# E.G.S.PILLAYENGINEERINGCOLLEGE

# (Autonomous)

Approved byAICTE,New Delhi|Affiliated to AnnaUniversity, Chennai AccreditedbyNAAC with "A"Grade|Accredited byNBA (CSE, EEE, MECH, ECE, CIVIL, IT)

NAGAPATTINAM-611002



# **B.E. Civil Engineering** FullTime Curriculum and Syllabus

First Year – First Semester

Course	Courso	т	т	D	C	Maximum Marks				
Code	Name	L	1	ſ	C	CA	ES	Total		
Theory Cou	rse									
1901MA101	Engineering Mathematics – I (Matrices and Calculus)	3	1	0	4	40	60	100		
1901PH101	Introduction to Mechanics	3	0	3	4	50	50	100		
1901GEX01	Basic Electrical and Electronics Engineering	3	0	0	3	40	60	100		
1901GEX02	Engineering Graphics	2	0	2	3	50	50	100		
Laboratory Course										
1901GEX51	CAD Lab	0	0	2	1	50	50	100		
1901GEX52	Basic Electrical and Electronics Engineering Lab	0	0	2	1	50	50	100		
1901PHX51	Engineering Physics Lab	0	0	2	1	50	50	100		
1901HS151	Communication Skills	0	0	2	1	100	0	100		
		11	1	13	18	430	370	800		

L – Lecture | T – Tutorial | P – Practical | CA – Continuous Assessment | ES – End Semester

	<b>ENGINEERING MATHEMATICS - I</b>	L	Т	Р	С
1901MA101	(MATRICES AND CALCULUS)				
	(for Civil Engineering )	3	2	U	4
Aim of the c	ourse: This course focuses on developing a solid understanding of the	e metho	ods u	sed in	1 the
application of	f differentiation, Eigen values, and Eigen vectors and using Cay	ley-Han	nilton	theo	orem,
transformation	of quadratic form into canonical form through orthogonal transformat	tion, be	comin	ıg fan	niliar
with the idea	s of vector calculus, which are necessary for problems in all engine	ering d	liscip	lines,	and
developing an	understanding of the common methods of complex variable theory so as t	o: Addi	tional	ly, it l	nelps
the learner und	lerstand how transforms may be used to establish a new domain where the	ie issue	under	•	
investigation is	s simpler to manage.				
PREREQUIS	ITES: Basic Knowledge In Matices And Determinants, Series, Integration	And V	ector	Calcu	lus.
MODULE-I N	MATRICES				
Algebra of ma	trices, Inverse and rank of a matrix: Eigenvalues and eigenvectors; Diagor	nalizatio	n of n	natrice	es;
Cayley-Hamilt	on Theorem, Orthoganal transformation and quadratic to canonical forms.				
MODULE-II	SEQUENCES AND SERIES				
Convergence of	of sequence and series - Tests for convergence - Power series - Taylor's se	ries, Ser	ies fo	r	
exponential -	rigonometric and logarithm functions.				
MODULE-III	DIFFERENTIAL CALCULUS				
Curvature in C	artesian Co-ordinates – Centre and radius of curvature – Circle of curvatur	re – Evo	olutes	and	
involutes					
MODULE-IV	INTEGRAL CALCULUS				
Double integra	tion – Cartesian and polar cordianates – Change the order of integration –	Applica	ations	: Area	ofa
curved surface	using double integral – Triple integration in Cartesian co-ordiantes – Volu	ume as t	riple i	integr	al
MODULE-V	VECTOR CALCULUS				
Gradient, Div	ergene and Curl – Diretioanal derivate – Irrotational and Solendial vector f	ields – Y	Vecto	r	
integration: Gr	een's Theorem in a plane, Gauss divergence theorem and Stoke's theorem	(exclud	ing pr	oofs)	_
Applications o	f the above theorems to find surface area of a closed region and volume of	cube ar	ıd	, i	
parallelepiped	- -				
For further re	eading:				
nptel.ac.in/c	ourses/111105035, www.nptelvideos.in/2012/11/Mathematics	<u>s.html</u>			
COURSE OU	TCOMES				
After completi	on of the course, the student will be able to				
CO1: Apply th	e nature of the matrix using Orthogonal Transformation & Calculate the ir	iverse ar	nd pos	sitive	
powers of	of a square matrix				
CO2: Relate th	e nature of series using comparison, Ratio, Leibnitz tests				
CO3: Develop	the evolutes and envelopes of given curves by means of radius and centre	of curva	iture		
CO4: Solve the	e area and volume of a curve using double and triple integration.				
CO5: Make us	e of vector concepts to estimate the area, surface and volume of planes.				
TEXT / REF	ERENCE BOOKS:				
1. Veerarajan	T., Engineering Mathematics for first year, Tata McGraw-Hill, New Delh	i, 2018.			
2. Ramana B	V., Higher Engineering Mathematics, Tata McGraw Hill New Delhi, 11th	Reprint	, 2010	).	
3. B.S. Grew	al, Higher Engineering Mathematics, Khanna Publishers, 35th Edition, 200	10.			
4. P. Kandasa	amy, K. Thilagavathy, K. Gunavathi, Numerical Methods, S. Chand & Cor	npany, 2	2nd Eo	dition	,
Reprint 20	12.				
5. B.S. Grew	al, Higher Engineering Mathematics, Khanna Publishers, 35th Edition,201	0.			
6. N.P. Bali a	6. N.P. Bali and Manish Goyal, A text book of Engineering Mathematics, Laxmi Publications, Reprint, 2010.			.0.	

	INTRODUCTION TO MECHANICS	I.	Т	Р	С
1901PH101	(for Civil and Mechanical Engineering)	3	0	0	$\frac{\overline{3}}{3}$
Aim of the cours	e: To make students understand and apply the knowledge in 1	nechan	ics fo	or	-
engineering appli	cations				
PREREQUISITE	ES:				
Introductio	on to mechanics				
Forces in N	ature; Newton's laws and its completeness in describing particle r	notion;	Solvi	ng	
Newton's	equations of motion in polar coordinates and related problems				
Vector med	chanics of particles		1		
Elliptical	ces: Conservation of Angular Momentum; Energy equation and e	energy o	nagra	ums;	
Five-term a	cceleration formula — Centripetal and Coriolis accelerations:	s Annlics	tions	· We	ather
systems. 1	Foucault pendulum: Harmonic oscillator: Damped harmonic motic	n	uions		aunor
Rigid body	mechanics				
Definition a	nd motion of a rigid body in the plane; Rotation in the plane; Kin	ematics	in a	coord	inate
system ro	tating and translating in the plane; Angular momentum about a p	point of	a rig	id bo	dy in
planar mo	tion;				
Euler's law	s of motion, their independence from Newton's laws, and their	necessi	ty in	descr	ibing
rigid body	y motion; Examples; Introduction to three-dimensional rigid body	motion	ı — (a	a) An	gular
velocity v	ector, and its rate of change and (b) Moment of inertia tensor				
Free body d	jagrams with examples on modelling of typical supports and joint	s: Cond	ition	for	
equilibriu	m in three- and two- dimensions: Friction: limiting and non-limiting $f$	s, cond	s	101	
equilienta		ing cube			
COURSE OUTC	OMES				
Upon completion	of this course, students will be able to				
CO1: Apply funda	mental concepts of kinematics and kinetics of particles to the anal	ysis of	simpl	e,	
practical problems					
CO2: Extend all of	t concepts of linear kinetics to systems in general plane motion	: NT-	4	· · 1	c
CO3: Apply basic	aynamics concepts of force, momentum, work and energy to appl	y in Ne	wton	s law	'S OI
CO4: Apply Euler	's Equation and considering energy of a system in general plane m	otion a	nd th	e	
work of couples a	nd moments of forces	iotion, t			
CO5: Apply the co	oncepts of friction and conditions of equilibrium in two and three d	limensi	ons.		
	· ·				
<b>REFERENCES</b> (	BOOKS):				
(i) Engineering M	echanics, 2nd ed. — MK Harbola				
(11) Introduction to	Mechanics — MK Verma				
(iii) An introduction $(iii)$ Principles of M	Mechanics — D Kieppner & K Kolenkow				
(v) Mechanics —	IP Den Hartog				
(vi) Engineering N	Archanics - Dynamics, 7th ed JL Meriam				
(vii) Mechanical V	/ibrations — JP Den Hartog				
(viii) Theory of Vi	brations with Applications — WT Thomson				
(ix) An Introducti	on to the Mechanics of Solids, 2nd ed. with SI Units - SH Cr	andall,	NC I	Dahl &	& TJ
Lardner					
(x) Engineering M	lechanics: Statics, 7th ed. — JL Meriam				
(x1)Engineering Mechanics of Solids — EP Popov					
1 https://ww	www.edv.org/course/introduction_mechanics_part_1_ricev_phys_1	01 1v			
$\frac{1. \frac{11005.7/W}{2}}{2} https://les$	ww.cux.org/course/PHYS101	<u>01-1X</u>			
3. https://ww	ww.slideshare.net/KhanSaif2/1-introduction-to-mechanics-7150	03843			
<b>F F F F F F F F F F</b>		-			

1001CEV01	BASIC ELECTRICAL AND ELECTRONICS ENGINEERING	L	Т	Р	С
1901GEAUI	(Common for all UG programmes, except BE- EEE)		0	0	3
Aim of the cou	rse: To study about the fundamentals of Electrical, Electronics and Commun	ication ]	Engir	neering	
PREREQUISI	TES:				
COURSE CON	VTENTS				
Introduction to	<b>DC and AC circuits:</b> Ohms law - Kirchhoff's laws - Mesh analysis - Nodal and	nalysis -	Gene	eration of	of AC
waveforms - Ar	alysis of R-L, R-C, R-L-C circuits - Introduction to three phase systems - Types of	of conne	ctions	•	
Electrical Ma	chines: DC Generator, DC Motor, Transformer, Induction Motor: Working p	rinciple	, cons	struction	n and
applications.					
Measuring ins	truments: Classification of instruments; Voltmeter, Ammeter, Wattmeter, Energy	y meter,	Multi	imeter,	CRO:
Principles and o	peration.				
Semiconductor	• devices: V-I characteristics of PN junction diode and Zener diode; Rectifiers	- Half w	vave a	ind full	wave
rectifiers; BJT -	configurations; Amplifiers & Oscillators: classification, operation and applicatio	ns; SCR	: Con	structio	n and
V-I characterist	ics; Basic power converters (Block diagram approach only).		•		
Digital system	is: Boolean algebra - Reduction of Boolean expressions - De-Morgan's i	theorem	- L	ogic ga	ates -
Implementation	of Boolean expressions.		1		D11.
Communicatio	<b>n Systems:</b> Model of communication system - Analog and digital, wired and	Wireles	ss cha	innei -	BIOCK
diagram of vari	bus communication systems - Microwave, satellite, optical fiber and cellular mobil	le syster	n. Visios		
staircasa fluor	y and wiring: Safety measures in electrical system - Safety devices - types of w	inng - V	w iring	f gonor	ories-
transmission an	d distribution of power (Single line diagram)	ing - iay	outo	i genera	ation,
	COMES				
Upon completio	on of this course, students will be able to				
1 Solve very sit	nnle problems in DC and AC circuits				
2 Explain the c	onstruction and principle of operation of DC and AC machines				
3 Describe the o	opperation of simple electrical measuring instruments				
4.Elucidate the	characteristics of diode. Zener diode. BJT. SCR and their applications				
5.Implement Bo	polean expressions using logic gates				
6.Explain the optimized	peration of functional blocks of various communication systems				
7. Summarize th	e electrical safety systems and electrical wiring procedures				
REFERENCE	S (BOOKS):				
1. Smarajit	Ghosh, -Fundamentals of Electrical and Electronics	Eng	gineer	ingl,	$2^{nd}$
Edition, PH	I Learning, 2010.	-		-	
2. R. Muthusu	bramaniam, S. Salaivahanan and K.A. Mureleedharan, -Basic Electrical Electro	onics an	d Cor	nputer	
Engineering	gl, Tata McGraw Hill, 2004.				
3. D.P. Kotha	i and I.J. Nagrath, -Theory and Problems of Basic Electrical Engineering, PHI le	arning, l	New I	Delhi, 20	004.
4. J.B. Gupta,	4. J.B. Gupta, —Fundamentals of Electrical Engineering and Electronicsl, S.K. Kataria and Sons, Reprint 2012 Edition.				n.
5. R.L. Boyles	5. R.L. Boylestad and L. Nashelsky, -Electronic Devices and Circuit Theoryl, Pearson, 11th Edition, 2013.				
6. George Kennedy and Bernard Davis, -Kennedy's Electronic communication Systems <sup>I</sup> , McGraw Hill Education, 5 <sup>th</sup>				n, $5^{\text{th}}$	
Edition, 20	11.				
7. Donald P.	Leach, Albert Paul Malvino and Goutam Saha, -Digital Principles and Ap	plication	ns∥, N	<b>I</b> cGraw	-Hill
Education, 8 <sup>th</sup> Edition, 2014.					
REFE	RENCES (WEBSITES):				
1. <u>https://i</u>	nptel.ac.in/courses/108108076/				
2. <u>https://i</u>	nptel.ac.in/downloads/108105053/				
3. <u>https://i</u>	nptel.ac.in/courses/11/103063/				
4. <u>https://</u> 1	npte1.ac.1n/courses/11/10/2059/				

1001 (155/00	ENCINEERING CRAPHICS	L	Т	Р	С
1901GEX02	(Common to all B.E./B.Tech. Programmes)	2	0	2	3
MODULE I	CONCEPTS AND CONVENTIONS (Not for Examination)				
Importance of g	raphics in engineering applications – Use of drafting instrument	ts = B	[S conv	vention	s and
specifications – S	Size layout and folding of drawing sheets $-$ Lettering and dimension	ning		cition	s and
	PLANE CURVES AND FREE HAND SKETCHING	inng.		91	Jours
Basic Geometric	al constructions. Curves used in engineering practices: Conics.	- Con	structio	n of e	llinse
parabola and hyp	erbola by eccentricity method – Construction of cycloid – construction	ction of	involu	tes of s	auare
and circle – Drav	ving of tangents and normal to the above curves.				1
Visualization co	ncepts and Free Hand sketching: Visualization principles -F	Represe	ntation	of T	hree-
Dimensional obj	ects - Layout of views- Free hand sketching of multiple view	s from	n pictor	ial vie	ws of
Objects.	PROJECTION OF POINTS, LINES AND PLANE SURFACE	S		91	Iours
Orthographic pro	viection- principles-Principal Planes-First angle projection-projecti	on of r	oints.	Proiecti	ion of
straight lines (on	ly First angle projections) inclined to both the principal planes - De	etermin	ation of	true le	engths
and true inclinati	ons by rotating line method and traces. Projection of planes (polyg	onal ar	d circu	lar surf	aces)
inclined to both t	he principal planes by rotating object method	onur un	la enea	iui buii	uccs)
MODULE IV	PROJECTION OF SOLIDS			91	lours
Projection of sim	ble solids like prisms, pyramids, cylinder and cone when the axis is inc	lined to	one of	the prir	ncipal
planes by rotating	object method.		0110 01	une prin	io pui
MODULE V	PROJECTION OF SECTIONED SOLIDS AND DEVELOPM	ENT (	)F	9 H	Iours
	SURFACES				
Sectioning of abo	ve solids in simple vertical position when the cutting plane is incline	d to the	one of	the prir	ncipal
planes and perper	ndicular to the other – obtaining true shape of section. Development of	of latera	al surfac	es of si	imple
and sectioned solids – Prisms, pyramids cylinders and cones.					
MODULE VI	ISOMETRIC AND PERSPECTIVE PROJECTIONS	11.1	1.	9 H	ours
Principles of isor	netric projection – isometric scale – isometric projections of simple	SOLIDS a	and trui	icated s	solids
miscellaneous pr	oblems Perspective projection of simple solids-Prisms pyramids a	and cyli	inders h	v visu	al rav
method.			ai iuj		
TOTAL: 45 HOURS			OURS		
COURSE OUT	COURSE OUTCOMES:				
On the successfu	l completion of the course, students will be able to				
CO1: Perform fre	e hand sketching of basic geometrical constructions and multiple v	iews of	object	5.	
CO2: Do orthogr	aphic projection of lines and plane surfaces.				
CO3: Draw proje	ctions and solids and development of surfaces.				
CO4: Prepare iso	metric and perspective sections of simple solids.				
CO5: Demonstra	te computer aided drafting				
REFERENCES					
1. Gopalak	rishna K.R., —Engineering Drawing (Vol. I&II combined), Subhas	Stores	, Banga	lore,20	16.
2. Luzzade	r, Warren J. and Duff, John M., —Fundamentals of Engineering Drav	wing w	ith an ir	troduc	tion
to Intera of India	ctive Computer Graphics for Design and Production, Eastern Econo Pyt. Ltd. New Delhi, 2005.	omy Ed	ition, P	rentice	Hall
3. Shah M.	B., and Rana B.C., –Engineering Drawing, Pearson, 2nd Edition, 2	015.			
4. Venugor	al K. and Prabhu Raja V., -Engineering Graphics∥, New Age Interr	national	(P) Lin	nited, 2	2017.
5. Natrajan	K.V., -A text book of Engineering GraphicsI, Dhanalakshmi Public	shers, C	Chennai	, 2015.	
6. Basant A Limited	agarwal and Agarwal C.M., –Engineering Drawing, Tata McGraw New Delhi, 2008.	Hill Pu	blishing	, Comp	any
7. Bhatt N	D. and Panchal V.M., -Engineering Drawing, Charotar Publish	ing Ho	ouse, 50	Oth Edi	tion,
2016.					

#### 1901GEX51 CAD (COMPUTER AIDED DRAFTING) LAB L T P C

#### **List of Experiments:**

Basics commands of a CAD software- two-dimensional drawing, editing, layering and dimensioning - coordinate Systems-Drawing practice - orthographic views of simple solids using CAD software.

1. Study of capabilities of software for Drafting and Modeling – Coordinate systems (absolute,

relative, polar, etc.) - Creation of simple figures like polygon and general multi-line figures.

2. Drawing of a Title Block with necessary text and projection symbol.

3. Drawing of curves like parabola, spiral, involute using B-spline or cubic spline.

4. Drawing of front view and top view of simple solids like prism, pyramid, cylinder, cone, etc, and dimensioning.

5. Drawing front view, top view and side view of objects from the given pictorial views (eg. V-block, Base of a mixie, Simple stool, Objects with hole and curves).

6. Drawing sectional views of prism, pyramid, cylinder, cone, etc,

7. Drawing isometric projection of simple objects.

8. Creation of 3-D models of simple objects and obtaining 2-D multi-view drawings from 3-D model.

Total: 30 Hours

#### **References:**

1. N.D. Bhatt, Machine Drawing, Charotar Publishing House Pvt. Ltd., 2014.

2. P.S. Gill, A Textbook of Machine Drawing, Katson books, 2013.

3. R.K. Dhawan, A Textbook of Machine Drawing, S. Chand, 2012.

4. K.C. John, Textbook of Machine Drawing, PHI Learning Pvt. Ltd., 2009.

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1901GEX52	BASIC ELECTRICAL AND ELECTRONICS	L	Т	Р	С
	ENGINEERINGLABORATORY	0	0	2	1
	(Common for all UG programmes)				
Aim of the cours	e : To apply the fundamentals of Electrical and Electronics Engineering				
PREREQUISIT	ES:				
1. Experiments	related to verification of Ohm's law and Kirchhoff's laws				
2. Experiments	involving logic gates				
3. Fan and ligh	t control using regulators				
4. Design of 6	V regulated power supply				
5. Energy cons	ervation demonstration experiment using energy meter				
6. Waveform g	eneration and calculation of rms and average values				
7. IC 555 and	C 741 based experiments				
8. Experiments	in earthing				
9. Staircase wi	ring and residential building wiring				
10. Speed control	ol of DC shunt motor				
COURSE OUT	COMES				
Upon completion	of this course, students will be able to				
CO1:	Design and analyze electronic circuits				
CO2: Test digital logic gates					
CO3:	Control lights and speed of motors				
CO4:	Measure electrical parameters using instruments				
CO5:	Generate waveforms				
CO6:	Construct different wiring schemes.				
REFERENCES	(BOOKS):				
1. Edward Hu	ghes, — Electrical Technology, I, Pearson Education				
2. D.P. Kotha	ri and Nagrath — Basic Electronics, MH Education 2013.				
3. Paul Scher	z and Simon Monk —Practical Electronics for inventors Mc Graw Hill Publication	ons 20	13.		
REFERI	ENCES (WEBSITES):				
1. https://nptel.	ac.in/courses/122106025/				

# 1901PHX51ENGINEERING PHYSICS LABLT00

#### List of Experiments:

- 1. Determination of wavelength of various colours of mercury spectrum using Laser grating
- 2. Determination of velocity of liquids using ultrasonic interferometer
- 3. Determine the dispersive power of a prism using spectrometer
- 4. Determine the unknown resistance of the given wire using Carey-Foster's Bridge
- 5. Determine the band gap of the given semiconductor
- 6. Determine the acceptance angle and particle size using Laser
- 7. Torsional pendulum Rigidity modulus of a steel wire
- 8. Thickness of a thin wire Air Wedge
- 9. Measurement of Young"s modulus Uniform and Non-uniform bending
- 10. Thermal conductivity –Lee"s Disc method

#### Total: 30 Hours

Р

2

С

1

#### **References:**

- 1. "Practical Physics", R.K. Shukla, Anchal Srivastava, New age international (2011)
- 2. "B.Sc. Practical Physics", C.L Arora, S. Chand &Co. (2012)

1001HSV51	COMMUNICATION SKILLS LAB	L	Т	Р	C
1901115A51	(Common for all B.E./B.Tech. Programme)	0	0	2	1

**Course Overview:**English- being the foremost global language has its domination in internationally sensitive domains such as science and technology, business and commercial relation, education and diplomatic relationships, politics and administration and so on. It is the language of corporate India, a passport for better career, better pay, and advanced knowledge and for communication with the entire world. In higher education, English is the prevalent prestigious language. Careers in any area of business communication or within the government, or in science and technology require fluency in English

The basic idea behind offering English as a practical subject at the undergraduate level is to acquaint students with a language that enjoys currency as a lingua franca of the globe. For prospective engineers nothing could be more useful or productive than being able to reach out to the world of technology. In the ELCS lab the students are trained in Communicative English Skills, phonetics, word accent, word stress, rhythm and intonation, making effective oral presentations - both extempore and Prepared- seminars, group discussions, presenting techniques of writing, role play, telephonic skills, asking and giving directions, information transfer , debates, description of person, place, objects etc; . The lab encourages students to work in a group, engage in peer-reviews and inculcate team spirit through various exercises on grammar, vocabulary, listening and pronunciation games, etc

# **Objectives** :

1. To facilitate computer-aided multi-media instruction enabling individualized and independent language learning

2. To bring about a consistent accent and intelligibility in their pronunciation of English by providing an opportunity for practice in speaking.

3. To train students to use language appropriately for interviews, group discussion and public speaking 4. To help the students to cultivate the habit of reading passages from the computer monitor, thus provides them the required facility to face computer-based competitive exams such as GRE, TOEFL, GMAT etc.

5. To train them to face interviews with confidence and enable them to prepare resume with cover letter. 6. To prepare them to use communicative language and participate in public speaking.

7. To initiate them into greater use of the computer in power point presentation preparation, report Writing and e-mail writing etc.

8. To initiate them into greater use of the computer in power point presentation preparation, report Writing and e-mail writing etc.

9. To expose the Students to participate in group discussions, debates with ease.

#### List of Exercises :

Ι	Activities on Fundamentals of Listening and Inter-personal Communication	6 Hours		
	Listening to conversation, listening to technical presentation- listening to online video confer	rencing		
	,interviews and webinars -starting a conversation - responding appropriately and relevantly -	- using		
	appropriate body language - Role Play in different situations & Discourse Skills- using visuals	5.		
II	Activities on Reading Comprehension	6 Hours		
	General Vs Local comprehension- reading for facts- guessing meanings from context-Se	canning-		
	skimming and inferring meaning- critical reading & effective googling- TOFEL, IELTS-reading	ng online		
	journals.			
III	Activities on Writing Skills	6 Hours		
	Structure and presentation of different types of writing - letter writing - Resume writing-			
	e- correspondence - Proposal writing - Technical report writing - Portfolio writing - planning for			
	writing - improving one's writing.			
IV	Activities on Presentation Skills	6 Hours		
	Oral presentations (individual and group) through JAM sessions - presentation on online	platform		
	(webinars, online meeting) - seminars -PPTs and written presentations through posters- projects-			
	(webliars, online meeting) - seminars -FFTs and written presentations through posters-	projects-		
	report- e-mails- assignments etc creative and critical thinking.	projects-		

Dynamics of group discussion, intervention, summarizing, modulation of voice, body language, relevance, fluency and organization of ideas and rubrics for evaluation-Concept and process, preinterview planning, opening strategies, answering strategies, interview through tele-conference & videoconferencing and Mock Interviews-Time management-stress management –paralinguistic features-Multiple intelligences – emotional intelligence – spiritual quotient (ethics) – intercultural communication – creative and critical.

#### TOTAL: 30 HOURS

# **Course Outcomes (COs):**

## After successful completion of the course, students will be able to

**CO1:** Compose grammatically correct sentences for oral as well as written communication. **CO2:** Interpret perfectly after paying attention to an audio on any theme.

**CO3**: Organize formal presentations effectively.

**CO4**: Explain the content of any written or visual material.

**CO5**: Generate technical and non-technical documents with appropriate contents and context. **CO6**: Monitor, analyse and adjust their own communication.

#### **REFERENCES:**

1. Raman, Meenakshi and Sangeetha Sharma, —Technical Communication: Principles and
Practicel, Oxford University Press, New Delhi, 2011.
2. Sudha Rani, D, —Advanced Communication Skills Laboratory Manual ,
Pearson Education 2011.
3. Paul V. Anderson ,-Technical Communication ,. Cengage Learning pvt. Ltd. New Delhi, 2007.
4. —English Vocabulary in Use series <sup>I</sup> , Cambridge University Press 2008.
5. —Management Shapers Series , Universities Press (India) Pvt Ltd., Himayatnagar,
Hyderabad 2008.
6. Rizvi and Ashraf M., -Effective Technical Communication, Tata McGrawHill,
New Delhi, 2005.
7. Jones, D, -The Pronunciation of English <sup>I</sup> , CUP, . Cambridge, 2002.