



SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesarghatta Main Road, Bengaluru – 560057


ISO 9001, 14001 Certified Institute, Accredited by NAAC with A Grade

DEPARTMENT OF EEE

Program name	Program code	Name of the Course that include experiential learning through project work/field work/internship	Course code	Details of Experiential Learning through Projects/ Internship
FINAL YEAR				
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Power System Analysis – 2	17EE71	Experimental study of ageing of polymeric insulator by inclined plane test (P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Power System Protection	17EE72	Artificial eye for blind(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE	High Voltage Engineering	17EE73	Smart Cart System(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Testing and Commissioning of Power System Apparatus	17EE752	COVID-19 - Authorized Entry Using Face Mask Detection and Sanitizer Dispenser(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Rely and High Voltage Laboratory	17EEL77	Power generation using piezoelectric cell(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Power System Simulation Laboratory	17EEL76	WSN based data acquisition system for multiple faults monitoring & controlling system(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Power System Operation and Control	17EE81	Modeling and simulation of DC series motor in electric car(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Industrial Drives and Applications	17EE82	Earthquake rescue operation using robot(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Project Phase – I + Seminar	17EEP78	Ultra-violet sterilization robot for disinfectant(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Internship / Professional Practice	17EE84	CNC PCB Milling Machine(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Project Work Phase –II	17EEP85	Advanced battery energy storage system for grid applications(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Seminar	17EES86	Exam paper leakage detection by using RFID(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Real time Bridge monitoring using Wireless Technology(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Self driving garbage vehicle(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Door to Door Covid-19 checks(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE			IOT based single phase PWM inverter for speed control of Induction Motor(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Deep Neural network based recognition of plant disease by leaf image classification(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE			FISHERMEN BORDER ALERT SYSTEM USING MICROCONTROLLER(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Wireless Power Transmission(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Photovoltaic power interleaved DC to DC converter with single phase inverter for home appliances(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Fire Fighting Drone(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Self charging Electric Vehicle(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE			ANY TIME MEDICINE USING VENDING MACHINE(P)

ELECTRONICS & ELECTRONICS ENGINEERING	EE			S.T.A.T.S (Self Targeting Autonomous/ semi-Autonomous Turret System)(P)
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Underground Cable fault distance detection system using IOT
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Smart Voice Assistant Using Artificial Intelligence(P)
THIRD YEAR				
Program name	Program code	Name of the Course that include experiential learning through project work/field work/internship	Course code	Details of Experiential Learning through Projects/ Internship
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Microcontroller	18EE52	Automatic Irrigation System Using Moisture Sensor
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Power Electronics	18EE53	Fire Fighting Robot
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Signals and Systems	18EE54	Solar Tracker
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Microcontroller Laboratory	18EEL57	Eye Monitoring System For Fatigue Sleep Detection
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Power Electronics Laboratory	18EEL58	Tesla Coil
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Electrical Vehicle technologies	18EE646	Ardiuno Car Reverse Parking Sensor
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Mini Project	18EEMP68	Home Automation Using Bluetooth
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Accident Detection And Alert System Using Gsm ,Gps And Accerometer
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Traffic Light Control Using Ic4017 And Ic555
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Temperature Based Fans Speed Control And Monitoring Using Ardiuno
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Led Flashover Circuit Using 555 Timer
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Voltage Generation Using Peizo Electric Sensor
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Fire Control System
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Heart Rate Monitoring System Using 8051 Microcontroller
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Gsm Controlled Motor Starter
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Water Level Detector
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Ultrasonic Radar
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Digital Clock Using Ardiuno Uno
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Audiuno Based Fire Figting Robot
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Clap Sensitive Switch
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Smart Irrigation Using Arduino Moisture Sensor And Water Pump
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Mini Fm Transmitter
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Automated Door Bell Sensor
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Measurement Of Height Using Ultrasonic Sensor And Arduino
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Bluetooth Based On Home Automation Using Arduino
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Laser Light Security System
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Temperature Based Fan Speed Control With Arduino Uno
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Gas And Smoke Detector
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Li-Fi Technology

ELECTRONICS & ELECTRONICS ENGINEERING	EE			Energy Generation Using Magnetic Coil
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Water Level Controller
SECOND YEAR				
Program name	Program code	Name of the Course that include experiential learning through project work/field work/internship	Course code	Details of Experiential Learning through Projects/ Internship
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Electric Circuit Analysis	18EE32	Infrared Sanitizer Dispenser
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Analog Electronic Circuits	18EE34	Automatic Sanitizer Dispenser
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Digital System Design	18EE35	Laser Security System
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Electrical and Electronic Measurements	18EE36	Fire Alarm Detector
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Electrical Machines Laboratory -1	18EEL37	Light Sensor Circuit Security System
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Electronics Laboratory	18EEL38	Laser Security Alarm System With Mirror Reflection
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Electrical Machines Laboratory -2	18EEL47	Automatic Street Light Using Ldr
ELECTRONICS & ELECTRONICS ENGINEERING	EE	Op- amp and Linear ICs Laboratory	18EEL48	Non Contact Ac Voltage Detector
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Voice Recognition Based On And Off Led Light Using Bluetooth Module
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Rain Water Detector
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Wireless Power Transmission
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Water Tank Over Load Alarm
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Wireless Communication Using Transceiver Module
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Touch Sensor
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Fire Sensor
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Smoke Detector Alarm
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Laser Light Security Alarm System
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Simulation Of On Board Electric Vehicle Charger
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Cellphone Detector
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Mini Telsa Coil
ELECTRONICS & ELECTRONICS ENGINEERING	EE			Automatic Street Light Model Using Proximity Sensor


HOD, EEE

PROF & HOD
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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, AGAVI
Scheme of Teaching and Examination 2017-2018
Choice Based Credit System (CBCS)

B.E: ELECTRICAL AND ELECTRONICS ENGINEERING
CHOICE BASED CREDIT SYSTEM (CBCS)

VII SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17EE71	Power System Analysis – 2(Core)	EEE	04		03	60	40	100	4
2	17EE72	Power System Protection(Core)	EEE	04		03	60	40	100	4
3	17EE73	High Voltage Engineering(Core)	EEE	04		03	60	40	100	4
4	17EE74X	Professional Elective – III	EEE	03		03	60	40	100	3
5	17EE75Y	Professional Elective – IV	EEE	03		03	60	40	100	3
6	17EEL76	Power system Simulation Laboratory	EEE	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
7	17EEL77	Relay and High Voltage Laboratory	EEE	01-Hour Instruction 02-Hour Practical		03	60	40	100	2
8	17EEP78	Project Work Phase-I + Project work Seminar	EEE		03	--	--	100	100	2
TOTAL				Theory:18 hours Practical and Project: 09 hours		21	420	380	800	24

Professional Elective-3		Professional Elective-4	
17EE741	Advanced Control Systems	17EE751	FACTs and HVDC Transmission
17EE742	Utilization of Electrical Power	17EE752	Testing and Commissioning of Power System Apparatus
17EE743	Carbon Capture and Storage	17EE753	Spacecraft Power Technologies
17EE744	Power System Planning	17EE754	Industrial Heating

1. Project Phase – I and Project Seminar: Comprises of Literature Survey, Problem identification, Objectives and Methodology. CIE marks shall be based on the report covering Literature Survey, Problem identification, Objectives and Methodology and Seminar presentation skill.

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VIII SEMESTER

Sl. No	Course Code	Title	Teaching Department	Teaching Hours /Week		Examination				Credits
				Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17EE81	Power System Operation and Control (Core)	EEE	4	-	3	60	40	100	4
2	17EE82	Industrial Drives and Applications(Core)	EEE	4	-	3	60	40	100	4
3	17EE83X	Professional Elective-5	EEE	3	-	3	60	40	100	3
4	17EE84	Internship/ Professional Practice (Core)	EEE	Industry Oriented		3	50	50	100	2
5	17EEP85	Project Work-II(Core)	EEE	-	6	3	100	100	200	6
6	17EES86	Seminar (Core)	EEE	-	4	-	-	100	100	1
TOTAL				Theory: 11 hours Project and Seminar: 10 hours		15	330	370	700	20

Professional Elective -5	
17EE831	Smart Grid
17EE832	Operation and Maintenance of Solar Electric Systems
17EE833	Integration of Distributed Generation
17EE834	Power System in Emergencies

1. **Internship/ Professional Practice:** 4 Weeks internship to be completed between the (VI and VII semester vacation) and/or (VII and VIII semester vacation) period.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Scheme of Teaching and Examination 2018 – 19
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

V SEMESTER

SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
1	PCC	18 EE51	Management and Entrepreneurship	EEE	3	0	--	03	40	60	100	3
2	PCC	18 EE52	Microcontroller	EEE	3	2	--	03	40	60	100	4
3	PCC	18 EE53	Power Electronics	EEE	3	2	--	03	40	60	100	4
4	PCC	18 EE54	Signals and Systems	EEE	3	--	--	03	40	60	100	3
5	PCC	18 EE55	Electrical Machine Design	EEE	3	--	--	03	40	60	100	3
6	PCC	18 EE56	High Voltage Engineering	EEE	3	--	--	03	40	60	100	3
	PCC	18 EEL57	Microcontroller Laboratory	EEE	--	2	2	03	40	60	100	2
8	PCC	18 EEL58	Power Electronics Laboratory	EEE	--	2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental	1	--	--	02	40	60	100	1
				[Paper setting: Civil Engineering Board]								
TOTAL					18	10	4	26	360	540	900	25

Note: PCC: Professional Core, HSMC: Humanity and Social Science.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.


Principal

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VI SEMESTER

I SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	PCC	18 EE61	Control Systems	EEE	3	2	--	03	40	60	100	4
2	PCC	18 EE62	Power System Analysis – I	EEE	3	2	--	03	40	60	100	4
3	PCC	18 EE63	Digital Signal Processing	EEE	3	2	--	03	40	60	100	4
4	PEC	18 EE64X	Professional Elective -I	EEE	3	--	--	03	40	60	100	3
5	OEC	18 EE65X	Open Elective -A	EEE	3	--	--	03	40	60	100	3
6	PCC	18 EEL66	Control System Laboratory	EEE	--	2	2	03	40	60	100	2
7	PCC	18 EEL67	Digital Signal Processing Laboratory	EEE	--	2	2	03	40	60	100	2
8	MP	18 EEMP68	Mini-project		--	--	2	03	40	60	100	2
	Internship	--	Internship	To be carried out during the vacation/s of VI and VII semesters and /or VII and VIII semesters.								
TOTAL					15	10	06	24	320	480	800	24

Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project.

Professional Elective -I

Course code under 18XX64X	Course Title
18 EE641	Introduction to Nuclear Power
18 EE642	Electrical Engineering Materials
18 EE643	Computer Aided Electrical Drawing
18 EE644	Embedded System
18 EE645	Object Oriented Programming using C++
18EE646	Electric Vehicles Technologies
18EE647	Sensors and Transducers

Open Elective -A

Students can select any one of the open electives offered by other Departments except those that are offered by the parent Department (Please refer to the list of open electives under 18XX65X).

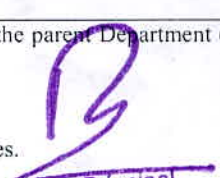
Selection of an open elective shall not be allowed if,

The candidate has studied the same course during the previous semesters of the programme.

The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.

A similar course, under any category, is prescribed in the higher semesters of the programme.

Registration to electives shall be documented under the guidance of Programme Coordinator/ Advisor/Mentor.


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Mini-project work:

Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini-project can be assigned to an individual student or to a group having not more than 4 students.

CIE procedure for Mini-project:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the Mini-project work, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all the guides of the college.

The CIE marks awarded for the Mini-project, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Mini-project:

(i) Single discipline: Contribution to the Mini-project and the performance of each group member shall be assessed individually in the semester end examination (SEE) conducted at the department.

(ii) Interdisciplinary: Contribution to the Mini-project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted separately at the departments to which the student/s belong to.

Internship: All the students admitted to III year of BE/B.Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be considered as a head of passing and shall be considered for the award of degree. Those, who do not take-up/complete the internship shall be declared fail and shall have to complete during subsequent University examination after satisfying the internship requirements.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
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Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
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III SEMESTER

III SEMESTER													
Sl. No	Course and Course Code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks		
													L
1	BSC	18MAT31	Transform Calculus, Fourier Series and Numerical Techniques (Common to all Branches)	Mathematics	2	2	--	03	40	60	100	3	
2	PCC	18EE32	Electric Circuit Analysis	EEE	3	2	--	03	40	60	100	4	
3	PCC	18EE33	Transformers and Generators	EEE	3	0	--	03	40	60	100	3	
4	PCC	18 EE 34	Analog Electronic Circuits	EEE	2	2	--	03	40	60	100	3	
5	PCC	18 EE 35	Digital System Design	EEE	3	0	--	03	40	60	100	3	
6	PCC	18 EE 36	Electrical and Electronic Measurements	EEE	3	0	--	03	40	60	100	3	
	PCC	18 EE L37	Electrical Machines Laboratory -I	EEE	--	2	2	03	40	60	100	2	
8	PCC	18 EE L38	Electronics Laboratory	EEE	--	2	2	03	40	60	100	2	
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1	
		18KAK39/49	Aadalitha Kannada (Kannada for Administration)										
		OR											
		18CPC39	Constitution of India, Professional Ethics and Cyber Law		1	--	--	02	40	60			
		Examination is by objective type questions											
TOTAL					16	10	04	24	420	480	900	24	
					OR	OR		OR	OR	OR			
					17	12		26	360	540			

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.

18KVK39Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

10	NCMC	18MATDIP31	Additional Mathematics - I	Mathematics	02	01	--	03	40	60	100	0
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The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B. Tech. programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

(b)These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE Activity Points to be earned by students admitted to BE/B. Tech/B. Plan day college programme (For more details refer to Chapter

6,AICTE Activity Point Programme, Model Internship Guidelines):

Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other Universities to fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card.

The activities can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, minimum hours' requirement should be fulfilled. Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression.

In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points.

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IV SEMESTER

FIVE SEMESTER												
Sl. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P					
1	BSC	18MAT41	Complex analysis, probability and statistical methods	Mathematics	2	2	--	03	40	60	100	3
2	PCC	18 EE42	Power Generation and Economics	EEE	3	0	--	03	40	60	100	3
3	PCC	18 EE43	Transmission and Distribution	EEE	3	2	--	03	40	60	100	4
4	PCC	18 EE44	Electric Motors	EEE	3	0	--	03	40	60	100	3
5	PCC	18 EE45	Electromagnetic Field Theory	EEE	2	2	--	03	40	60	100	3
6	PCC	18 EE46	Operational Amplifiers and Linear ICs	EEE	3	0	--	03	40	60	100	3
7	PCC	18 EEL47	Electrical Machines Laboratory -2	EEE	--	2	2	03	40	60	100	2
	PCC	18 EEL48	Op- amp and Linear ICs Laboratory	EEE	--	2	2	03	40	60	100	2
9	HSMC	18KVK39/49	Vyavaharika Kannada (Kannada for communication)/	HSMC	--	2	--	--	100	--	100	1
		18KAK39/49	Aadalitha Kannada (Kannada for Administration)									
		OR										
		18CPH49	Constitution of India, Professional Ethics and Cyber Law									
		Examination is by objective type questions										
TOTAL					16	10	04	24	420	480	900	24
					OR	OR		OR	OR			
					17	12		26	360	540		

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course.

18KVK39/49 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39/49 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs

10	NCMC	18MATDIP41	Additional Mathematics - II	Mathematics	02	01	--	03	40	60	100	0
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(a) The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B. Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent semester/s to appear for SEE.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.



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