Course Structure of 3rd Year B.Tech CHEMICAL ENGINEERING (Admission Batch: 2018-19 Onwards)

	Fifth Semester	Sixth Semester					
	Theory				Theory		
Course Code	Course Name	L-T-P (Periods/ Week)	Credits	Course Code	Course Name	L-T-P (Periods/ Week)	Credits
				HSHM3306M/ HSHM3306	Enhancing Soft Skills and Personality	2-0-0	2
	Programme Core Subject				Programme Core Subject		
PCCH4306	Mass Transfer- II	3-0-0	3	PCCH4309	Chemical Reaction	3-0-0	3
PCCH4307	Chemical Reaction	3-0-0	3		Engineering -II		
	Engineering-I			PCCH4310	Process Dynamics and	3-0-0	3
PCCH4308	Chemical Process	3-0-0	3		Control		
(Any One) PECH5301/	Programme Elective I Fuel and Energy	3-0-0	3	(Any One) PECH5303/	Programme Elective II Chemical Engineering Mathematics and MATLAB/	3-0-0	3
DECLISADA	Technology /			PECH5304	Waste to Energy Conversion		
PECH5302	Bio-Chemical Engineering	3-0-0	3				
(Any One)	Open Elective II Refer List of Open Electives		3	(Any One)	Open Elective III Refer List of Open Electives	3-0-0	3
	Mandatory Course V Environmental Science/ Universal Human Values	2-0-0	0	MCHM9306 /MCGN9305	Mandatory Course VI Universal Human Values/ Environmental Science	2-0-0	0
	Total (Theory)	17	15		Total (Theory)	16	14
1	Honours/ Minor	3-1-0	4	1	Honours/ Minor	3-1-0	4
HNCH0303	Advanced Mass Transfer			HNCH0304	Advanced Process Control		
MNCH0303	Fuel Cell Technology			MNCH0304	Membrane Science and Engineering		
	Practical/ Sessional				Practical/ Sess	ional	
PCCH7306	Fuel Technology	0-0-3	2	PCCH7309	CAD Laboratory	0-0-3	2
	Laboratory			PCCH7310	Process Control Laboratory	0-0-3	2
PCCH7307	Chemical Reaction Engineering Laboratory	0-0-3	2	HSHM3305	Business Communication & Interview Skills	0-0-3	1
PCCH7308	Chemical Technology Laboratory	0-0-3	2	PJCH8301	Skill Project	0-0-3	2
Total	(Practical/ Sessional)	9	6	Total	(Practical/ Sessional)	12	7
20	TOTAL	26	21		TOTAL	28	21
,	TOTAL SEMESTER CREDIT			,	TOTAL SEMESTER CREDIT		
	TAL CUMULATIVE CRED				TAL CUMULATIVE CRED		
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Course Structure for 3rd Year B.Tech COMPUTER SCIENCE & ENGINEERING

	Fifth Semester				Sixth Semester		
	Theory			Theory			
Course Code	Course Name	L-T-P (Periods/ Week)	Credits	Course Code	Course Name	L-T-P (Periods/ Week)	Credits
		ŕ		HSHM3306M/ HSHM3306	Enhancing Soft Skills and Personality	2-0-0	2
PCCS4306	Programme Core Subject Design and Analysis of Algorithm	3-0-0	3	PCCS4309	Programme Core Subject Operating System	3-0-0	3
PCCS4307	Computer Networks	3-0-0	3	PCCS4310	Compiler Design	3-0-0	3
PCCS4308	Microprocessor and Micro Controller	3-0-0	3	(Any One) PECS5304/ PECS5305/ PECS5306/	Programme Elective II Machine Learning Techniques/ Soft Computing/ Cryptography and Network Security	3-0-0	3
(Any One) PECS5301/ PECS5302/ PECS5303/	Programme Elective I Computer System Architecture/ Embedded System Design/ Graph Theory	3-0-0	3				
(Any One)	Open Elective II Refer List of Open Electives	3-0-0	3	(Any One)	Open Elective III Refer List of Open Electives	3-0-0	3
MCGN9305/ MCHM9306		2-0-0	0	MCHM9306/ MCGN9305	Mandatory Course VI Universal Human Values/ Environmental Science	2-0-0	0
	Total (Theory)	17	15		Total (Theory)	16	14
1	Honours/ Minor	3-1-0	4		Honours/ Minor	3-1-0	4
HNCS0303 MNCS0303	Software Architecture Database Management System			HNCS0304 MNCS0304	Software Quality Management Computer Networks		
	Practical/ Sessional				Practical/ Session	onal	
PCCS7305	Design & Analysis of Algorithm Lab	0-0-3	2	PCCS7308	Operating System Lab	0-0-3	2
PCCS7306	Computer Networks Lab	0-0-3	2	PCCS7309	Compiler Design Lab	0-0-3	2
PCCS7307	Microprocessor and Micro Controller Lab	0-0-3	2	HSHM3305	Business Communication & Interview Skills	0-0-3	1
				PJCS8301	Skill Project	0-0-3	2
Total	(Practical/ Sessional)	9	6	Tota	ıl (Practical/ Sessional)	12	7
	TOTAL	26	21		TOTAL	28	21
TOTAL SEMESTER CREDITS: 21			TOTAL SEMESTER CREDITS: 21				
TOTAL CUMULATIVE CREDITS: 104				TOTAL CUMULATIVE CREDITS: 125			

Course Structure for 3rdYear B.Tech ELECTRICAL ENGINEERING (Admission Batch: 2018-19 Onwards)

	Fifth Semester				Sixth Semester			
	Theory			Theory				
Course Code	Course Name	L-T-P (Periods/ Week)	Credits	Course Code	Course Name	L-T-P (Periods/ Week)	Credits	
	Programme Core Subject				Enhancing Soft Skills and	2-0-0	2	
PCEE4306	Power Electronics	3-0-0		HSHM3306	Personality			
PCEE4307	Microprocessor & Microcontroller	3-0-0	3	PCEE4309	Programme Core Subject Electrical Drives	3-0-0	3	
PCEE4308	Electrical Power Transmission and Distribution	3-0-0	3	PCEE4310	Power System Operation & Control	3-0-0	3	
(Any One) PEEE5301/ PEEE5302/ PEEE5303	Programme Elective I Electromagnetic Field Theory Special Electrical Machines Digital Signal Processing	3-0-0	3	(Any One) PEEE5304/ PEEE5305	Programme Elective II Power Quality/ FACTS	3-0-0	3	
(Any One)	Open Elective II Refer List of Open Electives	3-0-0	3	(Any One)	Open Elective III Refer List of Open Electives	3-0-0	3	
MCGN9305/ MCHM9306	Mandatory Course V Environmental Science/ Universal Human Values	2-0-0	0	MCHM9306/ MCGN9305	Mandatory Course VI Universal Human Values/ Environmental Science	2-0-0	0	
l .	Total (Theory)	17	15		Total (Theory)	16	14	
1	Ionours/ Minor	3-1-0	4	1	Honours/ Minor	3-1-0	4	
HNEE0303	Electrical Machine Design			HNEE0304	Control System Engineering-II			
MNEE0303	Electrical Power Transmission and Distribution			MNEE0304	Sensors and Transducers			
	Practical/ Sessional				Practical/ Sess	ional		
PCEE7306	Power Electronics Laboratory	0-0-3	2	PCEE7309	Electrical Drives Laboratory	0-0-3	2	
PCEE7307	Microprocessor & Microcontroller Laboratory	0-0-3	2	PCEE7310	Power System Laboratory- II	0-0-3	2	
PCEE7308	Power System Laboratory-I	0-0-3	2	HSHM3305	Business Communication & Interview Skills	0-0-3	1	
				PJEE8301 Skill Project 0-0-3		0-0-3	2	
Total	(Practical/ Sessional)	9	6	Total	(Practical/ Sessional)	12	7	
	TOTAL	26	21		TOTAL	28	21	
	TOTAL SEMESTER CREDITS: 21				TOTAL SEMESTER CREDITS: 21			
TO	TAL CUMULATIVE CRED	ITS: 104		TO	TAL CUMULATIVE CRED	ITS: 125		

B.Tech Syllabus for Admission Batch 2018-19 Onwards

Electrical Engineering

PJEE8301	Skill Project	0-0-3	Credit-2
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List of Experiments:

- 1. To prepare married joint of stranded aluminium or copper wire.
- 2. To prepare shackle insulator joint.
- 3. To prepare pin insulator joint.
- 4. To prepare Britannia joint.
- 5. To prepare an electrical switch board.
- 6. To make the connection and testing of Sodium vapour lamp.
- 7. To make the connection and testing of Mercury vapour lamp.
- 8. To prepare a pipe earthing for a residential building and to measure the earth resistance.

Course Structure for 3rdYear B.Tech ELECTRONICS AND TELECOMMUNICATION ENGINEERING

	Fifth Semester				Sixth Semester		
	Theory			Theory			
Course Code	Course Name	L-T-P (Periods/ Week)	Credits	Course Code	Course Name	L-T-P (Periods/ Week)	Credits
PCEC4306	Programme Core Subject Communication Engineering	3-0-0		HSHM3306M/ HSHM3306	Enhancing Soft Skills and Personality	2-0-0	2
PCEC4307	Digital Signal Processing	3-0-0	3	PCEC4309	Programme Core Subject Control System	3-0-0	3
PCEC4308	VLSI Design	3-0-0	3	PCEC4310	Microwave Engineering	3-0-0	3
(Any One)	Programme Elective I Refer the list of programme elective I	3-0-0	3	(Any One)	Programme Elective II Refer the list of programme elective II	3-0-0	3
(Any One)	Open Elective II Refer List of Open Electives	3-0-0	3	(Any One)	Open Elective III Refer List of Open Electives	3-0-0	3
MCGN9305/ MCHM9306		2-0-0	0	MCHM9306/ MCGN9305	Mandatory Course VI Universal Human Values/ Environmental Science	2-0-0	0
	Total (Theory)	17	15	Total (Theory) 16		16	14
I	Honours/ Minor	3-1-0	4	1	Honours/ Minor	3-1-0	4
HNEC0303	Machine Learning			HNEC0304	Cognitive Radio		
MNEC0303	Principles of Communication Engineering			MNEC0304	Computer Network and Data Communication		
	Practical/ Sessional				Practical/ Sess	ional	
PCEC7306	Communication Engineering Lab	0-0-3	2	PCEC7309	Control and Instrumentation Lab	0-0-3	2
PCEC7307	Digital Signal Processing Lab	0-0-3	2	PCEC7310	Microwave Engineering Lab	0-0-3	2
PCEC7308	VLSI Design Lab	0-0-3	2	HSHM3305	Business Communication & Interview Skills	0-0-3	1
				PJEC8301	Skill Project	0-0-3	2
Total	(Practical/ Sessional)	9	6	Total	(Practical/ Sessional)	12	7
	TOTAL	26	21		TOTAL	28	21
7	TOTAL SEMESTER CREDIT	S: 21		TOTAL SEMESTER CREDITS: 21			
TO	TAL CUMULATIVE CREDI	TS: 104		TC	TAL CUMULATIVE CRED	ITS: 125	

		ı	I
PJEC8301	Skill Project	0-0-3	Credits 2

LIST OF EXPERIMENTS:

(Any three)

- 1. Build a smart IoT device to control all the home appliances using an Android App.
- Build a Robot that can follow a line, follow/avoid an obstacle autonomously.
- Finding out the price of a house based on different available features using linear regression.
- 4. Grouping of customers by a telephone company using various classification techniques.
- 5. Build a smart irrigation system using Raspberry Pi.
- Understand Android development concepts and develop different Apps.
- 7. Develop ladder logic to develop MUX and De- MUX.
- 8. Implementation of counter in PLC programming.

Course Structure for 3rd Year B.Tech MECHANICAL ENGINEERING

Fifth Semester Sixth Semester								
	Theory			Theory				
Course Code	Course Name	L-T-P (Periods/ Week)	Credits	Course Code	Course Name	L-T-P (Periods/ Week)	Credits	
				HSHM3306M/ HSHM3306	Enhancing Soft skills and Personality	2-0-0	2	
DCME4200	Programme Core Subject	200		DCME4200	Programme Core Subject	200	2	
PCME4306	Theory of Machine-II	3-0-0		PCME4309	Machine Design-I	3-0-0	3	
PCME4307 PCME4308	Power Engineering Manufacturing Technology- II	3-0-0 3-0-0	3	PCME4310	Product Design and Production Tooling	3-0-0	3	
(Any One) PEME5301/	Programme Elective I Micro-Electro Mechanical system/	3-0-0	3	(Any One) PEME5304/	Programme Elective II Advanced Mechanics of Material	3-0-0	3	
PEME5302/	Simulation, Modelling and Control/			PEME5305/	Mechanical Measurement and Control			
PEME5303/	Non- Conventional Energy Sources			PEME5306/	Machine Conditioning Monitoring			
(Any One)	<i>Open Elective II</i> Refer list of Open Electives	3-0-0	3	(Any One)	Open Elective III Refer list of Open Electives	3-0-0	3	
MCGN9305/ MCHM9306		2-0-0	0	MCHM9306 /MCGN9305	Mandatory Course VI Universal Human Values/ Environmental Science	2-0-0	0	
	Total (Theory)	17	15		Total (Theory)	16	14	
	Honours/ Minor	3-1-0	4	1	Honours/ Minor	3-1-0	4	
HNME0304	Advanced Mechanics of Solids/			HNME0307 HNME0308	Advanced Fluid Mechanics Fluid Power and Turbo			
HNME0305 HNME0306	Design of Machine Components/ Experimental Stress			HNME0309	Machinery Power Plant Engineering			
	Analysis							
MNME0303	0			MNME0304	Mechanics of Solid			
PCME7306	Practical/ Sessional	0-0-3	2	DCME7200	Practical/ Sess	0-0-3	2	
PCME7307	Machine Dynamics Lab - II Mechanical Engineering Lab - III	0-0-3	2	PCME7309 PCME7310	Machine Design Lab Advanced Manufacturing Lab	0-0-3	2	
PCME7308	Manufacturing Technology-II Lab	0-0-3	2	HSHM3305	Business Communication & Interview Skills	0-0-3	1	
				PJME8301	Skill Project	0-0-3	2	
Total	(Practical/ Sessional)	9	6	Total	(Practical/ Sessional)	12	7	
	TOTAL	26	21		TOTAL	28	21	
	TOTAL SEMESTER CREDIT			TOTAL SEMESTER CREDITS: 21				
TO	TAL CUMULATIVE CRED	ITS: 104		TOTAL CUMULATIVE CREDITS: 125				

INDIRA GANDHI INSTITUTE OF TECHNOLOGY, SARANG Course Structure for 3rd Year B.Tech METALLURGICAL AND MATERIALS ENGINEERING

	Fifth Semester				Sixth Semester		
	Theory			Theory			
Course Code	Course Name	L-T-P (Periods/ Week)	Credits	Course Code	Course Name	L-T-P (Periods/ Week)	Credits
	Programme Core Subject			I	Enhancing Soft Skills and	2-0-0	2
PCMT4306	Physical Metallurgy	3-0-0		HSHM3306	Personality		
PCMT4307	Iron Making	3-0-0	3	PCMT4309	Programme Core Subject Steel Making	3-0-0	3
PCMT4308	Non-Ferrous Extractive Metallurgy	3-0-0	3	PCMT4310	Mechanical Working & Testing of Materials	3-0-0	3
(Any One) PEMT5301/ PEMT5302/ PEMT5303/	Programme Elective I Mineral Processing/ Fuel Technology/ Refractories and Furnaces	3-0-0	3	(Any One) PEMT5304/ PEMT5305/ PEMT5306	Programme Elective II Instrumental Methods of Analysis/ Non Destructive Testing of Materials/ Polymer Technology	3-0-0	3
(Any One)	Open Elective II Refer List of Open Electives	3-0-0	3	(Any One)	Open Elective III Refer List of Open Electives	3-0-0	3
MCGN9305/ MCHM9306		2-0-0	0	MCHM9306 /MCGN9305	Mandatory Course VI Universal Human Values/ Environmental Science	2-0-0	0
	Total (Theory)	17	15	Total (Theory) 16		14	
1	Honours/ Minor	3-1-0	4	1	Honours/ Minor	3-1-0	4
HNMT0303	Material Failure and Analysis			HNMT0304	Secondary Steel Making		
MNMT0303	Mechanical Metallurgy			MNMT0304	Iron Making & Steel Making		
	Practical/ Sessional				Practical/ Sess	ional	
PCMT7306	Heat Treatment Laboratory	0-0-3	2	PCMT7309	Advanced Materials Processing Laboratory	0-0-3	2
PCMT7307	Process Metallurgy Laboratory	0-0-3	2	PCMT7310	Computer Application in Metallurgy	0-0-3	2
PCMT7308	Mineral Processing & Fuel Testing Laboratory	0-0-3	2	HSHM3305	Business Communication & Interview Skills	0-0-3	1
	-			PJMT8301	Skill Project	0-0-3	2
Total	(Practical/ Sessional)	9	6	Total	(Practical/ Sessional)	12	7
	TOTAL	26	21		TOTAL	28	21
TOTAL SEMESTER CREDITS: 21 TOTAL SEMESTER CREDITS: 21							
TO	TAL CUMULATIVE CRED	ITS: 104		TC	OTAL CUMULATIVE CRED	ITS: 125	

Course Structure for 3rd Year B.Tech PRODUCTION ENGINEERING

	Fifth Semester			Sixth Semester				
	Theory			Theory				
Course Code	Course Name	L-T-P (Periods/ Week)	Credits	Course Code	Course Name	L-T-P (Periods/ Week)	Credits	
PCPD4306	Programme Core Subject Metal Forming Technology	3-0-0	3	HSHM3306M/ HSHM3306	Enhancing Soft skills and Personality	2-0-0	2	
PCPD4307	Tool Design	3-0-0	3	PCPD4309	Programme Core Subject CAD/CAM	3-0-0	3	
PCPD4308	Metrology & Inspection	3-0-0	3	PCPD4310	Advanced Machining Technology	3-0-0	3	
(Any One) PEPD5301/ PEPD5302/ PEPD5303/	Programme Elective I Fluid Mechanics & Hydraulic Machine / Hydraulics & Pneumatics/ Tribology in Design and Manufacturing	3-0-0	3	(Any One) PEPD5304/ PEPD5305/ PEPD5306/	Programme Elective II Statistical Quality Control & Reliability/ Quality Assurance and Reliability/ Total Quality Management	3-0-0	3	
(Any One)	Open Elective II Refer List of Open Electives	3-0-0	3	(Any One)	Open Elective III Refer List of Open Electives	3-0-0	3	
	Mandatory Course V Environmental Science/ Universal Human Values	2-0-0	0	MCHM9306/ MCGN9305	Mandatory Course V Universal Human Values/	2-0-0	0	
	Total (Theory)	17	15		Total (Theory)	16	14	
1	Honours/ Minor	3-1-0	4		Honours/ Minor	3-1-0	4	
HNPD0303	Advanced Casting & Welding			HNPD0304	Theory of Plastic Deformation			
MNPD0303	CAD/CAM			MNPD0304	Robotics & Robot Application			
	Practical/ Sessional				Practical/ Sessi	onal		
PCPD7306	Metal Forming Lab	0-0-3	2	PCPD7309	CAD/CAM Lab	0-0-3	2	
PCPD7307	Tool Design Sessional	0-0-3	2	PCPD7310	Advanced Machining Lab	0-0-3	2	
PCPD7308	Metrology & Inspection Lab	0-0-3	2	HSHM3305	Business Communication & Interview Skills	0-0-3	1	
				PJPD8301	Skill Project	0-0-3	2	
Total	(Practical/ Sessional)	9	6	Tota	l (Practical/ Sessional)	12	7	
	TOTAL	26	21		TOTAL	28	21	
TOTAL SEMESTER CREDITS: 21 T				TOTAL SEMESTER CREDIT				
TO	TAL CUMULATIVE CREDI	ITS: 104		T	OTAL CUMULATIVE CREDIT	ΓS: 125		

Course Structure for 3rdYear B.Tech CIVIL ENGINEERING (Admission Batch: 2018-19 Onwards)

	Fifth Semester			2010-19 0	Sixth Semester		
	Theory			Theory			
Course Code	Course Name	L-T-P (Periods/ Week)		Course Code	Course Name	L-T-P (Periods/ Week)	Credits
		,		HSHM3306M/ HSHM3306	Enhancing Soft Skills and Personality	2-0-0	2
PCCE4306	Programme Core Subject Design of Steel Structures	3-0-0	3	PCCE4309	Programme Core Subject Design of Concrete Structures - II	3-0-0	3
PCCE4307	Environmental Engineering	3-0-0	3	PCCE4310	Structural Analysis - II	3-0-0	3
PCCE4308	Geo Technical Engineering	3-0-0	3	(Any One) PECE5303/	Programme Elective II Irrigation Engineering and Irrigation Structures	3-0-0	3
(Any One)	Programme Elective I	3-0-0	3		0		
PECE5301/ PECE5302	Open Channel Flow/ Water Resources Engineering						
(Any One)	Open Elective II Refer List of Open Electives	3-0-0	3	(Any One)	Open Elective III Refer List of Open Electives	3-0-0	3
MCGN9305/ MCHM9306		2-0-0	0	MCHM9306/ MCGN9305	Mandatory Course VI Universal Human Values/ Environmental Science	2-0-0	0
	Total (Theory)	17	15		Total (Theory)	16	14
	Honours/ Minor	3-1-0	4	1	Honours/ Minor	3-1-0	4
HNCE0303	Design of Structural Systems			HNCE0304	Ground Improvement Engineering		
	Practical/ Sessional				Practical/ Sess	ional	
PCCE7306	Detailing of Steel Structures	0-0-3	2	PCCE7309	Detailing of Advanced Concrete Structures	0-0-3	2
PCCE7307	Environmental Engineering Laboratory	0-0-3	2	PCCE7310	Transportation Engineering Laboratory	0-0-3	2
PCCE7308	Geo Technical Engineering Laboratory	0-0-3	2	HSHM3305	Business Communication & Interview Skills	0-0-3	1
				PJCE8301	Skill Project	0-0-3	2
Total	(Practical/ Sessional)	9	6	Total	(Practical/ Sessional)	12	7
	TOTAL	26	21		TOTAL	28	21
TOTAL SEMESTER CREDITS: 21				TOTAL SEMESTER CREDITS: 21			
TOTAL CUMULATIVE CREDITS: 104				TOTAL CUMULATIVE CREDITS: 125			

Course Structure for 3rdYear B.Tech ELECTRONICS AND TELECOMMUNICATION ENGINEERING

	Fifth Semester			Sixth Semester				
	Theory			Theory				
Course Code	Course Name	L-T-P (Periods/ Week)	Credits	Course Code	Course Name	L-T-P (Periods/ Week)	Credits	
	Programme Core Subject				Enhancing Soft Skills and	2-0-0	2	
PCEC4306	Communication Engineering		3	HSHM3306	Personality			
PCEC4307	Digital Signal Processing	3-0-0	3	PCEC4309	Programme Core Subject Control System	3-0-0	3	
PCEC4308	VLSI Design	3-0-0	3	PCEC4310	Microwave Engineering	3-0-0	3	
(Any One)	Programme Elective I Refer the list of programme elective I	3-0-0	3	(Any One)	Programme Elective II Refer the list of programme elective II	3-0-0	3	
(Any One)	Open Elective II Refer List of Open Electives	3-0-0	3	(Any One)	Open Elective III Refer List of Open Electives	3-0-0	3	
MCGN9305/ MCHM9306	Mandatory Course V Environmental Science/ Universal Human Values	2-0-0	0	MCHM9306/ MCGN9305	Mandatory Course VI Universal Human Values/ Environmental Science	2-0-0	0	
	Total (Theory)	17	15	5 Total (Theory) 16		16	14	
I	Honours/ Minor	3-1-0	4]	Honours/ Minor	3-1-0	4	
HNEC0303	Machine Learning			HNEC0304	Cognitive Radio			
MNEC0303	Principles of Communication Engineering			MNEC0304	Computer Network and Data Communication			
	Practical/ Sessional				Practical/ Sess	sional		
PCEC7306	Communication Engineering Lab	0-0-3	2	PCEC7309	Control and Instrumentation Lab	0-0-3	2	
PCEC7307	Digital Signal Processing Lab	0-0-3	2	PCEC7310	Microwave Engineering Lab	0-0-3	2	
PCEC7308	VLSI Design Lab	0-0-3	2	HSHM3305	Business Communication & Interview Skills	0-0-3	1	
				PJEC8301	Skill Project	0-0-3	2	
Total	(Practical/ Sessional)	9	6	Total	(Practical/ Sessional)	12	7	
	TOTAL	26	21		TOTAL	28	21	
7	TOTAL SEMESTER CREDIT	TS: 21		TOTAL SEMESTER CREDITS: 21				
ТО	TAL CUMULATIVE CREDI	TS: 104		TC	OTAL CUMULATIVE CRED	ITS: 125		

B.TECH SYLLABUS for ELECTRONICS AND TELECOMMUNICATION ENGINEERING

(Admission Batch: 2018-19 Onwards) 6th Semester

HSHM3306

Enhancing Soft Skills and Personality

2-0-0

Credit-2

Course Objective

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 one's 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 self-confidence, positive attitude, emotional intelligence, social grace, flexibility, friendliness and effective communication skills. The focus of this course is on interpersonal and management skills.

Module I 10 Hours

- •Highlights of Developing Soft Skills and Personality Course-1-24
- •Highlights of Developing Soft Skills and Personality Course-25-48
- •Definitions and Types of Mindset
- •Learning Mindsets
- •Secrets of Developing Growth Mindsets
- •Importance of Time and Understanding Perceptions of Time
- •Using Time Efficiently
- •Understanding Procrastination
- •Overcoming Procrastination
- •Don't Say "Yes" to Make Others Happy!

Module II: 10 Hours

- Types of People
- How to Say "No"
- Controlling Anger
- Gaining Power from Positive Thinking-1
- Gaining Power from Positive Thinking-2
- What Makes Others Dislike You?
- What Makes Others Like You?-1
- What Makes Others Like You?-2
- Being Attractive-1
- Being Attractive-2

Module III 10 Hours

- Common Errors-1
- Common Errors-2
- Common Errors-3
- Common Errors-4
- Common Errors-5
- Humour in Communication
- Humour in the Workplace
- Function of Humour in the Workplace
- Money and Personality
- Managing Money

Module IV 10 Hours

- Health and Personality
- Managing Health-1: Importance of Exercise
- Managing Health-2: Diet and Sleep
- Love and Personality
- Managing Love
- Ethics and Etiquette
- Business Etiquette
- Managing Mind and Memory
- Improving Memory
- Care for Environment
- Highlights of the Course

Books for Reference:

- 1. Dorch, Patricia. What Are 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 & Company, 2013.
- 3. Klaus, Peggy, Jane Rohman & Molly Hamaker. The Hard Truth about Soft Skills. London: Harper Collins E-books, 2007.
- 4. Petes S. J., Francis. Soft Skills and Professional Communication. New Delhi: Tata McGraw-Hill Education, 2011.
- 5. Stein, Steven J. & Steven J. & Howard E. Book. The EQ Edge: Emotional Intelligence and Your Success. Canada: Wiley & Sons, 2006.

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COURSE OBJECTIVES

- 1. To develop communicative competence in prospective engineers.
- 2. To train them to participate in Group Discussion, presentation & face interview
- 3. To understand team dynamic & effectiveness.
- 4. To learn leadership qualities and practice them.
- 5. To develop basic personality traits.

Detailed Syllabus

Emphasis will have to be given to practice sessions in the class room by the learners Module –I (08 Hours)

- 1. Soft Skills: An introduction-Definition and Significance of Soft Skills; Importance and Measurement of Soft Skill Development, Role of effective communication in professional life.
- 2. Self-Discovery: Discovering the Self; Beliefs, Values, Attitude, Virtue,
- 3. Being Creative: Out of the box thinking, Lateral Thinking and its use.

Module-II (12 hours)

- 1. Public Speaking: Skills, Methods, Strategies and Essential tips for effective public speaking.
- 2. Teamwork and Leadership Skills: Concept of Teams; Building effective teams; being a team player, Concept of Leadership and developing Leadership skills
- 3. Group Discussion: Importance, Planning, Elements and Skills. GD as part of a selection process: Evaluation and Analysis

Module-III (12 hours)

- 1. Interview Skills: Interviewee-in-depth perspectives, Types of Interview- In Campus / Onsite/ Telephonic, Before, During and After the Interview. Tips for Success.
- 2. Presentation Skills: Types, Content, Audience Analysis, Essential Tips-Before, During and After, Overcoming Nervousness/ reducing stage fright, visualization strategies, on camera techniques.
- 3. Preparing Curriculum Vitae, Resume, Bio-data, Job Application

Module-IV (08 hours)

- 1. Stress/ Time Management: Definition, Nature, types, Symptoms and Causes; Stress Analysis Models and Impact of Stress; Measurement and Management of Stress. Effective utilization of Time as a resource, Managing Time
- 2. Leadership and Assertiveness Skills: A Good Leader; Leaders and Managers; Types of Leadership behavior; Assertiveness Skills.
- 3. Emotional Intelligence: Meaning, Features, Intrapersonal and Management Excellence; Strategies to enhance Emotional Intelligence.

Reference Books:

- 1. Managing Soft Skills for Personality Development-edited by B.N. Ghosh, McGraw Hill India, 2012.
- 2. English and Soft Skills-S.P. Dhanavel, Orient Blackswan India, 2012.
- 3. Personality Development and Soft Skills by Barun Mitra OUP
- 4. Communication Skills second edition Kumar Lata OUP
- 5. Crash Course in Personal Development- Brian Clegg Kogan Page Publication
- 6. Lateral Thinking by Edward De Bono Penguin Books

COURSE OUTCOMES

By the end of course, students shall be able to:

- 1. Understand the significance and essence of a wide range of soft skills. Learn how to apply soft skills in a wide range of routine social and professional settings.
- 2. Learn how to employ soft skills to improve interpersonal relationships. Learn how to use soft skills to enhance employability and ensure workplace and career success.
- 3. Participate in different types of Group Discussions/ Activities effectively, presenting a topic and face interviews with confidence.