	VAC11	2016-17	1	30
12	Basic Python Programming	VAC12	2016-17	1	30
13	Image Processing	VAC13	2017-18	1	30
14	Basic concept of Digital Media Marketing	VAC14	2017-18	1	30
15	Social Networks	VAC15	2017-18	1	30
16	Introduction to Internet of Things	VAC16	2018-19	1	30
17	Artificial Intelligence: Knowledge Representation and Reasoning	VAC17	2018-19	1	30
18	Introduction to Machine Learning	VAC18	2018-19	1	30
19	MATLAB Programming for Numerical Computation	VAC19	2018-19	1	30
20	Vedic Mathematics	VAC20	2018-19	1	30
21	Women's Grooming and Professional Etiquette	VAC21	2020-21	1	30
22	Men's Grooming and Professional Etiquette	VAC22	2020-21	1	30
23	IELTS	VAC23	2020-21	1	30
24	Communication for professional success and employability	VAC24	2020-21	1	30
25	Innovation startup and entrepreneurship induction program	VAC25	2020-21	1	30



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GANPAT UNIVERSITY							
FACULTY OF SCIENCE							
Programme B.Sc./M.Sc.			Branch/Spec.	All	All		
Seme	ster	II/IV/VI		Effective from Academic Year	2013-14		
Subje	Subject code VAC01 Subject Name Enhancing Soft Skills and Personality						
Learn	ing Out	come:					
To inc	ulcate a	and uphold values	s, morals and eth	ics in their professional environment	(formal-informal). They	
will al	SO KNOV	v now developing	genuine empath	y towards others in life holds vital in	ability managing	re also	
impro	ving he	alth, managing pr	ofessional and pe	rsonal life and dealing with issues like	e money and love		
Theor	v svllab	us	•				
Unit	<i>y synab</i>			Content		Hrs	
1	Emoti	onal Intelligence,	Spiritual Intelliger	nce, Dealing with Emotions, Enhanci	ng Empathy,	15	
	Showi	ng Sympathy, Dea	ling with Antipatl	ny, Developing Emotional Bonding			
	Persor Privac	nal Ethics, Profess y & Space	ional Ethics, Etiqu	ette, Social Graces, Office Etiquette,	Respecting		
	Civic Sense, Care for the Environment, Negotiating, Decision-Making, Conflict-Resolution, Five Styles						
	Emotional Literacy, Assertiveness versus Aggressiveness, Learning to Say "NO" & Saying "Please" Learning to Appreciate and Give Praise, Dealing with Foreign Colleagues, Professional and Personal Excellence						
2	Humour and Positivity, Humour for Effective Communication, Anecdotes for Breaking15Monotony, Managing Time, Beating Procrastination, Finding Meaning & Purpose15						
	Managing People, Leadership & Co-ordination, Team-Working & Co-operation, Developing Accountability, Commitment and Responsibility, Behaving Conscientious						
	Managing Stress Maintaining Stress-free life & work, Stopping Worrying, Maintaining Health, Boosting Memory, Enhancing Study Skills						
	Maintaining Positive Outlook, Managing Money, Managing Love, Dealing with Work Issues, Dealing with Life Issues, Balancing Work and Life						
Reference Books							
1	Dorch	, Patricia. What A	re Soft Skills? New	/ York: Execu Dress Publisher, 2013.			
2	Kamin, Maxine. Soft Skills Revolution: A Guide for Connecting with Compassion for Trainers, Teams, and Leaders. Washington, DC: Pfeiffer and Company, 2013.					ēams,	
3	Klaus, Peggy, Jane Rohman and Molly Hamaker. The Hard Truth about Soft Skills. London: HarperCollins E-books, 2007.						
4	Petes S. J., Francis. Soft Skills and Professional Communication. New Delhi: Tata McGraw-Hill Education, 2011.						
5	Stein, Steven J. and Howard E. Book. The EQ Edge: Emotional Intelligence and Your Success. Canada: Wiley and Sons, 2006.						

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FACULTY OF SCIENCE							
Programme B.Sc./M.Sc.			Branch/Spec. All				
Semester		II/IV/VI		Effective from Academic Year	2013-14		
Subje	ct code	code VAC02 Subject Name Speaking Effectively					
Learni	Learning Outcome:						
As the	e main	thrust here is to	enable students	to speak confidently, through the	his course students	will be	
comp inforn	compelled to get rid of their inhibitions while speaking and gain in confidence to face formal as well as informal situations that require them to be verbal and articulate.						
Theor	Theory syllabus						
Unit	Content			Hrs			
1	Introd	Introduction, Verbal Communication, Nonverbal Communication, Phonetics, Voice and 15					
	delivery						
2	Basic conversational skills, Appearing in interviews and taking interviews, Making and 15						
	assessing presentations, Group discussions and meetings						
Refere	Reference Books						
1	1 Andersen, Peter A. Nonverbal Communication: Forms and Functions. Mountain View, CA: Mayfield, 1999,						
2	Connor, J.D. Better English Pronunciation. Cambridge: Cambridge University Press.2013						
3	Bradbury, Andrew. Successful Presentation Skills: Build Confidence; Understand Body Language; Use Visual Aids Effectively. London: Kogan Page 2010						
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	FACULTY OF SCIENCE						
Progra	amme	B.Sc.,	/M.Sc.		Branch/Spec.	All	
Seme	ster	II/IV/	ΊVI		Effective from Academic Year	2013-14	
Subje	ct code		VAC03	Subject Name	Emotional Intelligence		
Learn	ing Outo	come:					
Stude circur emoti	Students are likely to understand the inner-workings of emotional intelligence and how it shapes the circumstances around us. They are also to tap into its hidden potential to enhance happiness by developing emotional intelligence through spirituality and meditation.						
Theor	y syllab	us					
Unit					Content		Hrs
1	Introduction Emotion, Intelligence & Wisdom, Concept theory, measurement and 15 applications of intelligence, Emotional intelligence: Concept, Theory and Measurements, Correlates of Emotional intelligence					15	
2	Emotio	onal in	telligence,	Culture, schooling	g 7 happiness, EQ mapping For enha	ancing emotional	15
	intellig	gence,	Managing	Stress, Suicide Pre	evention, through emotional intellig	ence, spirituality	
	and m	editati	ion, Applica	tion of emotional	intelligence at family, school and w	vorkplace	
Refer	ence Bo	oks					
1	Emotio Mathu	onal in ır. (200	telligence: 08), Delhi: A	Perspectives in O Academic Excellen	rganisations by Dr. Rabindra Kumar .ce.	Pradhan and Purni	ma
2	Emotio	onal In	telligence a	at Work By Dalip S	ingh New Delhi: Response Books, 2	006 (Sage).	
3	Emotional Intelligence: Optimizing Human Performance at Work By Rabindra Kumar Pradhan and N S Thingujam (2012). Germany: Lap Lambert Academic Publishing					and N S	
4	The Ha School	andboo and ir	ok of Emoti n the Work	ional Intelligence: place By Reuven E	Theory, Development, Assessment Bar-On and James D. A. Parker (2000	, and Application a)). Jossey-Bass	t Home,

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FACULTY OF SCIENCE							
Progra	amme		B.Sc./M.	Sc.	Branch/Spec. All		
Seme	ster		II/IV/VI		Effective from Academic Year	2013-14	
Subje	ct code	VAC04		Subject Name	Educational Leadership		
Learn	ing Outcome	e:					
After having gone through this course, students will get to learn different types of leadership such as turnaround, transformative and institutional. They are also expected to emulate qualities that go into making charismatic leaders.							ch as into
Theor	y syllabus						
Unit				Conte	nt		Hrs
1	Educational Management & Leadership: Issues & challenges and Professional Development & 15 the Reflective Practitioner						
	Professional Ethics & Values in Teaching and Key Challenges for Educational Leaders: Grooming Capable & Authentic Educational Leaders						
	Emotional	Intelligence	& Educat	ional Leadership			
	Leadership	for Manag	ng Divers	ity & Inclusion in	Education		
2	Educationa	l Leadershi	p in a cha	nging World : 21st	t Century Challenges		15
	Innovative Perspective	Pedagogy, es	Technolo	gy & Turnaround	Leadership: The Stakeholders	ТМ	
	Transforma Approach	ative Leade	rship for e	engaging Higher E	ducation & Social Change : A Str	ategic	
	Institutiona & Sustainal	al Leadersh ble Educatio	ip & Qual on	ity of Education :	A Vision for nurturing Academic	: Leadership	
Refer	ence Books						
1	Educationa University I	ll Leadershi Press ; 2.	p: Key Ch	allenges and Eth	ical Tensions ; Author-Patrick D	uignan, Camb	ridge
2	Educationa Bennett an	l Leadershi d Christine	p: Contex Wise, SAG	t, Strategy and C GE publication	ollaboration; Author- Margaret	Preedy, Nigel	

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Progra	amme	B.Sc./M.Sc.		Branch/Spec.	All	
Seme	ster	II/IV/VI		Effective from Academic Year	2013-14	
Subje	ct code	VAC05	Subject Name	Life Skills Development		
Learning Outcome:						
Students are expected to take with them this very vital skill-set called life-skills where they will put to use their critical thinking to cope with challenging situations in life and are also expected to excel in their career by becoming more self-aware.					put to xcel in	
Theor	y syllab	us				
Unit			C	ontent		Hrs
1	LIFE S	KILL: Definition and	I Importance of L	ife Skills, Life Skills Education, Life Sk	tills	15
	Appro	ach in Education ar	nd Training, Classi	fication of Life Skills - Generic, Probl	em	
	Specif	ic and Area Specific	Skills, Social & N	egotiation Skills		
	SELF-A	WARENESS AND E	FFECTIVENESS			
	Self-Awareness: Definition, Importance, Dimensions, Components, Methods and					
	Strategies for nurturing Self-Awareness					
	Self-Effectiveness: Body Image, Self Esteem, Punctuality, Honesty, Loyalty,					
	Deper	dability, Reliability				
2	THINK	ING AND COPING	SKILLS: Nature, El	ements of Thought and Types of Thi	nking	15
	Creati	ve and Critical Thin	king: Definition,	Nature, Stages		
	Proble	em Solving and Dec	ision Making: Int	roduction of Problem Solving and De	ecision	
	Conin	g process z Skille: Coping with	Emotions: Dofin	ition Characteristics		
	Coping	g with stress: Defini	tion. Sources of S	Stress. Strategies to Manage Stress		
	LIFE S	KILLS AND CAREER	,			
	Educa	tion: Goal Setting, ⁻	Time Managemer	nt, Effective Learning: Study Skills an	d Memory	
	Techn	iques, Examination	Preparation			
	Work/	Career: Factors Inf	luencing Career (Choice, Career Planning: Importance,	Steps	
	Interv	iew: Types, Prepara	ition, Do's and Do	on'ts, Life Skills for Effective Learning	,	
	Succes					
Text E	Books					
1	Life Sk	ills Education by Dr	. K. Ravikanth Ra	o, Dr. P. Dinakar - Neelkamal Publica	tions Pvt. Lto	J.
Refer	ence Bo	oks				
1	Persor	nality Development	and soft skills by	Barun K Mitra-OXFORD		
2	Caree Publis	r Counselling: A Hai hing Co	ndbook by Arulma	ani. G. and Arulmani Sonali Nag- Tata	Mc Graw H	ill
3	Psycho Karen,	ology for Living- Ad Atwater Eastwood	ustment, Growth I Pearson Educati	and Behaviour Today(8th Edn.), by on Inc, New Delhi.	Duffy Grove	r

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			FACU	LTY OF SCIENCE		
Progra	amme	B.Sc./M.Sc.		Branch/Spec.	All	
Seme	ster	II/IV/VI		Effective from Academic Year	2013-14	
Subje	ct code	VAC06	Subject Name	Quantitative Aptitude and Logical	Reasoning	
Learn	Learning Outcome:					
On su	uccessfu	l completion of	the course the	students will be able to Understa	and the basic conce	pts of
quant	itative a	bility, logical rea	soning and are ex	pected to acquire satisfactory, gain	n competency in the	use of
verba	l reason	ing to be able to	appear in various	s competitive exams like CAT, CMA	T, GATE, GRE, GATE,	UPSC,
GPSC	etc.					
Theor	y syllabi	JS				
Unit				Content		Hrs
1	OPERA		BERS, H.C.F. & L.C	.M OF NUMBERS, DECIMAL FRACT	IONS: Face value &	15
	Place \	alue, Types of nu	umbers, Even & O	dd numbers, Prime numbers, Tests	of divisibility,	
	Factor	s & Multiples, HC	F or GCM or GCD,	LCM, Product of HCF & LCM, Co pr	imes, HCF & LCM	
	of Frac	tions, Conversior	n of Decimal into V	/ulgar Fraction, Operations & Comp	arison on decimal	
	fractio	ns, Recurring Dec	cimal, Basic Formu	lae for decimal fractions		
	SIMPL	FICATION OF NU	JMBERS: Square R	oots & Cube Roots, BODMAS Rule,	Modulus of a real	
	numbe	er, Facts and Forn	nulae of square ro	ots and cube roots		
	AVER	AGE, PROBLEMS	ON NUMBERS, PF	ROBLEMS ON AGES AND PERCENTA	GE: Facts and	
	Formu	lae of Average Co	oncept of Percenta	age, Express x% as fraction, Express	a/b as percent,	
	Results	on Population				
	SIMPL	E INTEREST: Cond	cept of principal a	nd interest, Facts and formulae for s	simple interest	
2	PERM	JTATION & COM	BINATIONS: Facto	orial notation, Number of permutati	ions, Number of	15
	combii	nations, Facts and	d formulae of perr	nutation and combinations		
	PROB A	BILITY: Experime	ent and Random e	xperiment, Sample space, Probabili	ty of Occurrence	
	of an e	vent, Results on	probability			
	TIME 8	& WORK, TIME &	DISTANCE: Facts	and formulae for time and work, Fa	icts and formulae	
	for tim	e and distance				
	ODD I	/IAN OUT & SERI	ES: Facts, exercise	es and solutions for odd man out, Fa	icts, exercises and	
	solutio	ns for series prob	olems			
Text B	Books					
1	QUAN	ITATIVE APTITU	DE for competitive	e examinations by Dr.R.S. Aggarwal,	S. CHAND publicatio	n
Refer	ence Bo	oks				
1	QUAN	TITATIVE APTITU	DE for competitive	e examinations by ABHIJIT GUHA, M	c Graw Hill Education	1
2	GENER	AL INTELLIGENCE	E AND TEST OF REA	ASONING, Vikas Publishing House		

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			FACL	JLTY OF SCIENCE			
Progra	amme	B.Sc./M.Sc.		Branch/Spec.	All		
Seme	ster	II/IV/VI		Effective from Academic Year	2014-15		
Subje	ct code	VAC07	Subject Name	Stochastic Processes			
Learn	ing Outo	come:					
Stude	nts are	expected to ach	ieve competenci	es like presenting the defining pr	roperties of various sto	chastic	
proce	ss mod	els, creating a	computerised sa	mple of any type of continuous	s or discrete time sto	chastic	
proce	ss, laer ementin	a logical appropr	late stochastic p	process model(s) for a given re-	esearch or applied pr	obiem,	
mode	l real ph	enomena and a	nswer some ques	tions in applied sciences.			
Theor	y syllabi	JS	•	••			
Unit				Content		Hrs	
1	Introd	uction to stochas	stic process, Prob	lems in random variables and dist	ributions, Problems in	15	
	Sequence of random variables, Definition, classification and Examples						
	Definition and simple stochastic process. Simple stochastic processes - Stationary processes						
	Autore	gressive process	ses	ss, simple stochastic processes ,	stationary processes,		
	D				a ha hatta in Alan at		
	Discret	e-time Markov	chains: Introduc	tion, Definition and Transition P	robability Matrix,		
	Спари	ian-koimogorov	Equations				
2	Discret	e-time Markov	chains (contd.)	: Classification of States and	Limiting Distributions,	15	
	Limitin	g and Station	ary Distribution	s, Limiting Distributions, Ergoo	dicity and stationary		
	distrib	utions, Time Re	eversible Markov	 Chain, Application of Irreducil 	ole Markov chains in		
	Queue	ing Models, Red	ucible Markov Ch	nains			
	Contin	uous-time Mark	ov chains : Defini	tion, Kolmogrov Differential Equa	tion and Infinitesimal		
	Gener	ator Matrix, Lii	miting and Stati	ionary Distributions, Birth Deat	h Processes, Poisson		
	proces	ses, M/M/1 Que	eueing model, Sin	nple Markovian Queueing Models			
Refer	ence Bo	oks					
1	J Medł	ni, Stochastic Pro	ocesses, 3 rd editi	on, New Age International Publish	iers, 2009		
2	Liliana	Blanco Castaneo	da, Viswanathan A	Arunachalam, Selvamuthu Dharm	araja, Introduction to		
	Probab	oility and Stocha	stic Processes wit	h Applications, Wiley, 2012.			
3	Kishor	S. Trivedi, Proba	bility and Statisti	cs with Reliability, Queuing, and C	omputer Science		
	Applica	ations, 2nd Edition	on, Wiley, 2002.				

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Progra	amme	B.Sc./M.Sc.		Branch/Spec.	All		
Seme	ster	II/IV/VI		Effective from Academic Year	2014-15		
Subje	ct code	VAC08	Subject Name	Human Molecular Genetics			
Learn	ing Outco	ome:					
Stude under genet on the	Students will learn to explain and consider problems arising from human genetics and will gain clear understanding of concepts in genetics: mutation /polymorphisms, heredity, Mendelian genetics, complex genetics. Besides, they will be able to conduct basic experiments and learn to interpret and evaluate the findings on their own.						
Theor	y synabus	5		Contont		Hrc	
1	Fundam	ientals of centra	I dogma (DNA, RN	IA and proteins; mutations)		15	
	Chromo chromo	some structui some abnormali	re and functio ities)	on (organization; structure-function	n relationship;		
	Genes i	n pedigree (Men	delian pedigree p	atterns, complications to pedigree pat	terns)		
	DNA clo PCR-bas	oning and hybri sed DNA analyse	dization techniqu s)	es (vector based cloning; nuclei acio	hybridizations;		
2	Mutatio repeat e	on and instability expansions)	y of human DNA	(mutation and polymorphism; pathog	enic mutations,	15	
	Molecu	lar pathology (ty	pes of mutations;	animal models for human disease)			
	Identifying human disease genes (functional cloning versus positional cloning; mutation screening)						
	Comple	x diseases; The H	Human Genome a	nd HapMap projects			
Refer	ence Boo	ks					
1	"Humar 2011	n Molecular Gen	etics 4 Tom Strack	nan, Andrew P. Read Garland Science/ ⁻	Faylor & Francis G	roup,	

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	FACULTY OF SCIENCE						
Progra	amme	B.Sc./M.Sc.		Branch/Spec.	All		
Seme	emester II/IV/VI			Effective from Academic Year	2014-15		
Subje	ct code	VAC09	Subject Name	NMR Research			
Learn	ing Outo	come:					
Stude exper struct	Students will have acquired understanding of basic principles of NMR, concepts of 1D and 2D NMR experiments Homonuclear 2D NMR, Heteronuclear 2D NMR. Further, they will be able to determine structure of molecules.						
Theor	y syllab	us					
Unit	Content				Hrs		
1	Introduction to NMR spectroscopy, Chemical shifts and J-coupling, One-dimensional proton NMR, One dimensional NMR of X-nuclei (13C, 15N, 31P and 19F)					15	
2	Homo Advan	nuclear 2D NMR ced topics (Solve	, Heteronucler 2 nt suppression, D	2D NMR, Structure determination rug Discovery, DOSY)	of molecules,	15	
Refere	ence Bo	oks					
1	Basic (One and Two Dim	ensional NMR: by	Horst Fiebrolin.			
2	NMR S	Spectroscopy Expl	lained: by Neil Jac	obsen			
3	Under	standing NMR sp	ectroscopy: by Jar	mes Keeler			
4	Introd	uction to Spectro	scopy: by Pavia et	al			

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Progra	amme	B.Sc./M.Sc.		Branch/Spec.	All			
Seme	ster	II/IV/VI		Effective from Academic Year	2014-15			
Subje	ct code	VAC10	Subject Name	Fiber Optics				
Learn	ing Outo	come:						
Stude	nts are	expected to iden	tify and do classi	fication of the structures of Optical	fiber and its ty	pes. They		
will a	lso gaiı	n knowledge ab	out channel imp	airments like losses and dispersio	n, optical sou	rces and		
detec	tors, de	sign consideratio	ns of fiber optic s	systems and eventually, they will be	able to condu	ct		
Theor	v svllah		Junded results.					
Unit	y Synab			Content		Hrs		
1	Introd	uction need for a	ontical communic	ation salient features of ontical fiber	s ray theory	15		
1	of light guidance, numerical aperture, modes of a fiber single and multimode fibers, step-							
	index	and graded-index	fibers, fiber fabri	cation techniques				
	Transr	nission character	istics of optical fib	ers, attenuation, pulse broadening m	nechanism,			
	interm	odal dispersion,	bit rate - length pi	oduct, material dispersion, electrom	agnetic			
	wave a	analysis of light p	ropagation in an i	nfinitely extended medium, em wave	es in			
	dielectrics, boundary conditions							
	Electromagnetic analysis of planar optical waveguides, TE and TM modes, planar mirror							
	symme	etric modes, b-V o	curves, modal field	ds				
	Power	associated with	modes of dielectri	c symmetric planar waveguide, asym	metric			
	planar	waveguide, singl	e polarization sing	gle mode waveguide, excitation of gu	ided modes			
	by pris	m coupling techr	nique, radiation m	odes, optical fiber waveguide, EH and	d HE modes,			
	weakiy	guiding fibers, L	P modes, mode ci	it-ons, b-v curves				
2	Optica	I fiber modes, f	ield patterns, dep	generacies, fractional power in the	core, single	15		
	disner	sion group delay	, node	neid diameter, bend loss, splice los	s, waveguide			
	Total	chromatic dispers	sion, pulse broade	ening and chirping, dispersion in grad	dedindex and			
	multila	ayer fibers, opti	cal fiber compo	nents and devices, directional cou	ıpler, power			
	splitte	r, WDM coupler,	polarization contr	ollers, fiber Bragg gratings				
	Variou	is types of fiber	Bragg gratings,	fabrication methods, applications,	long period			
	grating	gs, optical fiber	amplifier, erbium	doped fiber amplifier, dispersion r	nanagement,			
	comm	unication light	en, dispersion d emitting diode i	nternal and external quantum effi	ciencies IFD			
	charac	teristics, laser die	ode					
	Detect	ors for optical co	ommunication, p-i	-n photodetector, APD, System desig	gn, dispersion			
	and at	tenuation limited	l systems, BER, po	wer budgeting of fiber link, recent ad	dvances			
Refer	ence Bo	oks						
1	Ghatal	<pre>K A K and Thyagar</pre>	rajan K, "Introduct	ion to Fiber Optics", Cambridge Univ	ersity Press			
2	Saleh I	3 E A and Teich N	1 C, "Fundamental	s of Photonics," Wiley-Interscience				
3	Agraw	al G P, " Optical F	iber Communicat	ion System," Wiley-Interscience				
4	Keiser	G, "Optical Fiber	Communications'	', McGraw Hill				

5	Snyder A and Love J, "Optical Waveguide Theory", Chapmann and Hall
6	Senior J M, "Optical Fiber Communications," Pearson Prentice Hall

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Progr	amme	B.Sc./M.Sc.		Branch/Spec.	All		
Seme	ester II/IV/VI			Effective from Academic Year	2016-17		
Subje	ubject code VAC11 Subject Name		Subject Name	Introduction to Research			
Learn	ing Outo	come:					
Stude ethica	Students are likely to gain a deeper insight into what is research, te constituents of research and some of the ethical and sure-shot techniques to carry out research and disseminate their findings to the world.						
Theor	y syllab	us					
Unit				Content		Hrs	
1	A grou	p discussion on v	what is research, (Overview of research, Literature sur	vey	15	
	Experi	mental skills, Dat	a analysis, Model	ing skills			
			•				
2	Techn	ical writing, Tech	nical Presentation	ns, Creativity in Research		15	
	Creati	vity in Research,	Group discussion	on Ethics in Research			
Refer	ence Bo	oks					
1	Research Methodology- Methods and Techniques, Kothari, C.K., New Age International, New Delhi.					•	
2	Resear	rch Methodology	- A Step-By-Step G	Guide for Beginners, Ranjit Kumar, (P	earson Education, De	elhi)	

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Progra	amme	B.Sc./M.Sc.		Branch/Spec.	All		
Seme	ster	II/IV/VI		Effective from Academic Year	2016-17		
Subje	ct code	VAC12	Subject Name	Basic Python Programming			
Learn	ing Outo	come:					
Stude skill c (Pytho	Students are expected to acquire programming skills, object-oriented skills in core Python, and develop the skill of designing and writing the Graphical user Interfaces along with the database applications in it (Python).						
Theor	y syllab	us					
Unit			C	ontent		Hrs	
1	Introd	uction to Python:				10	
	Installa	ation and working	with Python, Fea	atures of Python, The Basics: Liter	al Constants,		
	Numbers, Strings, Variables, Identifier Naming, Data Types, Objects, Logical and Physical						
	Lines,	Indentation, Opera	tors and Expressi	ons, Control Flow statements: if, w	hile loop, for		
	loop, t	oreak, continue, Lib	rary: NumPy, Pan	das			
2	Using	Modules and Data	Structures:			10	
	Modul	es: Introduction, t	the from.Import	statement, Creating your own Me	odules, Data		
	Structi	ures: List, Tuple, I	Dictionary, Seque	ences, Object-Oriented Programm	ing: classes,		
	object	s, The Self, obje	ct Methods, The	e_init_method, Class and Objec	ct Variables,		
	Inherit	ance, polymorphis	m, Exceptions: E	rrors, Handling Exceptions, Raising	g Exceptions,		
	Using	Finally					
3	String	and File Manipulat	tion:			10	
	String	Functions, Manipu	ulating files and o	directories, Text files: reading/writ	ting text and		
	numbe	ers from/to a file, c	reating and readir	ng a formatted file.			
Refer	ence Bo	oks					
1	Funda	mental of Python: I	First Programs By	Kenneth A. Lambert			
2	Progra	mming Python By I	Mark Lutz				

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			FACUL	TY OF SCIENCE			
Progra	amme	B.Sc./M.Sc.		Branch/Spec.	All		
Seme	ster	II/IV/VI		Effective from Academic Year	2017-18		
Subje	ct code	VAC13	Subject Name	Image Processing			
Learn	Learning Outcome:						
Stude	nts are	expected to ana	lyze, evaluate, an	d interpret the various techniques	for image enhanc	ement	
and i	estorat	ion in the freq	uency domain us	ing different modes of transforms,	compression, and	d	
segme	entation	l.					
Theor	y syllab	us					
Unit				Content		Hrs	
1	INTRO	DUCTION: What	Is Digital Image I	Processing? The Origins of Digital Ir	nage Processing,	15	
	Examp	les of Fields tha	t Use Digital Ima	ge Processing, Fundamental Steps	in Digital Image		
	Proces	sing, Component	s of an Image Pro	cessing System.			
	DIGITAL IMAGE FUNDAMENTALS: Elements of Visual Perception, Light and the						
	Electromagnetic Spectrum, Image Sensing and Acquisition, Basic Concepts in Sampling and						
	Quant	ization, Some Bas	sic Relationships E	Between Pixels, An Introduction to the	he Mathematical		
	Tools l	Jsed in Digital Im	age Processing.				
			IS IN THE SPAT	IAL DOMAIN: Background, Some	Basic Intensity		
	Transf	ormation Functio	ons, Histogram Pro	ocessing, Fundamentals of Basics of	Spatial Filtering,		
	Smoot	ning and Sharper	hing Spatial Filters		<u> </u>		
2	IMAGE	RESTORATION	AND IMAGE	SEGMENTATION: A model of	of the Image	15	
	Degrad	dation/Restoratio	n Process, Noise	Models, Restoration in the Presence	e of Noisy Only-		
	Spatia	Filtering, Period	The Noise Reduction	on by Frequency Domain Filtering,	Linear, Position-		
	Invaria	int Degradations,	Estimating the L	begradation Function, Geometric Me	ean Filter, Image		
	Recons	Struction from Pro	ojections.	Deint Line and Edge Detection Three			
	IIVIAGE		N: Fundamentals,	Point, Line and Edge Detection, Inre	snolding, Region		
	Based	Segmentation, Se	egmentation Using	g Morphological Watersheds			
Text E	Books						
1	Digital	Image Processing	g by Rafael C. Gon	zalez and Richard E. Woods.			
Refer	ence Bo	oks					
1	Digital	Image Processing	g by S. Sridhar Oxf	ord University Press			
2	Funda	mentals of Image	Processing by An	il K Jain			
3	The Im	age Processing H	andbook by John	C Russ, CRC & IEEE Press			
4	Digital	Image Processing	g using MATLAB b	y Rafael C. Gonzalez, Richard E. Woo	ds, Steven		

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			FACULT	Y OF SCIENCE		
Progra	amme	B.Sc./M.Sc.		Branch/Spec.	All	
Seme	ster	II/IV/VI		Effective from Academic Year	2017-18	
Subje	ct code	VAC14	Subject Name	Basic concept of Digital Media Marl	keting	
Learn	ing Outo	ome:				
Stude create	nts are e the cre	likely to grasp the ative content, stra	e fundamentals o tegy, and its ampl	f Mobile, Email, Digital, and Social ification for rapidly growing e-marke	Media Marke ting in Digital v	ting to world.
Theor	y syllabı	ıs				
Unit			(Content		Hrs
1	Digital	Media Marketing				10
	Overvi	ew of the digital	marketing, Digi	tal and traditional marketing, Nee	ed of digital	
	market	ing, Objective of	digital marketin	g, Different ways for digital marke	eting, Online	
	market	ing plan, Digital m	arketing strategie	es, promote business online, Introdu	ction to	
	online	advertising -Email,	Website, Blog, Bl	og posting, Blog integration with soci	al media.	
2	Social	Media Marketing:				10
	Social	networking, Socia	al Media channe	ls, Bookmarking, SMM tools, Cont	ent writing,	
	Buildin	g brand, Lead ge	neration, Faceboo	ok marketing, Facebook insight, Ins	stagram and	
	Linked	in marketing, Twitt	er, Building follow	vers, Social media strategies.		
3	E-Mail	& Mobile Marke	ting: Overview of	f E-mail marketing, Email strategy a	nd planning,	10
	Email	Campion, Email T	ools, Mail Chim	o, Email Scheduling, Email Automa	tion, Mobile	
	Comm	erce, Mobile Integ	ration, Mobile and	alytics.		
Refer	ence Bo	oks				
1	eMark Editior	eting, The Essent ,Publication-Quirk	al guide to mai	rketing in a digital world, Rob si	okes, Minds	, 5th
2	Digital	marketing for Dun	nmies , Ryan Deiss	and Russ Hennesberry, 2017		

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			FACULT	Y OF SCIENCE		
Progra	amme	B.Sc./M.Sc.		Branch/Spec.	All	
Seme	ster	II/IV/VI		Effective from Academic Year	2017-18	
Subje	ct code	VAC15	Subject Name	Social Networks		
Learn	ing Outco	ome:				
Stude Web.	nts are e	nabled to analy	se online dynami	ical modelling of social network	s and the di	mensions of
Theor	y syllabus	5				
Unit	t Content Hrs					Hrs
1	Introduction to Graph Theory and Python , Analyzing Online Social Network					15
	Datasets , Power Law and Emergent Properties, Strength of Weak Ties, Homophily					
	and Soc	ial Influence, Str	ructural Balance			
2	The Stru	icture of the We	eb, Link Analysis a	nd Web Search, Link Prediction,		15
	Informa	tion Cascades,	Diffusion Behavio	or in Networks, The Small Wor	·ld	
	Phenom	ienon				
Refere	ence Boo	ks				
1	1 Networks, Crowds and Markets by David Easley and Jon Kleinberg, Cambridge University Press,					
	2010 (av	vailable for free	download).			
2	Social a	nd Economic Ne	tworks by Matthe	ew O. Jackson, Princeton Univers	ity Press, 202	10.

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			FACUL	TY OF SCIENCE			
Progr	amme	B.Sc./M.Sc.		Branch/Spec.	All		
Seme	ster	II/IV/VI		Effective from Academic Year	2018-19		
Subje	ct code	VAC16	Subject Name	Introduction to Internet of Things			
Learn	ing Outco	ome:					
Stude large Learn	Students will be able to understand the characteristics of IoT and that will make them able to produce large amounts of data. That can also be used in applications such as Artificial Intelligence and Machine Learning.						
Theor	ry syllabu:	5		<u></u>		· · ·	
Unit				Content		Hrs	
1	Introdu	ction to IoT, Sen	sing, Actuation, B	asics of Networking, Communication Pro	otocols,	15	
	Sensor	Networks, N	1achine-to-Machi	ne Communications, Interoperabilit	y in loT,		
	Introdu	ction to Arduinc	o Programming, II	ntegration of Sensors and Actuators wi	th Arduino,		
	Introdu	ction to Python	programming, In	troduction to Raspberry Pi, Implementa	tion of IOT		
	with Ra	spberry Pi					
2	Introdu	ction to SDN, SI	ON for IoT, Data	Handling and Analytics, Cloud Computi	ing, Sensor-	15	
	Cloud,	Fog Computing,	Smart Cities and	d Smart Homes, Connected Vehicles,	Smart Grid,		
	Industri	al IoT, Case Stud	ly: Agriculture, He	ealthcare, Activity Monitoring			
Refer	ence Boo	ks					
1	"The Int Anupam	ernet of Things: na C. Raman (CR	Enabling Techno C Press)	logies, Platforms, and Use Cases", by Pe	thuru Raj and	1	
2	"Interne Press)	et of Things: A H	ands-on Approacl	h", by Arshdeep Bahga and Vijay Madise	tti (Universit	ies	

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Progra	amme	B.Sc./M.Sc		Branch/Spec.	All	
Seme	ster	II/IV/VI		Effective from Academic Year	2018-19	
Subje	ct code	VAC17	Subject Name	Artificial Intelligence: Knowledge Reasoning	Representation and	
Learn	ing Outco	ome:				
Stude	nts are p	prepared to	master the langua	ges and techniques of KR that wi	ill help them to learn r	many
comp	utational ems	tasks includ	ling text interpretat	ion and cognitive robotics and to s	solve complex real-life	
Theor	y syllabus	5				
Unit				Content		Hrs
1	Introdu	ction				15
	Proposi Argume and Hilb	tional Logic nts and Pro pert Style Pro	c: Language, Sema of Systems, Rules c pofs, The Tableau M	ntics and Reasoning, Syntax and for the second seco	d Truth Values, Valid n, Axiomatic Systems ⁄lethod	
	First Or Chaining	der Logic (g, Unification	FOL): Syntax, Sema n, Forward Chaining	antics, Entailment and Models, Pr Rule Based Systems, The Rete Algo	roof Systems, Forward prithm,	
	Program	nming in a R	Rule Based Language	e, The OPS5 Expert System Shell		
	Represe Reificati Reasoni	entation in ion and Abs ng About Ch	FOL: Skolemization stract Entities, Resc nange	, Knowledge Representation, Prop ource Description Framework (RDF	perties and Categories, F), The Event Calculus:	
	Mappin Depend Theory	g Natural ency (CD) T	Language to FOL heory, Understandir	: Understanding = Fulfilling Exp ng Language, Conceptual Analysis:	ectations, Conceptual Mapping English to CD	
	Progran Depth F	nming in Lo irst Search a	gic: Deductive Retr and Efficiency Issues	rieval in Backward Chaining, Logic , Controlling Search, The Cut Opera	Programming, Prolog, tor in Prolog	
2	Theorer Refutati	m Proving i on Method	n FOL: Incompleter for FOL, Clause Forn	ness of Forward and Backward Ch n and The Resolution Rule, FOL with	aining, The Resolution n Equality, Complexity	15
	Knowle Goals, F Top Dov	dge Structu Plans and Ac wn and Botte	res: Semantic Nets ctions, Plan Applier om Up Reasoning	using Frames, Scripts, Script Appl Mechanism (PAM): Expectations a	lier Mechanism (SAM), and Recognition, PAM:	
	Ontolog Classific	gy and Des ation, A-box	cription Logics: A Reasoning, Extensi	Description Logic, Normalisation ons, ALC, Further Extensions	, Structure Matching,	
	Inherita	nce: Taxono	omies and Inheritand	ce, Beliefs, Credulous and Skeptical	Reasoning	
	Default	Reasoning:	Introduction to De	efault Reasoning, Circumscription,	Minimal Models, The	

	Event Calculus Revisited, Default Logic, Autoepistemc Logic					
	Reasoning in Multi-agent Systems: Epistemic Logic: Kripke Semantics in a Multi Agent Scenario,					
	The Muddy Children Puzzle					
Text E	Books					
1	Ronald J. Brachman, Hector J. Levesque: Knowledge Representation and Reasoning, Morgan Kaufmann, 2004.					
2	Deepak Khemani. A First Course in Artificial Intelligence, McGraw Hill Education (India), 2013.					
Refer	ence Books					
1	Schank, Roger C., Robert P. Abelson: Scripts, Plans, Goals, and Understanding: An Inquiry into Human					
	Knowledge Structures. Hillsdale, NJ: Lawrence Erlbaum, 1977.					
2	R. C. Schank and C. K. Riesbeck: Inside Computer Understanding: Five Programs Plus Miniatures,					
	Lawrence Erlbaum, 1981.					
3	Murray Shanahan: A Circumscriptive Calculus of Events. Artif. Intell. 77(2), pp. 249-284, 1995.					
4	John F. Sowa: Conceptual Structures: Information Processing in Mind and Machine, Addison Wesley					
	Publishing Company, Reading Massachusetts, 1984.					
5	John F. Sowa: Knowledge Representation: Logical, Philosophical, and Computational Foundations, Brooks/Cole, Thomson Learning, 2000.					

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Progra	amme	B.Sc./M.Sc.		Branch/Spec.	All	
Seme	ster	II/IV/VI		Effective from Academic Year	2018-19	
Subje	ct code	VAC18	Subject Name	Introduction to Machine Learning		
Learn	ing Outco	ome:				
Students are expected to design and implement machine learning solutions to classification, regression, and clustering problems; and be able to evaluate and interpret the results of the algorithms.					n, and	
Theor	y syllabu	S				
Unit				Content		Hrs
1	Introdu	ctory Topics	, Linear Regression	and Feature Selection, Linear Class	sification, Support	15
	Vector	Machines ar	nd Artificial Neural I	Networks, Bayesian Learning and Do	ecision Trees,	
	Evaluat	ion Measure	c			
	Lvaluat		3			
2	Hypoth	esis Testing,	Ensemble Method	s, Clustering, Graphical Models, Le	arning Theory and	15
	Expecta	ition Maximi	zation, Introduction	to Reinforcement Learning		
Refere	ence Boo	ks				
1	T. Hasti	e, R. Tibshira	ini, J. Friedman. The	Elements of Statistical Learning, 2e,	, 2008.	
2	Christo	pher Bishop.	Pattern Recognition	n and Machine Learning. 2e.		

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Programme B.Sc./M.Sc. Branch/Spec. All						
Seme	Semester II/IV/VI			Effective from Academic Year	2018-19	
Subje	ct code	VAC19	Subject Name	MATLAB Programming For Numeric	al Computation	
Learn	ing Outco	ome:		•		
Stude	nts are e	expected to use M	ATLAB Programm	ning for scientific computations and s	olve practical pro	blems
in Line	ear algeb	ora.				
Ineor	y syllabu	S		Contont		Hrc
Unit			<u> </u>	Content		
1	Introdu	ction to MAILAB	Programming, I	his module will introduce the stude	nts to MAILAB	4
	program	nming through	a rew example	s. Students who have used MA	ILAB are still	
	recomr	nended to do this	module, as it int	roduces MATLAB In context of now v	we use it in this	
	control	Working with file	b programming,	Array operations in MATLAB, Loops		
2	20111101					
2	Approx	imations and Erro	ors, Taylor's / Ma	aciaurin series expansion of some fu	inctions will be	4
	used to	o introduce approx	ximations and eri	rors in computational methods, Defi	ning errors and	
	precisio		reinous, fruncati	on and round-on errors, error prop	agation, Giobai	
2			S			
3	intogra	tion trade off be	and integration	, Methods of numerical differentiation	on and	4
	пцерга	B functions for in	togration will be	discussed Numerical Differentiation		
	variable	B lunctions for in	cegration will be	derivatives. Differentiation in multin	le variables	
	Newtor	-Cotes integratio	n formulae Mult	ti-step application of Trapezoidal ru		
	functio	ns for integration	in tormulae, when		IE, MATLAD	
	Tunctio	no integration			-	
4	Linear	Equations, The fo	ocus of this mod	ule is to do a quick introduction o	f most popular	3
	numeri	cal methods in lir	ear algebra, and	use of MATLAB to solve practical p	roblems, Linear	
	algebra	in MATLAB, Gau	ss Elimination, LU	J decomposition and partial pivoting	, Iterative	
_	method	ds: Gauss Siedel, S	pecial Matrices: I	ri-diagonal matrix algorithm		<u> </u>
5	Nonline	ear Equations, Al	ter introduction	to bisection rule, this module p	rimarily covers	4
	Newtor	n-Raphson metho	a and MAILAB	routines fizero and fisolve, Nonlinea	r equations in	
	single	Variable, MATLAE	s function fizero	In single variable, Fixed-point iter	ation in single	
	variable	e, Newton-Kaphso	on in single varia	iables	e and multiple	
6	Pograce	sion and Internels	ation. The focus	vill be practical wave of using linear	and nonlinear	Л
0	regress	ion and interpole	lation functions	in MATIAR Introduction Linear		4
	regress	ion and interpo		Eunctional and nonlinear regression	ieasi syuares	
	Icgress	in function) Inter	nolation in MATH	A using soline and ochin		
4 5 6	Linear numeri algebra methoo Nonline Newtor single variable variable Regress regress regress Isqnonl	Equations, The fo cal methods in lin in MATLAB, Gaus ds: Gauss Siedel, S ear Equations, Af n-Raphson metho variable, MATLAE e, Newton-Raphso es, Newton-Raphso ion and Interpola ion and interpola ion (including Isqc in function), Interp	bcus of this mod hear algebra, and ss Elimination, LL pecial Matrices: T fter introduction d and MATLAB function fzero on in single varia on in multiple varia on in multiple varia ation, The focus v lation functions urvefit function), polation in MATLA	ule is to do a quick introduction o use of MATLAB to solve practical p decomposition and partial pivoting ri-diagonal matrix algorithm to bisection rule, this module p routines fzero and fsolve, Nonlinea in single variable, Fixed-point iter ble, MATLAB function solve in singl iables will be practical ways of using linear in MATLAB, Introduction Linear Functional and nonlinear regression AB using spline and pchip	f most popular roblems, Linear , Iterative rimarily covers r equations in ation in single e and multiple r and nonlinear least squares n (including	3 4 4

7	Ordinary Differential Equations (ODE) – Part 1, Explicit ODE solving techniques in single	4
	variable will be covered in this module, Introduction to ODEs; Implicit and explicit Euler's	
	methods, Second-Order Runge-Kutta Methods, MATLAB ode45 algorithm in single variable,	
	Higher order Runge-Kutta methods, Error analysis of Runge-Kutta method	
8	Ordinary Differential Equations (ODE) – Practical aspects, This module will cover ODE solving	3
	in multiple variables, stiff systems, and practical problems. The importance of ODEs in	
	engineering is reflected by the fact that two modules are dedicated to ODEs, MATLAB ode45	
	algorithm in multiple variables, Stiff ODEs and MATLAB ode15s algorithm	
	Practical example for ODE-IVP, Solving transient PDE using Method of Lines	
Refer	ence Books	
1	MATLAB and its Applications in Engineering, Raj Kumar Bansal, Ashok Kumar Goel,	
	Manoj Kumar Sharma, Pearson.	
2	Getting started with MATLAB: A quick Introduction for scientists & engineers, Rudra Pratap	

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			FACUL	TY OF SCIENCE				
Progra	amme	B.Sc./M.Sc.		Branch/Spec.	All			
Seme	ster	II/IV/VI		Effective from Academic Year	2018-19			
Subje	ct code	VAC20	Subject Name	Vedik Mathematics				
Learni	ing Outco	ome:						
After : menta one m	After successful completion of the course, students will be able to perform complex mathematical calculations mentally and set aside their calculators. Students can invent their own methods and they are not limited to one method.							
Theor	y syllabu	S						
Unit				Content		Hrs		
1	Additio Introdu Additio	n , Subtraction, N ction to Vedic Ma n, Super-Fast Subt	Iultiplication and ths, History of Ve traction, Genius N	Division: dic Maths, Vedic Maths Formulae, Hi 1ental Multiplication Techniques, Nik	gh Speed hilam Division.	15		
2	Squares & Cubes: Squaring of numbers in patterns, Squaring numbers with any number of digits, Square root, Cubing, Square root by observation.					15		
Refere	ence Boo	ks						
1	Introdu	ctory Vedik Mathe	ematics by Bachul	bhai B. Raval, Krishnachandra Prakasł	nan			
2	Vedik G	anan kriya by Bac	hubhai B. Raval, K	rishnachandra Prakashan				

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TACULIT OF SCIENCE						
Progra	amme	B.Sc./M.Sc.		Branch/Spec.	All	
Seme	ster	II/IV/VI		Effective from Academic Year	2020-21	
Subje	ct code	VAC21	Subject Name	Women's Grooming and Professior	al Etiquettes	
Learn	ing Out	come:	L	1		
1. Lea	rners w	ill be familiar with	n appropriate dre	ss and grooming in a formal setup		
2. Lea	rners w	vill understand the	e three compone	nts of professional etiquettes – app	earance, commun	ication
and b	ehavior					
3. Wil	l be able	e to make first po	sitive impression	in professional settings		
Theor	y syllab	us				
Unit				Content		Hrs
1	Introd	uction				3
1	Ftique	tte and communi	cation			5
	Do ma	nners matter?	cation			
	How to	o make an impres	sion?			
	The pe	ersonal touch				
2	Groon	ning				6
	Forma	l dressing				
	Casual	dressing				
	Access	ories for men				
	Footw	ear				
	Gener	al appearance				
	What	to wear for differ	ent occasions?			
	Dealin	g with body odor				
	Dealin	g with bad breath	1			
	Dealin	g with hair				
2	Body	periume				1
J	Facial	evoressions				4
	Eve co	ntact				
	Postur	e				
	Hand g	gestures				
	Hand s	shakes				
	Persor	nal space				
4	Busine	ess card etiquette	s			2
	Carryi	ng business cards				
	Exchar	nging business cai	rds			
	Receiv	ing and storing b	usiness cards			

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5	E-mail etiquettes Drafting business email Understanding the use of cc, bcc and replying to all options Effective caption line/subject line Effective salutations and complimentary close	3
6	Cellular phone etiquettes Voice mail etiquette Telephone etiquetteone on one Conversations Telephone etiquette conference calls and transferring calls	4
7	Netiquettes-manners in online world Opening and closing Tone of messages Courtesy Usage of fonts Social media, Zoom and google meet etiquette	4
8	Dining etiquettes at business meetings Napkin etiquettes Drinking soup Navigating the place setting American and continental styles of eating Seating arrangements Cutlery etiquettes Posture and behavior Passing the food Do's and Don'ts	4
	Total	30hrs

FACULTY OF SCIENCE						
Progra	imme	B.Sc./M.Sc.		Branch/Spec.	All	
Semes	ter	II/IV/VI		Effective from Academic Year	2020-21	
Subjec	t code	VAC22	Subject Name	Men's Grooming and Professional B	Etiquettes	
Learni	ng Out	come:	,		•	
1. Lear	ners w	ill be familiar with	n appropriate dres	ss and grooming in a formal setup		
2. Lear	rners w	ill understand the	e three compone	nts of professional etiquettes – appe	earance, commun	ication
and be	ehavior					
3. Will	be able	e to make first po	sitive impression	in professional settings		
Theory	/ svllab	115				
Topics				Content		Hrs
1	Intro	du ati a a				2
1	Etique	auction	ication			3
	Dom	anners matter?	lication			
	How	to make an impre	ssion?			
	The p	ersonal touch	551011.			
2	Groo	ming				6
	Form	al dressing				
	Casua	al dressing				
	Acces	sories for men				
	Footv	vear				
	Gene	ral appearance				
	What	to wear for differ	rent occasions?			
	Deali	ng with body odo	r			
	Deali	ng with bad breat	h			
	Deali	ng with hair				
2	Using	perfume				4
3	Body	language				4
	FVAC	ontact				
	Postu	re				
	Hand	gestures				
	Hand	shakes				
	Perso	nal space				
4	Busin	ess card etiquett	es			2
	Carry	ing business cards	5			
	Excha	inging business ca	ards			
	Recei	ving and storing b	ousiness cards			
5	E-ma	il etiquettes				3
	Draft	ing business emai				
	Unde	rstanding the use	of cc, bcc and rep	plying to all options		
	Effect	live caption line/s	ubject line			
6	Collect	ive salutations an	to complimentary	ciose		Л
0	Voice	mail etiquette	les			4
	Telen	hone etiquette	one on one			
	Conv	ersations	one on one			
	Telen	hone etiquette	conference calls a	and transferring calls		
7	Netio	uettes-manners i	in online world			4
	Open	ing and closing				

	Tone of messages	
	Courtesy	
	Usage of fonts	
	Social media, Zoom and google meet etiquette	
8	Dining etiquettes at business meetings	4
	Napkin etiquettes	
	Drinking soup	
	Navigating the place setting	
	American and continental styles of eating	
	Seating arrangements	
	Cutlery etiquettes	
	Posture and behavior	
	Passing the food	
	Do's and Don'ts	
	Tot	al 30
		hrs

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TACOLITION SCIENCE							
Progra	amme	nme B.Sc./M.Sc.		Branch/Spec.	All		
Seme	ster	II/IV/VI		Effective from Academic Year	2020-21		
Subje	Subject code VAC23 Subject Name		IELTS				
Learni	ing Outo	come:					
1. Lea	1. Learners will be familiar with appropriate dress and grooming in a formal setup						
2. Lea	rners w	ill understand th	e three compone	nts of professional etiquettes – appe	earance, commun	ication	
and b	ehavior						
3. Wil	3. Will be able to make first positive impression in professional settings						
Theory syllabus							
Unit	Content Hrs					Hrs	
1	Introduction to the basic structure of IELTS 1						
2	IELTS listening test concept and its various question types, explanation and practice 7						
3	IELTS reading test concept and its various question types, explanation and practice7				7		
4	IELTS writing test concept and its various question types, explanation and practice7				7		
5	IELTS listening test concept and its various question types, explanation and practice 7				7		
6	Final test				1		

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Progra	amme	Β.	Sc./M.Sc.		Branch/Spec.	All	
Seme	ster	II/	'IV/VI		Effective from Academic Year	Year 2020-21	
Subje	ject code VAC24 Subject Name Communication for Professional Success and Employ (CPSE)		ability				
Learn	ing Outo	com	ie:				
1. Lea	rners w	ill b	e familiar with	n appropriate dres	ss and grooming in a formal setup		
2. Lea	rners w	vill u	understand the	e three componer	nts of professional etiquettes – appe	earance, commun	ication
and b	ehavior						
3. Wil	l be able	e to	make first po	sitive impression i	in professional settings		
Theor	y syllab	us					
Unit					Content		Hrs
1	Icebreaking, Significance and need for effective communication				2		
2	Definition, Characteristics, Skills and guide to effective					2	
	communication						
3	Presentation skills					2	
4	Group discussion					2	
5	Debate					2	
6	Extempore					2	
7	Enhancing listening skills				2		
8	Effective reading				2		
9	Effective writing skills				2		
10	Developing speaking skills				2		
11	Interview skills				2		
12	Small talk					2	
13	Corporate Communication					2	
14	Context based speaking				2		
15	Social Communication skills				2		
	[Total 30 hr						30 hrs

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	FACULTY OF SCIENCE					
Programme B.Sc./M.Sc.		Branch/Spec.	All			
Seme	Semester II/IV/VI		Effective from Academic Year	2020-21		
Subje	Subject code VAC25 Subject Name Innovation Startup and Entrepreneurship Program			urship Program		
Loarni	ing Out	ome:		(Induction Program)		
1. Ide	entify e	ntrepreneurial i	deas and create	innovative business models to e	effectively design	value
propo	sitions,	assemble and lea	id a well-compror	nised team, pursue big ideas that rea	Illy matter to cust	omers,
doma	in, and	GDP of the cou	ntry, and craft a	financial model that minimizes ris	ks and maximize	s your
succes	ss. Iore the	marketing of inn	ovations and gain	understanding of short-term finance	e alternatives.	
Theor	y syllab	us				
Topic				Content		Hrs
S 1						2
1	About	the Program, Sch	emes & Grants Fo	or Startups, Foundation of		2
	Entrep	reneurship				
2	Unlock your Creativity 2					2
3	Prepare for your Launchpad				2	
4	Coffee with Entrepreneurs and Team building Workshop					2
5	⁵ Business is a career- In Conversation with Business Mentor					2
6	Meet the Motivators					2
7	detail Project Report & How to Prepare Pitch Deck					2
8	8 Moderating Session - I Hands On Training					2
9	Feasibility Analysis - Review of An Idea				2	
10	Marketing Management				2	
11	How to build an Online Presence for a Business				2	
12	Exclusive Session: Building something big beyond the imagination				2	
13	13 Unlock your Super brain- Workshop			2		
14	14 Start-up which can create social impact- Social Entrepreneurship				2	
15	15 Final Day Presentation				2	
					Total	30 hrs

Ganpat University Centre for Health and Applied Sciences

VALUE ADDITION PROGAMS - "Programs that Enhance the Skill"

Objective: The value-added courses offered beyond the working hours of the institute. The value-added courses are a blend of theory classes/experimental learning/project-based learning/activity-based learning. The students have option to choose the courses according to their desires and inclinations. To provide value added course in order to equip them to enhance their curriculum and gain knowledge which will enable them to face the formidable challenges of the future.

Following Value Added Courses offered by Institute:

Sr. No.	Name of Value-Added Courses Offered	Course Code	Year of Introducti on
1	Personality Development	CVC01	2018-19
2	Functional Foods and Nutraceuticals	CVC02	2019-20
3	Effective Writing and Presentation Skill	CVC03	2019-20
4	Bhagwat Geeta	UHV01 (DYSBG)	2020-21

Contact Hours: 30 Hours or more

Course Faculty: Expert faculty from Ganpat University, outside university & Industry.

Eligibility: Courses are open for all CHAS students.

Registration: Submit the registration form duly filled by participants. Final list of participants is to be displayed on the notice board.

General Timing: 10.00 am – 1.00 pm on working Saturday of University.



Clay Modeling Workshop

The most easily recognized form of sculpting is clay modeling, that is, the creation of a 3dimensional piece of art typically using some type of clay: Plastilina (oilbased clay), self-hardening (non-firing) clay, ceramic/pottery clay, wax or other polymer-based material.



13 February, 2019

Faculty of Architecture and Planning, Ganpat University, Kherva-384012

www.gnu.fadp.ac.in 8460652622

CREATIVE IMPRESSION





O9.00am ONWARDS Faculty fo Architecture, Design & Planning, Ganpat University, Kherva-384012

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Architecture, Design & Planning

Cynotype Workshop

Ganpat



Brief

The cyanotype process uses a mixture of iron compounds, which oxidize when exposed to UV light and are washed in water to create Prussian Blue images. The technique was invented in 1841 by Sir JohnHerschel and was popularised by photographer and botanist Anna Atkins.

Expert: Rajarshi Smart

Date: 1st and 2nd JUNE 2022 **Time**: 9.00 AM onwards.

Location: Faculty of Architecture, Design and Planning, Ganpat University, Kherva-384012

INFRO: www.gnu.fadp.ac.in MOB: +91-8460652622



Ganpat University Faculty of Architecture, Design & Planning



FERRO CEMENT

Ferrocement is a construction material consisting of wire meshes and cement mortar. Applications of ferrocement in construction is vast due to the low self weight, lack of skilled workers, no need of framework etc. It was developed by P.L.Nervi, an Italian architect in 1940.

12 FEBRUARY 2019 7:00PM FADP, GANPAT UNIVERSITY, KHERVA-384012

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September 22, 2021 Time: 10:00 AM - 1:00 PM DAY 1

Green Sketching Campaign

Registration (https://tinyurl.com/WGBWC

DAY 2 September 23, 2021 Time: 10:00 AM - 1:00 PM



Guest of Honour Ar. Jayesh Hariyani Co-Chair, IGBC Ahmedabad Chapter **Chairman & Managing Director INI Design Studio**

Expert Lectures

Sustainable Architecture

Green Building Practice

Ar. Anup Naik **Director - Architecture** Urban Frame, Space Matrix Group Bengaluru

10:15 AM - 11:15 AM

Mr. Anup Naik serves as a Director of Space Matrix Design Consultants Pte. td Mr Naik is extremely nassionate

Venue **Conference Hall New MBA Building**

Join with Charles https://us02web.zoom.us/j/81252139957

Ar. Arpan Johari Principal Architect of AW Design, Ahmedabad

11:30 AM - 12:30 PM

Arpan Johari is a practicing Architect with keen interest in Sustainability and Urbanism. He is the founder and



LIGHT WORKSHOP

Metal sculpting, or alloy casting, is the process of creating objects of metal by pouring liquid metal into molds to form them in sculptures or other items. Copper, brass, bronze, and aluminum are the most common materials poured into molds. Making a metal sculpture is relatively easy and inexpensive.

14 February 2019

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Faculty of Architecture, Design & Planning

In continuation of World Architecture Day celebration..

LINOCUT WORKSHOP

"Linocut, also called linoleum cut, type of print made from a sheet of linoleum into which a design has been cut in relief. This process of printmaking is similar to woodcut, but, since linoleum lacks a grain, linocuts can yield a greater variety of effects than woodcuts can."



Time: 9AM Onwards Date: 9th Oct 2021 to 10th Oct 2021 Venue: FADP, New MBA Building, Ganpat University-Kherva

RSVP: Nirmit Oza +91-8460652622 Tapan Patel +91-9662128811 Vivek Patva +91-9409320005 Ganpat Vidhyanagar, Mehsana-Gozariya Highway PO-384012, North Gujarat, INDIA Email: info@ganpatuniversity.ac.in Toll Free No.:1800 233 12345
Architecture, Design & Planning niversitv METAL

Faculty of

Ganpat

WORKSHOP

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Souvenir Design

13 AUGUST 2020

FACULTY OF ARCHITECTURE, DESIGN & PLANNING, GANPAT UNIVERSITY, KHERVA-384012

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mURAL WORKSHOP

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