SEMESTER I											
9		Ŧ	T	D		Maxi	mum M	Category			
Course Code	Course Name	L	T	P	С	CA	ES	Total			
Theory Cour	se		•								
1901MA104	Engineering Mathematics –I (Linear Algebra, Calculus and Partial differentiation)	3	1	0	4	40	60	100	BSC		
1901CH103	Chemistry for Biomedical Engineering	3	0	0	3	40	60	100	BSC		
1901GEX03	Programming for Problem Solving	3	0	0	3	40	60	100	ESC		
1901ENX01	English for Engineers	2	0	0	2	40	60	100	HSSC		
Laboratory (
1901GEX52	Computer Programming Laboratory	0	0	2	1	50	50	100	BSC		
1901GE151	Engineering Intelligence I	0	0	2	1	100	0	100	HSSC		
1901CHX51	Engineering Chemistry Laboratory	0	0	2	1	50	50	100	BSC		
1901HSX51	Communication Skill Laboratory	0	0	2	1	50	50	100	HSSC		
	Total	11	1	8	16	410	390	800			

Batch: 2019-2023 (Admitted from 2019 onwards)

SEMESTER II											
Course	Course Nome	т	т	р	C	May	kimum	Category			
Code	Course Name	L	I	ſ	C	CA	ES	Total			
Theory Cours	e										
1901MA204	Engineering Mathematics–II (Calculus, Ordinary Differential Equations and Complex Variable)	3	2	0	4	40	60	100	BSC		
1901PH202	Semiconductor Physics and Optoelectronics	3	0	0	3	40	60	100	ESC		
1901GEX01	Basic Electrical and Electronics Engineering	3	0	0	3	40	60	100	ESC		
1901GEX02	Engineering Graphics	2	0	2	3	50	50	100	ESC		
1901GE201	Engineering Exploration	2	0	0	2	100	0	100	ESC		
Laboratory C	ourse		•		•						
1901GE254	Computer Hardware and IT Essentials Laboratory	0	0	2	1	50	50	100	ESC		
1901GE252	Engineering Intelligence - II	0	0	2	1	100	0	100	HSSC		
1901GEX51	CAD Laboratory	0	0	2	1	50	50	100	ESC		
1901GEX53	Basic Electrical and Electronics Engineering Laboratory	0	0	2	1	50	50	100	ESC		
1901PHX51	Engineering Physics Laboratory	0	0	2	1	50	50	100	ESC		
	Total	13	2	12	20	570	430	1000			

	SEME	STEI	RIII							
	C. N.			D	G	Maximum Marks			Catagowy	
Course Code	Course Name	L	T	P	C	CI A	ES	Total	Category	
Theory Course	e									
1901MA301	Engineering Mathematics III (Linear Algebra and Vector Calculus)	3	2	0	4	40	60	100	BSC	
1902CS306	Object Oriented Programming and Data Structure	3	0	0	3	40	60	100	ESC	
1902BM301	Fundamentals of Biochemistry	3	0	0	3	40	60	100	PC	
1902BM302	Bio medical Circuits and Networks	3	2	0	4	40	60	100	PC	
1902BM303	Biosensors and Measurements	3	0	0	3	40	60	100	PC	
1902BM304	Human Anatomy and Physiology	3	0	0	3	40	60	100	PC	
Laboratory C	ourse		1	1				[]		
1902BM351	Devices and Circuits Laboratory	0	0	2	1	50	50	100	PC	
1902BM352	Biochemistry and Human Physiology Laboratory	0	0	2	1	50	50	100	PC	
1902CS351	C++ and Data Structures Laboratory	0	0	2	1	50	50	100	ESC	
1904GE351	Life Skills: Verbal Ability	0	0	2	1	100	-	100	EEC	
Audit Course								-		
1901MCX02	Constitution of India	2	0	0	0	100	0	100	MC	
	Total 20 4 8 24 590 510 1100									
	SEME	STE	R IV							
Course Code	Course Name	L	т	Р	C	M	Maximum Marks		Category	
course coue				-	C	CI				
Theory Course						A	ES	Total		
Theory Course	e					A	ES	Total		
1901MA401	e Probability Theory and Stochastic Processes	3	2	0	4	A 40	ES 60	Total 100	BSC	
1901MA401 1902BM401	Probability Theory and Stochastic Processes Biomechanics	3	2	0	4	A 40 40	ES 60 60	Total 100 100	BSC PC	
1901MA401 1902BM401 1902BM402	Probability Theory and Stochastic Processes Biomechanics Basics of Pathology and Microbiology	3 3 3	2 0 0	0 0 0	4 3 3	A 40 40 40	ES 60 60 60	Total 100 100 100	BSC PC PC	
1901MA401 1902BM401 1902BM402 1902BM403	Probability Theory and Stochastic Processes Biomechanics Basics of Pathology and Microbiology Control Systems	3 3 3 3	2 0 0 0	0 0 0	4 3 3 3	A 40 40 40 40 40	ES 60 60 60 60	Total 100 100 100 100 100	BSC PC PC PC	
1901MA401 1902BM401 1902BM402 1902BM403 1902BM404	Probability Theory and Stochastic Processes Biomechanics Basics of Pathology and Microbiology Control Systems Biomedical Instrumentation	3 3 3 3 3	2 0 0 0 0	0 0 0 0 0	4 3 3 3 3	A 40 40 40 40 40	ES 60 60 60 60	Total 100 100 100 100 100 100	BSC PC PC PC PC PC	
1901MA401 1902BM401 1902BM402 1902BM403 1902BM404 1902BM405	Probability Theory and Stochastic Processes Biomechanics Basics of Pathology and Microbiology Control Systems Biomedical Instrumentation Digital Electronics and Integrated Circuits	3 3 3 3 3 3 3 3	2 0 0 0 0 0	0 0 0 0 0 0	4 3 3 3 3 3 3	A 40 40 40 40 40 40 40 40 40	ES 60 60 60 60 60 60	Total 100 100 100 100 100 100 100 100	BSC PC PC PC PC PC PC	
1901MA401 1902BM401 1902BM402 1902BM403 1902BM404 1902BM405 Laboratory C	Probability Theory and Stochastic Processes Biomechanics Basics of Pathology and Microbiology Control Systems Biomedical Instrumentation Digital Electronics and Integrated Circuits Ourse	3 3 3 3 3 3	2 0 0 0 0 0	0 0 0 0 0 0	4 3 3 3 3 3	A 40 40 40 40 40 40 40	ES 60 60 60 60 60	Total 100 100 100 100 100 100 100 100	BSC PC PC PC PC PC	
1901MA401 1902BM401 1902BM402 1902BM403 1902BM404 1902BM405 Laboratory C 1902BM451	Probability Theory and Stochastic Processes Biomechanics Basics of Pathology and Microbiology Control Systems Biomedical Instrumentation Digital Electronics and Integrated Circuits Ourse Pathology and Microbiology Laboratory	3 3 3 3 3 3 3 0	2 0 0 0 0 0	0 0 0 0 0 0 2	4 3 3 3 3 3 1	A 40 40 40 40 40 40 50	ES 60 60 60 60 60 60 50	Total 100 100 100 100 100 100 100 100 100 100	BSC PC PC PC PC PC PC	
1901MA401 1902BM401 1902BM402 1902BM403 1902BM404 1902BM405 Laboratory C 1902BM451	Probability Theory and Stochastic Processes Biomechanics Basics of Pathology and Microbiology Control Systems Biomedical Instrumentation Digital Electronics and Integrated Circuits Ourse Pathology and Microbiology Laboratory Biomedical Instrumentation Laboratory	3 3 3 3 3 3 3 0 0	2 0 0 0 0 0 0	0 0 0 0 0 0 2 2	4 3 3 3 3 1 1	A 40 40 40 40 40 40 50 50	ES 60 60 60 60 60 60 50 50	Total 100 100 100 100 100 100 100 100 100	BSC PC PC PC PC PC PC PC PC	
1901MA401 1902BM401 1902BM402 1902BM403 1902BM404 1902BM405 Laboratory C 1902BM451 1902BM452 1902BM453	Probability Theory and Stochastic Processes Biomechanics Basics of Pathology and Microbiology Control Systems Biomedical Instrumentation Digital Electronics and Integrated Circuits Ourse Pathology and Microbiology Laboratory Biomedical Instrumentation Laboratory Analog and Digital Integrated Circuits Laboratory	3 3 3 3 3 3 3 0 0 0 0	2 0 0 0 0 0 0	0 0 0 0 0 2 2 2 2	4 3 3 3 3 1 1 1	A 40 40 40 40 40 40 50 50 50	60 60 60 60 60 60 60 50 50	Total 100 100 100 100 100 100 100 100 100 100 100 100 100	BSC PC PC PC PC PC PC PC PC PC PC	

Audit Course									
1901MCX01	Environmental Science	2	0	0	0	100	0	100	MC
Total			2	8	23	490	510	1100	

Humanities and Social Science(HSS)

1901HSX51

COMMUNICATION SKILLS LAB	L	Т	Р	C
(Common to all B.E./B.Tech. Programme)	0	0	2	1

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 - Resumewritinge- correspondence - 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.

Total: 30 Hours

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 Manuall, Pearson Education 2011.
- 3. Paul V. Anderson ,-Technical Communication ,. Cengage Learning pvt. 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^{II}, Tata McGrawHill, New Delhi, 2005.
- 7. Jones, D, -The Pronunciation of English^I, CUP, . Cambridge,2002.

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	Engineering Scien	ce(ES)				
1901GEX01 I	ASIC ELECTRICAL AND ELECTRONIC	CS ENGINEERING	L	Т	Р	С
(common for all UG programmes, except Bl	E- EEE)	3	0	0	3
Aim of the cour	e: To study about the fundamentals of Elec	ctrical, Electronics and	Comm	unicati	on Eng	gineering
PREREQUISI	ES:					
COURSE CON	ENTS					
Introduction to	DC and AC circuits: Ohms law - Kirchhoff's	s laws - Mesh analysis - I	Nodal a	nalysis	- Gene	eration of
AC waveforms	Analysis of R-L, R-C, R-L-C circuits - Introd	luction to three phase syst	ems - 7	Гуреs o	f conne	ections.
Electrical Macl	nes: DC Generator, DC Motor, Transformer,	, Induction Motor: Worki	ng prin	nciple, d	onstru	ction and
applications.						
Measuring inst	uments: Classification of instruments; Voltn	neter, Ammeter, Wattmet	er, Ene	ergy me	ter, Mu	ultimeter,
CRO: Principles	and operation.					
Semiconductor	levices: V-I characteristics of PN junction of	liode and Zener diode; R	lectifier	rs - Hal	lf wave	e and full
wave rectifiers;	3JT - configurations; Amplifiers & Oscilla	tors: classification, oper	ation a	ind app	lication	ns; SCR:
Construction and	V-I characteristics; Basic power converters (Block diagram approach	only).			
Digital systems	Boolean algebra - Reduction of Boolean	expressions - De-Morga	an's th	eorem	- Logi	c gates -
Implementation	f Boolean expressions.					
Communication	Systems: Model of communication system -	Analog and digital, Wire	d and w	vireless	channe	el - Block
diagram of vario	s communication systems - Microwave, satel	llite, optical fiber and cell	ular mo	obile sy	stem.	
Electrical safet	and wiring: Safety measures in electrical	system - Safety device	s - typ	bes of v	wiring	- Wiring
accessories- stai	case, fluorescent lamps and corridor wiring	g - Basic principles of e	arthing	- Typ	es of e	arthing -
layout of genera	ion,					
transmission and	distribution of power (Single line diagram).					
COURSE OUT	COMES					
Upon completio	of this course, students will be					
able to1.Solve v	ry simple problems in DC and					
AC circuits						
2.Explain the co	struction and principle of operation of DC an	nd AC machines				
3.Describe the o	eration of simple electrical measuring instrun	nents				
4.Elucidate the d	aracteristics of diode, Zener diode, BJT, SCF	R and their				
applications5.In	lement Boolean expressions using logic gate	S				
6.Explain the op	ration of functional blocks of various commu	unication systems				
7.Summarize the	electrical safety systems and electrical wiring	g procedures				
REFERENCES	(BOOKS):					
1. Smarajit 2 nd Edition, I	Ghosh, "Fundamentals of Ele II Learning, 2010.	ectrical and Ele	ectronic	cs	Engine	ering",
2. R. Muthusu	ramaniam, S. Salaivahanan and K.A. Murele	eedharan, "Basic Electric	al Elec	etronics	and C	omputer
2 D.B. Kothor	, Tata MCGraw Hill, 2004.	ocia Electrical Engineerin	~" DU	Lloomi	ng Nor	y Dolhi
5. D.F. Koulat	and I.J. Nagrati, Theory and Froblems of Ba	asic Electrical Engineerin	g,rn	I leann	lig, nev	w Denn,
2004. 4 I.P. Cunto 1	Fundamentals of Electrical Engineering and E	Jactronias" S. V. Vataria	and Sc	na Dar	mint 20	12
Edition.	fundamentals of Electrical Engineering and E	Sectionics , S.K. Katana	and Sc	nis, Rej	J III 20	12
5. R.L. Boyles	d and L. Nashelsky, "Electronic Devices and	Circuit Theory", Pearson	n, 11 th E	Edition,	2013.	
6. George Ker	edy and Bernard Davis, "Kennedy's Electro	onic communication Sys	tems",	McGra	w Hill	
Education,	^a Edition, 2011.					
7. Donald P. L	ach, Albert Paul Malvino and Goutam Saha,	"Digital Principles and A	Applica	tions",	McGra	aw-Hill
Education, 8	Edition, 2014.					
REFER	ENCES (WEBSITES):					
1. https://n	tel.ac.in/courses/108108076/					
2. https://n	tel.ac.in/downloads/108105053/					
3. https://n	tel.ac.in/courses/117103063/					
4. https://n	tel.ac.in/courses/117102059/					

			Engine	ering Scien	nce(ES)					
1902CS306			OOPs & Da	ata Structures	S		L	Т	Р	С
		(Comr		3	0	0	3			
Course Object	tives:									
-	1. To	comprehend	he fundamen	tals of objec	ct oriented p	programming, j	particula	rly in	C++.	
	2. To	use object ori	ented program	mming to im	plement da	ta structures.				
	3. To	introduce line	ear, non-linea	r data structu	ures and the	eir applications	3.			
Unit I	OBJECT O	RIENTED P	ROGRAMM	IING					9	Hours
Evolution of I	Programming -	methodologie	es - Introducti	ion to OOP -	-Basic featu	res - Structure	e of C++	- Prog	gram-	
Compiling an	d Executing (C++ Program	- Data types -	- Operators -	- Expressior	<mark>1s - Control sta</mark>	atements	&		
Iteration state	ments in C++	<mark>⊦ - Arrays-Str</mark>	uctures-Point	ters						
Unit II	FUNCTION	NS & CONST	RUCTORS						9	Hours
Functions - Pa	assing Data to	o Functions - S	Scope and Vis	sibility of va	riables in F	unctions - Dy	namic B	linding	g - data	a
members - me	ember functio	ons - this Poin	ter - Friend F	Functions - F	Friend Class	ses - Construct	ors and I	Destru	ctors.	
Unit III	LINEAR DA	ATA STRUC	TURES						91	Hours
Abstract Data	Types (ADT	rs) – List ADT	- array-base	d implement	tation – link	ted list implem	nentation	— siı	ngly lii	nked
lists –Polynor	nial Manipula	ation - Stack A	DT – Queue	ADT - Eval	luating arith	metic express	ions			
Unit IV	NON-LINE	AR DATA SI	TRUCTURE	S					91	Hours
Trees – Binar	y Tree-Binary	y search trees	-Tree travers	al -Expressio	on manipula	ation -Symbol	table cor	istruct	tion - A	AVL
trees: Rotation	n, Insertion, I	Deletion,-Red	black tree – 0	Graph and its	s representa	ations – Graph	Traversa	als –		
Representatio	n of Graphs –	– Breadth-first	search – Dep	oth-first searc	ch - Connec	cted componen	its.			
Unit V	SORTING a	and SEARCE	IING						91	Hours
Sorting Techr	niques-Selecti	ion, Bubble, Ii	sertion, Mer	ge, Heap, Qu	uick, and Ra	adix sort -Add	ress calc	ulatio	n -	
Linear search	-Binary searc	oh Uochtoblo								
		cii -masii table	methods.							
		chi -Hash table	methods.			Total:			45 H	Iours
Further Readi	ng:		methods.			Total:			45 H	Iours
Further Readi	ng: JAVA Progra	am	methods.			Total:			45 H	Iours
Further Readi	ng: JAVA Progra Advanced So	am orting Algorith	methods.			Total:			45 F	Iours
Further Readi	ng: JAVA Progra Advanced So mes:	ram orting Algorith	methods.			Total:			45 H	Iours
Further Readi	ng: JAVA Progra Advanced So mes: After comple	am orting Algorith	methods.	will be able	to	Total:			45 E	Iours
Further Readi	ng: JAVA Progra Advanced So mes: After comple 1. Und	am orting Algorith etion of the co lerstand the var	methods. ms. urse, Student tious program	will be able ming method	to lologies and	Total: OOPs Concep	ts.		45 H	Hours
Further Readi	ng: JAVA Progra Advanced So mes: After comple 1. Und 2. Und 3. Des	am orting Algorith etion of the co lerstand the var derstand the sc sign algorithm	methods. mms. urse, Student tious program ope of Functi	will be able ming method ions in Real	to lologies and time Proble	Total: OOPs Conceptems.	ts.		45 H	lours
Further Readi	ng: JAVA Progra Advanced So mes: After comple 1. Und 2. Und 3. Des 4. Rec	am orting Algorith etion of the co lerstand the van derstand the sc sign algorithm	methods. mms. urse, Student ious program ope of Functi s to solve real use of Non-L	will be able ming method ions in Real l life problen inear Data st	to lologies and time Proble ns using dat	Total: OOPs Concepters. ta structures ch as Binary S	ts.	e. AV	45 F	Hours
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Employability Enhanced Course Project Seminar Internship (EEE / PSI)

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Unit I	INTRODUCTION TO SOFT SKILLS			6	Hours					
Soft Skills Perception	an Overview - Basics of Communication – Body Language and forming values – Communicating with others.	– Positive att	itude –	Impr	roving					
Unit II	TEAM VS TRUST			6	Hours					
Interpersonal skills – Understanding others – Art of Listening - Group Dynamics – Networking - Individual and group presentations - Group interactions – Improved work Relationship.										
Unit III	SELLING ONESELF			6	Hours					
How to bra .Interview s	nd oneself – social media – job hunting – Resume writing – G kills – Mock Interview	roup Discussi	on – M	lock	G.D -					
Unit IV	CORPORATE ETIQUETTES			6	Hours					
What is Etic Dining etiq	quette – Key Factors – Greetings – Meeting etiquettes – Telephor aettes – Dressing etiquettes – Rest room etiquettes – Life etiquette	ne etiquettes – es	email e	tique	ettes –					
Unit V	LEARNING BY PRACTICE			6	Hours					
1. My famil life.5Travel Making a pl	y. Myself. 2. Meeting people. Making Contacts.3. A city. Getting ling. Going abroad.6. Going through Customs.7. At a hotel.8. Sh none call.11A modern office.12 Discussing business.	g about town. opping. 9. Eat	4. Our ing out.	flat. 1 10.	Home					
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2. Arunako	neru, "Professional Communication" Second Edition, Tata McGra	w-Hill Educat	tion, 20	12						
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