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 – Second Semester

Course	Course Name	L	Т	Р	С	Maximum Marks			
Code	Course manie	L	1	I	C	CA	ES	Total	
	Theory Course								
1901MA201	Engineering Mathematics – II (Differential equations)	3	2	0	4	40	60	100	
1901CH201	Water Technology and Green Chemistry	3	0	0	3	40	60	100	
1901GEX03	Programming for Problem Solving	3	0	0	3	40	60	100	
1901ENX01	English for Engineers	2	0	0	2	40	60	100	
1901GE201	Engineering Exploration	2	0	0	2	40	60	100	
Laboratory Course									
1901CHX51	Engineering Chemistry Lab	0	0	2	1	50	50	100	
1901GE253	Basic Workshop Lab	0	0	2	1	50	50	100	
1901GEX52	Computer Programming Lab	0	0	2	1	50	50	100	
1901HSX51	Communication Skill Lab	0	0	2	1	50	50	100	
1901GE252	Engineering Intelligence - II	0	0	2	1	100	0	100	

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

B.E. – Civil Engineering | E.G.S. Pillay Engineering College (Autonomous) | Regulations 2019 Approved in IV Academic Council Meeting held on 25.05.2019

1901MA201	ENGINEERING MATHEMATICS –II	L	Т	Р	C
	(Differential equations)	3	2	0	4
	the course: This course focuses on acquiring sound knowledge of				
canonical fo problems in theory so as	of differentiation, eigen values and eigen vectors and using transformation orm through orthogonal transformation acquaint with the concepts of multi- all engineering disciplines, develop an understanding of the standard techn s to enable the student to apply them with confidence, in application a obotic Automations, Computer Vision Problems, Simulations and also mak	ple inte niques o reas su	egrals, of Lin uch as	neede ear alg Com	d foi gebra putei
the purpose	of using transforms to create a new domain in which it is easier to han				
being invest	Igated. TES: Matices and determinants, differentiation, differential equations				
-	ORDINARY DIFFERENTIAL EQUATIONS OF HIGHER ORDERS	2			
	c linear differential equations with variable coefficients, method of v		n of		
parameters.	initial anterential equations with variable coefficients, method of v	ununo	ii oi		
.	COMPLEX VARIABLE – DIFFERENTIATION				
Cauchy-Rien Conformal m	nann equations, analytic functions, harmonic functions, finding harm happings, Mobius transformations I:COMPLEX VARIABLE – INTEGRATION	nonic o	conjug	gate;	
	grals, Cauchy Integral formula (without proof), Taylor's series, zero	s of at	alutio		
	igularities, Laurent's series; Residues, Cauchy Residue theorem (wi				
Evaluation of	f definite integral involving sine and cosine, Evaluation of certain in	-			
MODULE IV	omwich contour. SOLUTION OF ALGEBRAIC AND TRANSCENDENTAL EQUAT				
	lgebraic and transcendental equations – Newton-Raphson method. F				
	using Newton's forward and backward difference formulae. Interpo			ınequ	al
	grange's formulae. Numerical Differentiation (first two derivatives)		erical		
	Trapezoidal rule and Simpson's 1/3rd and 3/8 th rules (single integra SOLUTION OF ORDINARY DIFFERENTIAL EQUATIONS	1)			
	Ferential equations: Taylor's series, Euler and modified Euler's method	ods R	ungek	Zutta	
	urth order for solving first order Equation.Milne's and Adam's pred				
For Further 1	Peoding •				
	ac.in/courses/111/105/111105134/				
COURSE OU					
	ion of this course, students can able to				
CO1: Identify	the solutions to second order linear homogeneous differential equations with the transformation of real plane into				
CO3: Determi CO4: Utilize	ne complex contour integrals by using fundamental theorem, Cauchy theor numerical differentiation and integration whenever and wherever ro				no
	p the appropriate numerical technique and interpret the results for in rdinary differential equations.	nitial v	values	prot	lem
REFERENCE B		200.5			
	szig, Advanced Engineering Mathematics, 9th Edition, John Wiley & Sons, e and R. C. DiPrima, Elementary Differential Equations and Boundary Value			Qth	
2. W. E. Boyc Edition, Wiley	• • •		nems,	7UI	
3.S. L. Ross, I	Differential Equations, 3rd Ed., Wiley India, 1984. Ington, An Introduction to Ordinary Differential Equations, Prentice Hall Ind	dia 190	95		
	Drdinary Differential Equations, Dover Publications, 1958.	, 17,			
6.G.F. Simmo 7.J. W. Brown	ns and S.G. Krantz, Differential Equations, Tata McGraw Hill, 2007. and R. V. Churchill, Complex Variables and Applications, 7th Ed., McGra		, 2004	·.	
9.N.P. Bali and	C., Engineering Mathematics for first year, Tata McGraw-Hill, New Delhi, d Manish Goyal, A text book of Engineering Mathematics, Laxmi Publicati	ions, Re	eprint,	2010.	
	al, Higher Engineering Mathematics, Khanna Publishers, 35th Edition, 2000 my, K. Thilagavathy, K. Gunavathi, Numerical Methods, S. Chand & Com		2nd Ed	ition,	
10 g g g					

12.S.S. Sastry, Introductory methods of numerical analysis, PHI, 4th Edition, 2005.

1901CH201	WATER TECHNOLOGY AND GREEN CHEMISTRY	L	Т	Р	С	
	(for CIVIL ENGINEERING)	3	0	0	3	
	mparting knowledge on the principles of Aqua chemistry, structural polyals and metals for constructions with their applications.	ymer, lig	ht weig	ht mate	erials,	
	Knowledge of chemistry in higher secondary level					
MODULE-I AQUA						
	mical speciation in the environment and major pollutants in the environment	ent (in atı	nospher	re and		
	examples mercury, cadmium, arsenic and fluoride)- Aqua chemistry -Sou					
	Degree of hardness and its estimation (EDTA method)- Water Quality Par					
1	ing of hard water -external treatment -demineralization, Zeolite process in					
	osmosis- Domestic water treatment -disinfection of water -Physical and c			es appli	ed to	
	treatmentmixing, coagulation, sedimentation, filtration, and chemical pr	ecipitatio	on.			
	CTURAL POLYMERS			***		
	Structural Plastics and Composites- Polymer Membranes - Coatings -					
Fibres (frp)	and Facade Materials - Glazed Brick - Photo Catalytic Cement - Acid E	tched Co	opper a	ia Com	posite	
_	ITWEIGHT MATERIALS					
	s -Neoprene, Bridge pads, thermocole, Smart and Intelligent Materials – S	Special f	eatures	-Case s	tudies	
	ons of smart and Intelligent Materials. Petroleum products, Bituminous					
ash - properties and it	0					
	STRUCTIONAL MATERIALS					
Constructional Mater	ials- Refractories: definition, classification, properties -Manufacture of a	lumina, 1	nagnesi	te and s	silicon	
	nent- manufacture and properties - setting and hardening of cement, sp	ecial cer	nent- w	aterpro	of and	
	ube concrete -properties and uses.					
	ALS FOR CONSTRUCTIONS					
	ons- Basic composition of mild steel, High yield deformed steel (Tor), Sta					
	Corrosion and lubricant. Welding and soldering of ferrous and non-ferrous	metals-	Alumin	ium, Bi	rass,	
Copper and Titanium						
	the course, the student will be able to					
•	qua chemistry and domestic water treatment process					
	olymeric materials in construction work.					
	ightweight Materials and its application					
wave equatio						
A	arious types of construction materials and its properties.					
	ble of metals for Constructions					
TEXT BOOKS:						
IEAI DOORS:						
1. 1 Dara.S, Ur	nare.S, "Engineering Chemistry", S. Chand & Company Ltd., New Delhi 2	2010.				
	B., "Engineering Chemistry", Tata McGraw-Hill Publishing Company, Ltd		elhi 201	0.		
	R., Viswanathan N.V. and Jayadev Sreedhar, "Polymer Science", New A					
4. Kumar Meht	a P. and Paulo J. M. Monteiro, (2014), Concrete: Microstructure, Properti	es and M	aterials	, 4th Ed	ition,	
	l, New Delhi.					
	., (2017), Concrete Technology, S. Chand and Company Ltd, New Delhi.					
	6. Neville. A. M, (2012), Properties of Concrete, Pearson, New Delhi.					
7. ACI 211.1-9 Concrete, US	1 Reapproved 2009, Standard Practice for selecting Proportions for Nor	nai, Hea	vyweig	nt, and	wass	
REFERENCES						
	v.ccdc.cam.ac.uk/solutions/csd-system/components/csd/					
 nttps://www.ccdc.cam.ac.uk/solutions/csd-system/components/csd/ onlinelibrary.wiley.com/doi/10.1002/9780470661345.smc107/pdf 						
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PROGRAMMING FOR PROBLEM SOLVING (Common for all B.E./B.Tech Programme)

1901GEX03

COURSE OBJECTIVES:

1.To prepare students to comprehend the fundamental concepts

2. To demonstrate fine grained operations in number system

3.To gain exposure in programming language using C

4. To develop programming skills using the fundamentals and basics of C Language

INTODUCTION TO PROGRAMMING **MODULE I**

Components of Computers and its Classifications- Problem Solving Techniques - Algorithm- Flowchart-Pseudo code - Program-Compilation - Execution

MODULE II

BASICS OF C PROGRAMMING

Structure of C program - C programming: Data Types - Storage classes - Constants - Enumeration Constants - Keywords - Operators: Precedence and Associativity - Expressions - Input/output statements - Decision making statements - Switch statement - Looping statements - Pre-processor directives.

MODULE III ARRAYS AND STRINGS

Introduction to Arrays: Declaration, Initialization - One dimensional array - Two dimensional arrays -Example Program: Matrix Operations - String operations

MODULE IV FUNCTIONS AND POINTERS

Introduction to functions: Function prototype, function definition, function call, Built-in functions – Recursion - Example Program - Pointers - Pointer operators - Pointer arithmetic - Arrays and pointers - Array of pointers - Example Program: Sorting of names - Parameter passing: Pass by value, Pass by reference -Example Program: Swapping of two numbers and changing the value of a variable using pass by reference

MODULE V STRUCTURES & FILE PROCESSING

Structure - Nested structures - Pointer and Structures - Array of structures - Example Program using structures and pointers – Dynamic memory allocation -Files – Types - File processing: Sequential access, Random access -Command line arguments

FURTHER READING:

Object Oriented Programming Approach.

COURSE OUTCOMES:

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

CO1: Describe basic concepts of computers

CO2: Paraphrase the operations of number system

CO3: Describe about basic concepts of C-Language

CO4: Understand the code reusability with the help of user defined functions

CO5: Analyze the structure concept, union, file management and preprocessor in C language

REFERENCES:

- 1. Paul Deitel and Harvey Deitel, -C How to Program, Seventh edition, Pearson Publication
- 2. Juneja, B. L and Anita Seth, —Programming in Cl, CENGAGE Learning India pvt. Ltd., 2011
- 3. Pradip Dey, Manas Ghosh, —Fundamentals of Computing and Programming in Cl, First Edition, Oxford University Press, 2009.
- 4. Anita Goel and Ajay Mittal, -Computer Fundamentals and Programming in Cl, Dorling Kindersley (India) Pvt. Ltd., Pearson Education in South Asia, 2011.
- 5. Byron S. Gottfried, "Schaum's Outline of Theory and Problems of Programming with C", McGraw-Hill Education, 1996.

9 Hours

9 Hours

9 Hours

С

3

9 Hours

9 Hours

TOTAL: 45 HOURS

ENGLISH FOR ENGINEERS Т Р 1901ENX01 L 3 0 0 (Common for all B.E./B.Tech. Programme)

FOCUS ON LANGUAGE (Vocabulary and Grammar) **MODULE I**

Vocabulary -The Concept of Word Formation - Prefixes- Suffixes- Synonyms - Antonyms - Grammar -Articles- Preposition- Adjective-Adverb-Connectives -Tenses (present, past & future) - Conditional Clauses -Active voice -passive voice and Impersonal passive voice - Wh- Questions.

LISTENING SKILLS **MODULE II**

Listening-Types of Listening -listening to short or longer texts- listening and Note taking- -formal and informal conversations- telephonic etiquettes- narratives from different sources. - Correlative verbal and nonverbal communication - listening to panel members (how to response to panel members after listening panel members) – listening to facing online interviews (or) interviews on video conferencing mode - listening webinars.

MODULE III SPEAKING SKILL

Speaking - Stress and intonation -Communication skills- Role of ICT in Communication, -Process of communication- oral presentation skills- verbal and non verbal communication-individual and group presentations- impromptu presentation- public speaking- Group discussion- speaking to the panel members (online interviews, video conferencing, online meeting and webinars.

MODULE IV READING SKILLS

Reading-Intensive Reading -Predicting the content -Comprehending general and technical articles -Cloze reading - Inductive reading- Short narrative and descriptions from newspapers - Skimming and scanning-reading and interpretation-critical reading interpreting and transferring graphical information- sequencing of sentencesanalytical reading on various Projects.

MODULE V WRITING SKILLS

Writing- Precise writing -Summarizing- Interpreting visual texts (pie chart, bar chart, picture, advertisements etc., - Proposal writing (launching new units or department in a institution or industry & to get loan from bank) -Report writing (accident, progress, project, survey, Industrial visit)- job applicatione-mail drafting-letter writing (permission, accepting and decaling)- e.mail drafting instructions – recommendations -checklist- uses of Print and electronic media (internet, fax, mobile, interactive video and teleconferencing, computer) e-governance.

TOTAL: 45 HOURS

REFERENCES:

- 1. Raman, Meenakshi and Sangeetha Sharma, "Technical Communication: Principles and Practice", Oxford University Press, New Delhi, 2011.
- Rizvi and Ashraf M., "Effective Technical Communication", Tata McGraw-Hill, New Delhi, 2005. 2.
- 3. G. Radhakrishna Pillai, "English for Success", Central Institute of English and Foreign Languages", Emerald Publishers ,Hyderabad, 2003

4. Jones, D, "The Pronunciation of English", CUP, . Cambridge, 2002.

Course Outcomes

- CO1 Compose grammatically correct sentences for oral as well as written communication.
- Interpret perfectly after paying attention to an audio on any theme CO₂
- CO3 Organize formal presentations effectively.
- CO₄ Explain the content of any written or visual material.
- Generate technical and non-technical documents with appropriate contents and context. CO5

9 Hours

С

3

9 Hours

9 Hours

9 Hours

9 Hours

1901GE201	ENGINEERING EXPLORATION	L	Т	Р	С
		2	0	0	2

COURSE OBJECTIVES:

• Build mindsets & foundations essential for designers

• Learn about the Human-Centered Design methodology and understand their real-world applications

- Use Design Thinking for problem solving methodology for investigating ill-defined problems.
- Undergo several design challenges and work towards the final design challenge

• Apply Design Thinking on the following Streams to Project Stream 1: Electronics, Robotics, IOT and Sensors Project Stream 2: Computer Science and IT Applications Project Stream 3: Mechanical and Electrical tools

Project Stream4: Eco-friendly solutions for waste management, infrastructure, safety, alternative energy sources, Agriculture, Environmental science and other fields of engineering.

HOW TO PURSUE THE PROJECT WORK?

• The first part will be learning-based-masking students to embrace the methodology by exploring all the phases of design thinking through the wallet/ bag challenge and podcasts.

• The second part will be more discussion-based and will focus on building some necessary skills as designers and learning about complementary material for human- centered design.

• The class will then divide into teams and they will be working with one another for about 2 - 3 weeks. These teams and design challenges will be the basis for the final project and final presentation to be presented.

• The teams start with Design Challenge and go through all the phases more in depth from coming up with the right question to empathizing to ideating to prototyping and to testing.

• Outside of class, students will also be gathering the requirements, identifying the challenges, usability, importance etc

• At the end, Students are required to submit the final reports, and will be evaluated by the faculty.

TASKS TO BE DONE:

Task 1: Everyone is a Designer

- Understand class objectives & harness the designer mindset
- Task 2: The Wallet/Bag Challenge and Podcast
- Gain a quick introduction to the design thinking methodology
- Go through all stages of the methodology through a simple design challenge

• Podcast: Observe, Listen and Engage with the surrounding environment and identify a design challenge.

Task 3: Teams & Problems

- Start Design Challenge and learn about teams & problems through this
- Foster team collaboration, find inspiration from the environment and learn how to identify

problems

Task 4: Empathizing

- Continue Design Challenge and learn empathy
- Learn techniques on how to empathize with users
- Go to the field and interview people in their environments
- Submit Activity Card

Task 5: Ideating

- Continue Design Challenge and learn how to brainstorm effectively
- Encourage exploration and foster spaces for brainstorming
- Submit Activity Card

Task 6: Prototyping

- Continue Design Challenge and learn how to create effective prototypes
- Build tangible models and use them as communication tools
- Start giving constructive feedback to classmates and teammates
- Submit Activity Card

Task 7: Testing

• Finish Design Challenge and iterate prototypes and ideas through user feedback

- Evolve ideas and prototypes through user feedback and constructive criticism
- Get peer feedback on individual and group performance
- Submit Activity Card Task 8:
- Final Report Submission and Presentation

• Method of Evaluation: Same as Mini project category. Project exhibition may be conducted. **REFERENCES:**

1. Tom Kelly, The Art of Innovation: Lessons in Creativity From IDEO, America's Leading Design Firm (Profile Books, 2002)

2. Tim Brown, Change by Design: How Design Thinking Transforms Organizations and Inspires Innovation (HarperBusiness, 2009)

3. Jeanne Liedtka, Randy Salzman, and Daisy Azer, Design Thinking for the Greater Good: Innovation in the Social Sector (Columbia Business School Publishing, 2017)

OTHER USEFUL DESIGN THINKING FRAMEWORKS AND METHODOLOGIES:

Human-Centered Design Toolkit (IDEO); https://www.ideo.com/post/design-kit
 Design Thinking Boot Camp Bootleg(Stanford D-School);

https://dschool.stanford.edu/resources/the-bootcamp-bootleg

3. Collective Action Toolkit (frogdesign); https://www.frogdesign.com/wpcontent/uploads/2016/03/CAT_2.0_English.pdf

4. Design Thinking for Educators (IDEO); https://designthinkingforeducators.com/

1001011271	ENGINEERING CHEMISTRY LAB	L	Т	Р	С
1901CHX51		0	0	2	1
and its applica of water quali	urse: Engineering Chemistry laboratory course is designed to provi tion to the first year engineering students. The course includes the ty chemistry, identification of acidic and alkaline nature of water, m	study o	of app	licati	
	and explaining the principles behind each experiments.				
	cal Experiments				
 Determi Estimati Estimati Estimati Corrosid Determi Conduct Estimati Compari Determi Determi Determi Determi Adsorpti 	nation of total, temporary & permanent hardness of water by EDTA nation of strength of given hydrochloric acid using pH meter on of iron content of the given solution using potentiometer on of sodium present in water using flame photometer on experiment – weight loss method nation of molecular weight of a polymer by viscometry method ometric titration of strong acid Vs strong Base on of dissolved oxygen in a water sample/sewage by Winklers meth ison of alkalinities of the given water samples nation of concentration of unknown colored solution using spectroph nation of ferrous iron in cement by Spectrophotometry method ion of acetic acid on charcoal nation the flash point and fire point of a given oil using Pensky mar	iod. hotom	eter	cup	
apparatu 15 Determi	s nation the calorific value of solid fuels				
	nation the structural of the compound using chemo software.				
COURSE OU					
	ion of the course, the student will be able to				
	the hardness and alkalinity of given water sample				
CO2: Find the	amount and percentage of iron in unknown sample using EMF and	l photo	ometri	ic	
methods CO3: Determi conductometri	ne the amount of strong acid present in the given sample using PH ic methods	metric	c and		
	ne the amount of dissolved oxygen and heavy metal present in the g	iven s	ample	e	
	ne the molecular weight of the given polymer				
 2. "Engineerir 3. Vogel"s Te 	XS: al organic chemistry, Daniel R. Palleros, John Wiley & Sons, Inc., N ng Chemistry", Jain & Jain, 15 th edition, Dhanpat Rai Publishing cor xtbook of practical organic chemistry, Furniss B.S. Hannaford A.J, .BS Singapore (1994).	npany	, New	v Dell	
	pore (1994). Kolthoff I.M., Sandell E.B. et al Mcmillan, Madras 198	30.			

1901GE253	BASIC WORKSHOP AND MANUFACTURING PRACTICES LAB (Common to Civil, EEE and MECH.)	L	Т	Р	С
		0	0	2	1
List of Exper	iments				
-	g of simple object in sheet metal using suitable tools.(Example: Dust Pan, Recone making)	ctang	ular	tray	
2. Prepare	e V (or) Half round (or) Square (or) Dovetail joint from the given mild Steel f	lat.			
	tion of a simple component using thin and thick plates using arc welding. ple: Butt , Lap and T - Joints)				
,	a simple component using carpentry power tools.(Example: Cross Lap, T-La	p and	d Do	ove	
5. Constru	act a household pipe line connections using pipes, Tee joint, four way joint, el Gate valve and Taps.	bow	, uni	on,	

TOTAL: 30 Hours

REFERENCES: Lab manual

1901GEX52

COMPUTER PROGRAMMING LAB

L T P C 0 0 2 1

(Common for all B.E./B.Tech. Programme)

List of Experiments:

- 1. Working with word and style sheets
- 2. Write a C program to implement basic concepts
- 3. Write a C program to implement Decision Making and Branching statements
- 4. Write a C program to implement looping statements
- 5. Write a C program to implement Arrays
- 6. Write a C program to implement Strings
- 7. Write a C program to implement pointers
- 8. Write a C program to implement Structures
- 9. Write a C program to work with files in C

References:

Total: 45 Hours

- 1. Paul Deitel and Harvey Deitel, —C How to Program^I, Seventh edition, Pearson Publication
- 2. Juneja, B. L and Anita Seth, —Programming in Cl, CENGAGE Learning India pvt. Ltd., 2011
- 3. Pradip Dey, Manas Ghosh, —Fundamentals of Computing and Programming in Cl, First Edition, Oxford University Press, 2009.
- 4. Anita Goel and Ajay Mittal, —Computer Fundamentals and Programming in Cl, Dorling Kindersley (India) Pvt. Ltd., Pearson Education in South Asia, 2011.
- 5. Byron S. Gottfried, "Schaum's Outline of Theory and Problems of Programming with C",McGraw-Hill Education, 1996.

1901HSX51		_		_
1701115/151	COMMUNICATION SKILLS LAB	L	Т	Р
	(Common to all B.E./B.Tech. Programme)	0	0	2

List of Experiments:

1. Activities on Fundamentals of Listening and Inter-personal Communication (6)

Listening to conversation, listening to technical presentation-listening to online video conferencing interviews and webinars -starting a conversation - responding appropriately and relevantly - using appropriate body language - Role Play in different situations & Discourse Skills- using visuals.

2. Activities on Reading Comprehension

General Vs Local comprehension- reading for facts- guessing meanings from context-Scanning- skimming and inferring meaning- critical reading & effective googling-TOFEL, IELTS-reading online journals.

3. Activities on Writing Skills

Structure and presentation of different types of writing - letter writing - Resume writing-ecorrespondence - Proposal writing - Technical report writing - Portfolio writing - planning for writing - improving one's writing.

4. Activities on Presentation Skills

Oral presentations (individual and group) through JAM sessions - presentation on online platform (webinars, online meeting) - seminars -PPTs and written presentations through posters- projects- report- e-mails- assignments etc.- creative and critical thinking.

5. Activities on Soft Skills

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

References:

- 1. Raman, Meenakshi and Sangeetha Sharma, "Technical Communication: Principles and Practice", 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 pyt. Ltd. New Delhi, 2007.

- 4. "English Vocabulary in Use series", 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.

Jones, D, "The Pronunciation of English", CUP, . Cambridge, 2002.

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(6)

Total:

30 Hours

(6)

С 1

1901GE252	ENGINEERING INTELLIGENCE II	L T P C 0 0 2 1
Prerequisite: Engine	ering Intelligence - I	
MODULE I VOC	CABULARY BULIDING	6 Hours
Parts of Grammar-SV	A- Art of Writing- word building activities	
MODULEII COM	IMUNICATION WORKSHOP	6 Hours
Story Telling- Newsp	aper Reading-Extempore.	
MODULEIII INTI	ERPERSONAL SKILLS	6 Hours
Personality Developm	nent - Creativity and innovation –Critical Thinking	g and Problem Solving – Work
Ethics-Technical Skil	l Vs Interpersonal Skills	
MODULEIV LEA	DERSHIP& EMPLOYABILITY SKILLS	6 Hours
Levels of Leadership	Making of leader-Types of leadership-Transactio	ns Vs Transformational
Leadership – Exercis	es - Industry Expectations & Career Opportunities	- Recruitment patterns.
MODULE V RES	UME BUILDING	6 Hours
Importance of Resum	e-Resume Preparation - introducing onself	
-		TOTAL: 30 HOURS
Course Outcomes:		
On the successful con	npletion of the course, students will be able to	
CO1: Understand var	ious vocabulary building activites	
CO2: Use various co	mmunication skill workshop for reading and writir	ng.
CO3: Apply interpers	sonal skill to motivate creating and innovating skill	ls
CO4: Apply various	eadership and employability skill to get career opp	portunities

CO5: Prepare resume with necessary components

REFERENCES:

1. Barun K. Mitra; (2011), "Personality Development & Soft Skills", First Edition; Oxfor Publishers.

2. Raymond Murphy, Essential English Grammar in Use, Cambridge University press, New Delhi, Third Edition , 2007.

3. Arun Sharma and Meenakshi Upadhyav, How to Prepare for Verbal Ability and Reading Comprehension for CAT, McGrawHill Publication, Seventh Edition 2017.