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SRI VASAVI ENGINEERING COLLEGE (AUTONOMOUS)
(Sponsored by Sri Vasavi Educational Society)
Approved by AICTE, New Delhi and Permanently Affiliated to JNTUK, Kakinada
Pedatadepalli, **TADEPALLIGUDEM – 534 101,** W.G. Dist, (A.P.)

Department of Civil Engineering

COURSE STRUCTURE PROPOSED FOR APPROVAL IN 5TH BOS MEETING

V SEMESTER

S.No	Course Code	Course Title	Hours per week			Credits
			L	T	P	
1	V20CET09	Structural Analysis - II	3	0	0	3
2	V20CET10	Geotechnical Engineering	3	0	0	3
3	V20CET11	Design of Reinforced Concrete Structures	3	0	0	3
4	V20CET12 V20CET13 V20CET14 V20CET15 V20CET16	Professional Elective Course I 1. Advanced Concrete Technology 2. Irrigation Engineering 3. Traffic Engineering & Management 4. Air Pollution and Control 5. Geo Environmental Engineering	3	0	0	3
5		Open Elective Course I / Job Oriented Elective	0	0	6	3
6	V20CEL07	Geotechnical Engineering Lab	0	0	3	1.5
7	V20CEL08	Structural detailing using Auto CAD Lab	0	0	3	1.5
8	V20SOC03	Skill Advanced Course /Soft Skills Course	1	0	2	2
9	V20ENT04	Professional Communication Skills-III (MNC) (BOS of English)	2	0	0	0
10	V20CESI1	Summer Internship / Mini Project	0	0	0	1.5
		Total	15	0	14	21.5

Total Contact Hours : 27   Total Credits : 21.5

VII SEMESTER

S.No	Course Code	Course Title	Hours per week			Credits
			L	T	P	
1	V20CET25 V20CET26 V20CET27 V20CET28 V20CET29	Professional Elective Course III 1. Pre stressed Concrete 2. Advanced Foundation Engineering 3. Ground Water Development 4. Highway Construction and Management 5. Environmental Impact Assessment and Management	3	0	0	3
2	V20CET30 V20CET31 V20CET32 V20CET33 V20CET34	Professional Elective Course IV 1. Finite Element Methods 2. Engineering with Geo-synthetics 3. Urban Transportation Planning 4. Solid Waste Management 5. Prefabricated Structures	3	0	0	3
3	V20CET35 V20CET36 V20CET37 V20CET38 V20CET39	Professional Elective Course V 1. Earthquake Engineering 2. Ground Improvement Techniques 3. Rural Water Supply and onsite sanitation Systems 4. Metro Systems and Engineering 5. Architecture and Town Planning	3	0	0	3
4		Open Elective Course III / Job oriented	3	0	0	3
5		Open Elective Course IV / Job oriented	3	0	0	3
6	V20MBT54	Humanities and Social Science Elective Universal Human Values-II (BOS of MBA)	3	0	0	3
7	V20SOC05	Skill Advanced Course	1	0	2	2
8	V20CESI2	Summer Internship / Mini Project	0	0	0	3
		Total	19	0	2	23

Total Contact Hours : 23   Total Credits : 23

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Department of Electrical & Electronics Engineering (NBA Accredited)

Semester VI

S. No	Code	Course Title	L	T	P	Credits
1	V20EET18	Power System Analysis	3	1	0	3
2	V20EET19	Electrical Drives	3	0	0	3
3	V20EET20	Microprocessors & Microcontrollers	3	0	0	3
4	V20EET21 V20EET22 V20EET23 V20EET24	Professional Elective-II 1. Smart Grid Technologies 2. Power Quality & Custom Power Devices 3. Modern Control Theory 4. IoT Applications In Electrical Engineering	3	0	0	3
5		Open Elective –II	3	0	0	3
6	V20EEL09	Power Systems Lab	0	0	3	1.5
7	V20EEL10	Power Electronics & Simulation Lab	0	0	3	1.5
8	V20EEL11	Microprocessors & Microcontrollers Lab	0	0	3	1.5
9	V20CEMC01	IPR & Patents	2	0	0	0
10	V20SOSO4	Skill advanced Course	1	0	2	2
Total Credits						**21.5**

Industrial/Research Internship (Mandatory) 2 Months during summer vacation	
Category	Credits
Professional Core Courses	13.5
Professional Elective Courses	3
Open Elective Course/Job Oriented Elective	3
Skill advanced Course/ Soft Skill Course*	2
Mandatory Course (AICTE)	0
Industrial/Research Internship (Mandatory) 2 Months	-
Total Credits	21.5

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Department of Electrical & Electronics Engineering (NBA Accredited)

Semester VII

S. No	Code	Course Title	Hours			Credits
			L	T	P	
1	V20EET25 V20EET26 V20EET27 V20EET28	Professional Elective-III 1. Extra High Voltage AC Transmission 2. Power System Operation and Control 3. Digital Control Systems 4. Electrical Machine Modelling & Analysis	3	0	0	3
2	V20EET29 V20EET30 V20EET31 V20EET32	Professional Elective-IV 1. High Voltage Engineering 2. Electrical Distribution Systems 3. Power System Reforms 4. Advanced Power Electronics	3	0	0	3
3	V20EET33 V20EET34 V20EET35 V20EET36	Professional Elective-V 1. Special Electrical Machines 2. AI Techniques for Power Systems 3. Energy Storage and Battery Management 4. Hybrid Electric Vehicles	3	0	0	3
4		Open Elective – III	3	0	0	3
5	V20EEL12	Advanced Electrical Simulation Lab	0	0	6	3
6	V20MBT54	Universal Human Values	3	0	0	3
	V20SOCO5	Skill advanced Course	1	0	2	2
Industrial/Research Internship 2 Months (Mandatory) after third year (to be evaluated during VII semester			0	0	0	3
Total Credits						**23**

Category	Credits
Professional Elective Courses	9
Open Elective Course/Job Oriented Elective	6
Humanities and Social Science Elective	3
Skill advanced Course/ Soft Skill Course*	2
Industrial/Research Internship	3
Total Credits	23

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DEPARTMENT OF MECHANICAL ENGINEERING

Course structure under V20 Regulations

(For 2020 – 2021 Admitted Batch)

			VII SEMESTER				
S. No	**Category**	**Course Code**	**Course Title**	**Hours per week**			
				L	**T**	**P**	**C**
1	Professional Elective courses		Professional Elective III	3	0	0	3
2	Professional Elective courses		Professional Elective IV	3	0	0	3
3	Professional Elective courses		Professional Elective V	3	0	0	3
4	Open Elective Course/Job oriented elective		Open Elective / Job Oriented Elective Course – III	3	0	0	3
5	Open Elective Course/Job oriented elective		Open Elective / Job Oriented Elective Course – IV	3	0	0	3
6	*Humanities and Social Science Elective		Universal Human Values	3	0	0	3
	Skill advanced course/ soft skill course*	V20SOC04	Certificate course offered by industries/Professional bodies/APSSDC or any other accredited bodies.	1	0	2	2
	Industrial/Research Internship (Mandatory) after third year (to be evaluated during VII semester			0	0	0	3
	Total Credits			19	0	2	23

Total Contact Hours: 21 Total Credits: 23

			VIII SEMESTER				
S. No	**Category**	**Course Code**	**Course Title**	**Hours per week**			
				L	**T**	**P**	**C**
1	Major Project	V20MEP01	Project Project work, seminar and internship in industry	0	0	0	12
			INTERNSHIP (6 MONTHS)				
	Total Credits			0	0	0	12

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Department of Electrical and Communication Engineering

V Semester:

S. No	CourseCode	Course- Category	& Course Name	L	T	P	Credits
1	V20ECT10	PCC	VLSI Design	3	0	0	3
2	V20ECT11	PCC	Microprocessors & Microcontrollers	3	0	0	3
3	V20ECT12	PCC	Analog Circuits	3	0	0	3
4	V20ECT13 V20ECT14	PEC	**Professional Elective-I** Antenna &Wave Propagation Information Theory & Coding	3	0	0	3
5		OEC/JOE	**Open Elective-I / Job Oriented Elective**	3	0	0	3
6	V20ECL06	PCC	VLSI Design Lab	0	0	3	1.5
7	V20ECL07	PCC	Microprocessor & Microcontrollers Lab	0	0	3	1.5
8	V20ECSOC03	SOC	Skill Oriented Course	1	0	2	2
9	V20ENT04	MNC	Professional Comm. skills-III	2	0	0	0
10		Mandatory	Summer Internship- Mandatory	0	0	0	1.5
				18	0	08	21.5

TOTAL Contact Hours 26   **Total Credits : 21.5**

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Department of Computer Science and Engineering

V SEMESTER (THIRD YEAR)

S.No.	Course Code	Name of the Course		L	T	P	C
1	V20CST10	Operating Systems	PCC	3	0	0	3
2	V20CST11	Data Mining	PCC	3	0	0	3
3	V20CST12	Web Technologies	PCC	3	0	0	3
4		**Open Elective -I / Job Oriented Elective-I**	OEC	3	0	0	3
			JOE	0	0	6	
5	**Professional Elective-I**		PEC	3	0	0	3
	V20CSTPE01	Software Testing Methodologies					
	V20CSTPE02	Principles of Programming Languages					
	V20CSTPE03	Artificial Intelligence					
	V20CSTPE04	Computer Graphics					
6	V20CSL09	Data Mining Lab	PCC	0	0	3	1.5
7	V20CSL10	Web Technologies Lab	PCC	0	0	3	1.5
8	V20SOC03	Skill Oriented Course-III (Soft Skills)	SOC/SS	1	0	2	2
9	V20CSP01	Mini Project / Internship	Internship	0	0	3	1.5
10	V20ENT04	Professional Communication Skills -III	MNC	2	0	0	0
			Total	15	0	17	21.5

Total Contact Hours: 32   **Total Credits: 21.5**

VI SEMESTER (THIRD YEAR)

S.No.	Course Code	Name of the Course		L	T	P	C
1	V20CST13	Computer Networks	PCC	3	0	0	3
2	V20CST14	Machine Learning	PCC	3	0	0	3
3	V20CST15	Automata and Compiler Design	PCC	3	0	0	3
4		**Open Elective -II / Job Oriented Elective-II**	OEC	3	0	0	3
			JOE	0	0	6	
5	**Professional Elective-II**		PEC	3	0	0	3
	V20CSTPE05	Object Oriented Software Engineering					
	V20CSTPE06	Advanced Data Structures					
	V20CSTPE07	Data Science					
	V20CSTPE08	Cryptography &Network Security					
6	V20CSL11	Computer Networks Lab	PCC	0	0	3	1.5
7	V20CSL12	Machine Learning Lab using Python	PCC	0	0	3	1.5
8	V20CSL13	Unified Modeling Language Lab	PCC	0	0	3	1.5
9	V20SOC04	Skill Oriented Course-IV*	SOC	1	0	2	2
10	V20CEMC02	Professional Ethics & Human Values	MNC	2	0	0	0
			Total	15	0	17	21.5

Total Contact Hours: 32   **Total Credits: 21.5**

S.No.	Course Code	Name of the Course		L	T	P	C
1		**Professional Elective-III**	PEC	3	0	0	3
	V20CSTPE09	Advanced Computer Architecture					
	V20CSTPE10	Big Data Analytics					
	V20CSTPE11	Deep Learning					
	V20CSTPE12	Human Computer Interaction					
2		**Professional Elective-IV**	PEC	3	0	0	3
	V20CSTPE13	Design Patterns					
	V20CSTPE14	NoSQL Databases					
	V20CSTPE15	Reinforcement Learning					
	V20CSTPE16	Cloud Computing					
3		**Professional Elective-V**	PEC	3	0	0	3
	V20CSTPE17	Software Project Management					
	V20CSTPE18	Scripting Languages					
	V20CSTPE19	Natural Language Processing					
	V20CSTPE20	Social Networks and Semantic Web					
4		**Open Elective -III / Job Oriented Elective –III**	OEC	3	0	0	3
			JOE	0	0	6	
5		**Open Elective -IV / Job Oriented Elective – IV**	OEC/JOE	3	0	0	3
6	V20MBT52	Management Science	HSS	3	0	0	3
7	V20SOC05	Skill Oriented Course-V*	SOC	1	0	2	2
8	V20CSP02	Mini Project /Internship	Internship	0	0	6	3
			Total	**16**	**0**	**14**	**23**

Total Contact Hours: 30   **Total Credits: 23**

* The Student need to select one Skill Oriented Course from the given pool of courses.

S.No.	Course Code	Name of the Course		L	T	P	C
1	V20CSP03	Internship/ Industrial Training /Practical training	PRO	0	0	4	2
2	V20CSP04	Major Project (6 Months)	PRO	0	0	12	6
			Total	**0**	**0**	**16**	**8**

Total Contact Hours: 16   **Total Credits: 08**

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Department of Electrical and Communication Technology

V Semester:

S. No	CourseCode	Course- Category	& Course Name	L	T	P	Credits
1	V20ECT10	PCC	VLSI Design	3	0	0	3
2	V20ECT11	PCC	Microprocessors & Microcontrollers	3	0	0	3
3	V20ECT12	PCC	Analog Circuits	3	0	0	3
4	V20ECT13 V20ECT14	PEC	**Professional Elective-I** Antenna &Wave Propagation Information Theory & Coding	3	0	0	3
5		OEC/JOE	**Open Elective-I / Job Oriented Elective**	3	0	0	3
6	V20ECL06	PCC	VLSI Design Lab	0	0	3	1.5
7	V20ECL07	PCC	Microprocessor & Microcontrollers Lab	0	0	3	1.5
8	V20ECSOC03	SOC	Skill Oriented Course	1	0	2	2
9	V20ENT04	MNC	Professional Comm. skills-III	2	0	0	0
10		Mandatory	Summer Internship- Mandatory	0	0	0	1.5
				18	0	08	21.5

TOTAL Contact Hours 26   **Total Credits : 21.5**

VIII SEMESTER

S.No	Course Code	Course Title	Hours per week			Credits
			L	T	P	
1		Project work, seminar and internship in industry	0	0	24	12
		Total	0	0	24	12

Total Contact Hours: 0   Total Credits: 12

VII Semester

Sl. No.	Course Code	Course Title	Hours per week			Category	Credits
			L	T	P		C
1	V20ECT20 V20ECT21	**Prof. Elective III:** • Digital Image Processing • Computer Networks	3	0	0	Prof. Elective Course	3
2	V20ECT22 V20ECT23	**Prof. Elective IV:** • Cellular Mobile Communication • Low Power VLSI Design	3	0	0	Prof. Elective Course	3
3	V20ECT24 V20ECT25	**Prof. Elective V:** • Radar Engineering • CMOS Digital IC Design	3	0	0	Prof. Elective Course	3
4		**Open Elective-II/ Job Oriented Elective**	2	0	2	Open Elective Course	3
5		**Open Elective-III / JobOriented Elective**	2	0	2	Open Elective Course	3
6		**Open Elective-IV / JobOriented Elective**	2	0	2	Open Elective	3
7	V20ECSOC05	Skill Advanced Course	1	0	2	Skill Advanced Course	2
8		Industrial Internship-Mandatory after Third Year to be Evaluated during VIISemester	0	0	0	Mandatory	3
		Total	18	0	6		23

VIII Semester

Sl. No.	Course Code	Course Title	Hours per week			Category	Credits
			L	T	P		C
1	V20ECP01	Project Work, Seminar and Internship in Industry	0	0	0	Major Project	12
		Total	0	0	0		12

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Department of B.Tech in Computer Science & Engineering(Artificial Intelligence)

SEMESTER-III (SECOND YEAR)

S.No.	Course Code	Name of the Course		L	T	P	C
1	V20MBT51	Managerial Economics and Financial Analysis	HSS	3	0	0	3
2	V20MAT11	Probability Theory	BSC	3	0	0	3
3	V20MAT07	Mathematical Foundation of Computer Science	BSC	3	0	0	3
4	V20AIT02	Advanced Python Programming	PCC	3	0	0	3
5	V20AIT03	Database Management Systems	PCC	3	0	0	3
6	V20AIL03	Advanced Python Programming Lab	PCC	0	0	3	1.5
7	V20AIL04	Linux Shell Scripting Lab	PCC	0	0	3	1.5
8	V20AIL05	Database Management Systems Lab.	PCC	0	0	3	1.5
9	V20CSP01	Community Service Project	CSP	0	0	8	4
10	V20SOC01	Skill Oriented Course-I*	SO	1	0	2	2
11	V20ENT02	Professional Communication Skills -I	MNC	2	0	0	0
			Total:	**18**	**0**	**11**	**25.5**

Total Contact Hours: 37   **Total Credits: 25.5**

SEMESTER - IV (SECOND YEAR)

S.No.	Course Code	Name of the Course		L	T	P	C
1	V20AIT04	Computer Organization and Architecture	PCC	3	0	0	3
2	V20AIT05	Design and Analysis of Algorithms	PCC	3	0	0	3
3	V20AIT06	Java Programming	PCC	3	0	0	3
4	V20AIT07	Operating Systems	PCC	3	0	0	3
5	V20AIT08	Artificial Intelligence and its Applications	PCC	3	0	0	3
6	V20AIL06	Java Programming Lab	PCC	0	0	3	1.5
7	V20AIL07	Operating Systems Lab	PCC	0	0	3	1.5
8	V20AIL08	Artificial Intelligence Lab	PCC	0	0	3	1.5
9	V20SOC02	Skill Oriented Course-II*	SO	1	0	0	2
10	V20ENT03	Professional Communication Skills -II	MNC	2	0	0	0
			Total:	**18**	**0**	**11**	**21.5**

Total Contact Hours: 29   **Total Credits: 21.5**

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Department of Civil Engineering

V18 Regulation

COURSE STRUCTURE PROPOSED FOR APPROVAL IN 4th BOS MEETING

VII SEMESTER

S.No	Course Code	Course Title	Hours per week			Credits
			L	T	P	C
1	V18CET25	Estimation, Specification and Contracts	3	0	0	3
2	V18CET26	Environmental Engineering - II	3	0	0	3
3	V18CET27 V18CET28 V18CET29 V18CET30 V18CET31	Professional Elective Course – 1 1. Pavement Analysis and Design 2. Air Pollution and Control 3. Irrigation Engineering 4. Bridge Engineering 5. Advanced Foundation Engineering	3	0	0	3
3	V18CET32 V18CET34 V18CET37 V18CET38 V18CET39	Professional Elective Course – 2 1. Traffic Engineering & Management 2. Construction Project Planning & Systems 3. Solid Waste Management 4. Ground Water Development 5. Earthquake Engineering	3	0	0	3
4		Open Elective Course – 2	3	0	0	3
6	V18CEPWA	Project Work Part - A	0	0	6	3
		Total	15	0	6	18

Total Contact Hours: 21
Total Credits: 18

VIII SEMESTER

S.No	Course Code	Course Title	Hours per week			Credits
			L	T	P	C
1	V18CET40 V18CET41 V18CET42 V18CET43 V18CET44	Professional Elective Course – 3 1. Highway Construction and Management 2. Repair and Rehabilitation of Structures 3. Rural Water Supply and onsite sanitation Systems. 4. Pre stressed Concrete 5. Engineering with Geo-synthetics	3	0	0	3
2	V18CET45 V18CET46 V18CET47 V18CET48 V18CET49	Professional Elective Course – 4 1. Urban Hydrology and Hydraulics 2. Environmental Impact Assessment and Management 3. Advanced Concrete Technology 4. Finite Element Methods 5. Ground Improvement Techniques	3	0	0	3
3		Open Elective Course – 3	3	0	0	3
4	V18CEPWB	Project Work Part - B	0	0	14	7
		Total	9	0	14	16

Total Contact Hours: 23
Total Credits: 16

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DEPARTMENT OF MECHANICAL ENGINEERING

Course Structure of Mechanical Engineering - V18 Regulation
(For 2018 – 2019 Admitted Batch)

IV B.Tech

VII Semester						
S.No.	Course Code	Course	L	T	P	Credits
1	V18MET20	Automation in manufacturing	3	0	0	3
2	V18MET21	Operation Research	3	0	0	3
3		Professional Elective – II	3	0	0	3
4		Professional Elective – III	3	0	0	3
5		Open Elective – II	3	0	0	3
6	V18MEL12	Simulation Lab	0	0	3	1.5
7	V18MEL13	Production Drawing Lab	0	0	3	1.5
8	V18MEL14	Project Work –PART-A	0	0	9	3
			15	0	15	21

Contact hours: 30 Total Credits: 21

VIII Semester						
S.No.	Course Code	Course	L	T	P	Credits
	V18MET28	Automobile Engineering	3	0	0	3
1		Open Elective – III	3	0	0	3
2		Professional Elective - IV	3	0	0	3
3		Professional Elective –V	3	0	0	3
4	V18MEL15	Project Work – PART-B	0	0	18	9
			12	0	18	21

Contact hours : 30 Total Credits : 21

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Department of Electrical and Communication Engineering

VII Semester

Sl. No	Course Code	Category	Course Title	Hours per week			Credits
				L	T	P	C
1	V18ECT20	Professional Core Courses	Radar Engineering	3	0	0	3
2	V18ECT21	Professional Core Courses	Optical Communication	3	0	0	3
3	V18ECT22	Professional CoreCourses	Digital Image Processing	3	0	0	3
4	V18ECT24 V18ECT25 V18ECT26	Prof. Elective Course	**Prof. Elective 3:** • IOT: Use Cases • CMOS Analog IC Design • Digital TV Engg.	3	0	0	3
5	V18ECT27 V18ECT28 V18ECT29	Prof. Elective Course	**Prof. Elective 4:** • Low Power IC Design • System On Chip • System Design ThroughVerilog	3	0	0	3
6	V18ECTOE4 V18ECTOE5 V18ECTOE6	Open Elective Course	**Open Elective-2:** • Principles of Wireless Comm. • Medical Electronics • Concepts of Embedded Systems	3	0	0	3
7	V18ECL11	Professional Core Course Lab	Microwave & Optical Comm. Lab	0	0	2	1
8	V18ECPR01	Project	Project	0	0	6	3
			Total	18	0	8	22

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Pedatadepalli, **TADEPALLIGUDEM – 534 101,** W.G. Dist, (A.P.)

Department of Computer Science and Engineering

IV B.TECH

VII - Semester

S.No	Course Code	Course	L	T	P	C
1	V18CST27	Advanced Java and Web Technologies	3	0	0	3
2	V18MBT52	Management Science	3	0	0	3
	Elective – III					
3	V18CST28	1. Advanced Operating Systems	3	0	0	3
	V18CST29	2. Statistics with R Programming				
	V18CST30	3. Information Retrieval Systems				
	V18CST31	4 Human Computer Interaction				
	Elective – IV					
4	V18CST32	1.Distributed Systems	3	0	0	3
	V18CST33	2.Scripting Languages				
	V18CST34	3.Deep Learning				
	V18CST35	4.Social Networks and semantic web				
5	**Open Elective – II** (Interdisciplinary)	**OPE II(1-3)**	3	0	0	3
6	V18CSL10	Advanced Java and Web Technologies Lab	0	0	2	1
7	V18CSP01	Project Work (Part-A)	0	0	6	3
		Total	15	0	9	19

Total Contact Hours: 24

VIII - Semester

S.No.	Course Code	Course	L	T	P	C
	Elective – V					
1	V18CST36	1. Software Project Management	3	0	0	3
	V18CST37	2. Big Data Analytics				
	V18CST38	3. Soft Computing				
	V18CST39	4. Cloud Computing				
	Elective – VI					
2	V18CST40	1. Software Architecture and Design Patterns	3	0	0	3
	V18CST41	2. Middleware Technologies				
	V18CST42	3. Natural Language Processing				
	V18CST43	4. Cyber Security				
3	**Open Elective – III** (Interdisciplinary)	**OPE III(1-3)**	3	0	0	3
4	V18CSP02	Project Work (Part-B)	0	0	16	8
		Total	9	0	16	17

Total Contact Hours: 25

III B.TECH

V - Semester

S.No	Course Code	Course	L	T	P	C
1	V18CST10	Database Management Systems	3	0	0	3
2	V18CST11	Computer Networks	3	0	0	3
3	V18CST12	Operating Systems	3	0	0	3
4	V18CST13	Design and Analysis of Algorithms	3	0	0	3
5	V18CST14	Unix Programming	3	0	0	3
6	**Elective – I**					
	V18CST15	1.Advanced Computer Architecture	3	0	0	3
	V18CST16	**2.Advanced Data Structures**				
	V18CST17	3.Artificial Intelligence				
	V18CST18	4.Computer Graphics				
7	V18MBET53	Organizational Behavior	3	0	0	3
8	V18CSL06	Database Management Systems Lab	0	0	3	1.5
9	V18CSL07	Operating System and Unix Lab	0	0	3	1.5
10	V18ENT05	Professional Communication Skills -III	4	0	0	MNC
11	V18CST62	Technical Skills-III	4	0	0	MNC
		Total	29	0	6	24

Total Contact Hours: 35

VI - Semester

S.No.	Course Code	Course	L	T	P	C
1	V18CST19	Compiler Design	3	0	0	3
2	V18CST20	Data Mining	3	0	0	3
3	V18CST21	Object Oriented Analysis and Design through UML	3	0	0	3
4	V18CST22	Cryptography & Network Security	3	0	0	3
5	**Elective - II**		3	0	0	3
	V18CST23	1. Software Testing Methodologies				
	V18CST24	2. Principles of Programming Languages				
	V18CST25	3. Machine Learning				
	V18CST26	4. Image Processing				
6	**Open Elective – I (Interdisciplinary)**	**OPE I(1-3)**	3	0	0	3
7	V18CSL08	Object Oriented Analysis and Design through UML Lab	0	0	3	1.5
8	V18CSL09	Data Mining Lab	0	0	3	1.5
9	V18CSMPS	Mini Project with Seminar	0	0	4	2
10	V18ENT06	Professional Communication Skills -IV	4	0	0	MNC
11	V18CST63	Technical Skills-IV	4	0	0	MNC
		Total	26	0	10	23

Total Contact Hours: 36

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Department of Civil Engineering

S.No	Course Code	Course Name	L	T	P	C
1	V21STET18 V21STET19 V21STET20	Elective III/ MOOCS*/NPTEL* 1. Design of Prestressed Concrete Structures 2. Structural Health Monitoring 3. Industrial Structures 4. MOOCS-1 through NPTEL/SWAYAM 12 Week Programme related to the programme which is not listed in the course structure	3	0	0	3
2	V21MAT02 V21MBT56	Open Elective / MOOCS*/NPTEL* 1. Operational Research (BOS of Maths) 2. Cost Management for Engineering Projects (BOS of MBA) 3. MOOCS-2 through NPTEL/SWAYAM 12 Week Programme related to the programme which is not listed in the course structure	3	0	0	3
3	V21STEP02	Project Phase I	0	0	20	1 0
		Total	6	0	20	16

Total Contact Hours: 26
Total Credits : 16

IV SEMESTER

S.No	Course Code	Course Name	L	T	P	C
1	V21STEP03	Project Phase II	0	0	32	16
		Total	0	0	32	16

Total Contact Hours: 32
Total Credits : 16

II SEMESTER

S.No	Course Code	Course Name	L	T	P	C
1	V21STET09	Finite Element Methods in Structural Engineering	3	0	0	3
2	V21STET10	Stability of Structures	3	0	0	3
3	V21STET11 V21STET12 V21STET13	Elective III 1. Theory of Plates and Shells 2. Advanced Steel Design 3. Analysis of Offshore Structures	3	0	0	3
4	V21STET14 V21STET15 V21STET16	Elective IV 1. Earthquake Resistant Design ofBuildings 2. Precast and Prefabricated Structures 3. Earth Retaining Structures	3	0	0	3
5	V21STET17	Advanced Reinforced Concrete Design	2	0	0	2
6	V21STEL03	Structural Design laboratory	0	0	4	2
7	V21STEP01	Mini Project With Seminar	0	0	4	2
8		Audit Course -2	2	0	0	0
		Total	16	0	8	18

Total Contact Hours : 24
Total Credits : 18

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Department of Electrical and Electronics Engineering

S.No.	Course Code	Course Title	L	T	P	Credits	Marks
		M. Tech – II Semester					
1.	V21PET09	Switched Mode Power Conversion	3	0	0	3	100
2.	V21PET10	Real Time Control of Power Systems	3	0	0	3	100
3.	V21PET11 V21PET12 V21PET13	Elective – III: 1. Electrical Machine Modeling & Analysis 2. Control of Electric Drives 3. Application of Power Converters	3	0	0	3	100
4.	V21PET14 V21PET15 V21PET16	Elective – IV: 1. EHVAC Transmission 2. Flexible AC Transmission Systems 3. Power System Dynamics & Stability	3	0	0	3	100
5.	V21PEP01	Mini Project with Seminar	0	0	4	2	100
6.	V21PEL03	Power Converters Lab	0	0	4	2	100
7.	V21PEL04	Power Systems Simulation Lab	0	0	4	2	100
8.		Audit Course – II	2	0	0	0	100
			14	0	12	18	800

M. Tech – III Semester

S.No.	Course Code	Course Title	L	T	P	Credits	Marks
1.	V21PET17 V21PET18 V21PET19	Elective – V: 1. Hybrid Electric Vehicles 2. Soft Computing Techniques in Electrical Engineering 3. MOOCS-1 through NPTEL/ SWAYAM- 12 Week Program related to the programme which is not listed in the course structure	3	0	0	3	100
2.	V21OET01 V21MBT56 V21OET03	Open Elective : 1. Operations Research 2. Cost Management of Engineering Projects 3. MOOCs-2 Through NPTEL /SWAYAM - Any 12 week course on Engineering/ Management/ Mathematics offered by other than parent department	3	0	0	3	100
3.	V21PEP02	Dissertation Phase - I	0	0	20	10	50
			6	0	20	16	250

M. Tech – IV Semester

S.No.	Course Code	Course Title	L	T	P	Credits	Marks
1.	V21PEP03	Dissertation Phase – II	0	0	32	16	100
			0	0	32	16	100

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Department of Mechanical Engineering

I-SEMESTER

S.No	Course Code	Course	L	T	P	C
1	V21TET01	Advanced Fluid Mechanics	3	0	0	3
2	V21TET02	Computational Fluid Dynamics	3	0	0	3
3		**Program Elective – I**	3	0	0	3
4		**Program Elective – II**	3	0	0	3
5	V21TEL01	Computational Fluid Dynamics Lab –I	0	0	3	2
6	V21TEL02	Thermal Engineering Lab-I	0	0	3	2
7		Research Methodology And IPR (Under BOS of MBA)	2	0	0	2
8		Audit course-I (Under BOS of English & MBA)	2	0	0	0
		Total:	16	0	6	18

Total Contact Hours = 22

II-SEMESTER

S.No.	Course Code	Course	L	T	P	C
1	V21TET03	Advanced Heat and Mass Transfer	3	0	0	3
2	V21TET04	Thermal Measurements and Process Controls	3	0	0	3
3		**Program Elective – III**	3	0	0	3
4		**Program Elective -IV**	3	0	0	3
5	V21TEL03	Computational Fluid Dynamics Lab–II	0	0	3	2
6	V21TEL04	Thermal Engineering Lab-II	0	0	3	2
7	V21TET05	Mini Project with Seminar	2	0	0	2
8		Audit course-II (Under BOS of English & MBA)	2	0	0	0
		Total	16	0	6	18

Total Contact Hours = 22

III-SEMESTER

S.No	Course Code	Course	L	T	P	C
1		**Program Elective - V** (OR) **MOOCS-I Through NPTEL /SWAYAM**- 12 week Course related to the program which is not listed in the course structure.	3	0	0	3
2		**Open Elective** 1. Cost Management for Engineering Projects (Under BOS of MBA) 2. Operations Research (Under BOS of Maths) Students are advised to opt for an open elective course of their choice being offered by other Departments of the Institute (OR) **MOOCS-II Through NPTEL /SWAYAM**- Any 12weeek Course in Engineering/ Management certification courses duly approved by the Department.	3	0	0	3
3	V21TEL05	Dissertation phase –I	0	0	20	10
		Total	6	0	20	16

Total Contact Hours = 26

IV-SEMESTER

S.No.	Course Code	Course	L	T	P	C
1	V21TEL06	Dissertation phase –II	0	0	32	16
		Total	-	-	32	16

Total Contact Hours = 32
Total Credits (for all sem) = 68

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Department of Electrical and Communication Engineering

Course Structure for
M. Tech (Embedded Systems &VLSI) w.e.f A.Y 2021-22

I Semester

Sl. No.	Course Code	Course Name	L	T	P	C
1.	V21ESVT01	System Design through VERILOG	3	-	-	3
2.	V21ESVT02	Embedded Systems Design	3	-	-	3
3.	V21ESVT03 V21ESVT04 V21ESVT05	**ELECTIVE-1** Programming Languages for Embedded Systems Parallel processing System On Chip & Applications	3	-	-	3
4.	V21ESVT06 V21ESVT07 V21ESVT08	**ELECTIVE-II** Digital System Design CPLD & FPGA Architectures And Applications VLSI Signal Processing	3	-	-	3
5.		Research methodology and IPR	2	0	0	2
6.	V21ESVL01	System Design through Verilog Lab	-	-	4	2
7.	V21ESVL02	Embedded Systems Design Lab		-	4	2
8.	Aud. 1	Audit Course 1	2	0	0	0
			16	0	8	18

Total Contact Hours: 24   **Total Credits: 18**

II Semester

Sl. No.	Course Code	Course Name	L	T	P	C
1.	V21ESVT09	Analog and Digital CMOS VLSI Design	3	-	-	3
2.	V21ESVT10	Real Time Operating Systems	3	-	-	3
3.	V21ESVT11 V21ESVT12 V21ESVT13	**ELECTIVE-III** MEMS Technology & Applications Design for Testability Semiconductor Memory Design And Testing	3	-	-	3
4.	V21ESVT14 V21ESVT15 V21ESVT16	**ELECTIVE-IV** Hardware Software Co-Design Embedded Computing Communication Buses and Interfaces	3	-	-	3
5.	V21ESVL03	Analog and Digital CMOS VLSI Design Lab	-	-	4	2
6.	V21ESVL04	Real time Operating Systems Lab		-	4	2
7.	V21ESVL05	Mini project	0	0	4	2
8.	Aud. 2	Audit course 2	2	0	0	MNC
			14	0	12	18

Total Contact Hours: 26   **Total Credits: 18**

III Semester*

Sl. No.	Course Code	Course Name	L	T	P	Credits
1.	V21ESVT17 V21ESVT18 V21ESVT19	1.IOT and its Applications 2.Low Power VLSI Design 3.MOOCs Course	3	0	0	3
2.	V21ESVOE01	1.Operations Research 2.Cost Management of Engineering projects 3. MOOCs Course	3	0	0	3
3.	V21ESVP01	Dissertation phase-I/Industrial Project (to be continued and evaluated next semester)	0	0	20	10#
					Total Credits	16

Evaluated and Displayed in IV semester Marks list.

*Students going for Industrial project/Thesis will complete these courses through MOOCs

IV Semester

Sl. No.	Course Code	Course Name	P.Os	Category	L	T	P	C
1.	V21ESVP02	Project/Dissertation phase-II (continued from III semester)			0	0	32	16
						Total Credits		16

Total Credits : 66

M.Tech(CS) Programme Course Structure

(With effect from **2021-22** Admitted Batch onwards)

SEMESTER-I

S.No.	Course Code	Course	L	T	P	C
1	V21CTT01	**Program Core-1** Mathematical Foundations of Computer Science	3	-	-	3
2	V21CTT02	**Program Core-2** Advanced Data Structures	3	-	-	3
3	**Program Elective-I**					
	V21CTT03	1. Advanced Operating Systems	3	-	-	3
	V21CTT04	2. Advanced Computer Architecture				
	V21CTT05	3. Parallel Computing				
4	**Program Elective-II**					
	V21CTT06	1. Advanced Databases	3	-	-	3
	V21CTT07	2. Advanced Computer Networks				
	V21CTT08	3. Object Oriented Software Engineering				
5	V21MBT55	Research Methodology and IPR	2	-	-	2
6	V21CTL01	**Laboratory-1** Advanced Data Structures Lab	-	-	4	2
7	**Laboratory-2:** Advanced Computing Lab-1(*Lab programs based on elective taken by student may be offered*)		-	-	4	2
	V21CTL02	Advanced Operating Systems				
	V21CTL03	Parallel Computing				
	V21CTL04	Advanced Computer Networks				
	V21CTL05	Object Oriented Software Engineering				
8		**Audit Course-1***	2	-	-	0
		Total Credits	16	0	8	18

Student has to choose any one audit course listed below

SEMESTER-II

S.No.	Course Code	Course	L	T	P	C
1	V21CTT09	**Program Core-3** Web Technologies	3	-	-	3
2	V21CTT10	**Program Core-4** Data Science through Python Programming	3	-	-	3
3	**Program Elective-III**					
	V21CTT11	1. Machine Learning	3	-	-	3
	V21CTT12	2. Ad hoc and Sensor Networks				
	V21CTT13	3. Internet of Things				
4	**Program Elective-IV**					
	V21CTT14	1. Principles of Cyber Security	3	-	-	3
	V21CTT15	2. Cloud Computing				
	V21CTT16	3. Natural Language Processing				
7	V21CTL06	Advanced Web Technologies Lab	-	-	4	2
8	V21CTL07	Data Science Applications with Python Lab	-	-	4	2
9	V21CTM01	Mini Project with Seminar	2	-	-	2
10		**Audit Course-2***	2	0	0	0
		Total Credits	16	0	8	18

M.Tech(CS) Programme Course Structure
(With effect from **2021-22** Admitted Batch onwards)

SEMESTER-III

S.No.	Course Code	Course	L	T	P	C
1	**Program Elective-V**					
	V21CTT17	1. MOOCS-1 through NPTEL/ SWAYAM 12 Week Program related to the programme which is not listed in the course structure	3	-	-	3
	V21CTT18	2. Mobile Applications and Development				
	V21CTT19	3. Big Data Analytics				
2	**Open Elective**					
	V21CTT20	MOOCs-2 Through NPTEL /SWAYAM - Any 12 week course on Engineering/ Management/ Mathematics offered by other than parent department	3	-	-	3
	V21MAT02	Operations Research				
	V21MBT56	Cost Management of Engineering Projects				
3	V21CTP01	Dissertation-I/Industrial Project #	-	-	-	10
		Total Credits				16

#Students going for Industrial Project/Thesis will complete these courses through MOOCs

SEMESTER-IV

S.No.	Course Code	Course	L	T	P	C
1	V21CTP02	Dissertation-II	-	-	-	16
		Total Credits				16

M.Tech in Structural Engineering Programme Course Structure

Total Contact Hours:22

III SEMESTER

S.No	Code	Subject	L	P	C
1	V18SEL03	Comprehensive Viva-Voce			2
2	V18SEL04	Seminar-I			2
3	V18SEL05	Project Work Part-I			16
		Total Credits			20

IV SEMESTER

S.No	Code	Subject	L	P	C
1	V18SEL06	Seminar-II			2
2	V18SEL07	Project Work Part-II			18
		Total Credits			20

COURSE STRUCTURE OF M.TECH (POWER SYSTEM CONTROLL & AUTOMATION)

I SEMESTER

S.No.	Course Code	Course Title	L	T	P	Credits
1	V18PST01	Power System Operation & Control	3	-	-	3
2	V18PST02	Advanced Computer Methods in Power Systems	3	-	-	3
3	V18PST03	Advanced Power System Protection	3	-	-	3
4	V18PST04	Micro Controllers and Application	3	-	-	3
5	V18PST05 V18PST06 V18PST07 V18PST08	Elective – I: 1. Power System Reliability 2. Application of AI Techniques in Power Systems 3. Electrical Distribution Systems 4. Power System Security	3	-	-	3
6	V18PST09 V18PST10 V18PST11 V18PST12	Elective – II: 1. Reactive Power Compensation & Management 2. Power Quality 3. Power System Transients 4. Voltage Stability	3	-	-	3
7	V18PSL01	Power Systems Lab-I	-	-	4	2
8	V18PST41	Seminar-I	-	2	-	2
	Total Contact Hours: 24			Total Credits: 22		

II SEMESTER

S.No.	Course Code	Course Title	L	T	P	Credits
1	V18PST13	Modern Control Theory	3	-	-	3
2	V18PST14	Power System Dynamics & Stability	3	-	-	3
3	V18PST15	Solar & Wind Energy	3	-	-	3
4	V18PST16	Real Time Control of Power Systems	3	-	-	3
5	V18PST17 V18PST18 V18PST19 V18PST20	Elective – III: 1. Electrical and Hybrid Vehicles 2. Power System Deregulation 3. Smart Grid 4. High Voltage Engineering	3	-	-	3
6	V18PST21 V18PST22 V18PST23 V18PST24	Elective – IV: 1. Custom Power Devices 2. EHVAC Transmission 3. Demand Side Energy Management 4. HVDC & FACTS	3	-	-	3
7	V18PSL02	Power Systems Lab-II	-	-	4	2
8	V18PST42	Seminar-II	-	2	-	2
	Total Contact Hours: 24			Total Credits: 22		

MNC- Mandatory Non-Credit

III SEMESTER

S.No.	Course Code	Course Title	L	T	P	Credits
1	V18PST43	MOOCs	-	-	-	MNC
2	V18PST44	Comprehensive Viva-Voce	-	-	-	2
3	V18PSL05	Project Work	-	-	-	-
	Total Credits: 2					

IV SEMESTER

S.No.	Course Code	Course Title	L	T	P	Credits
1	V18PSL05	Project Work Part (Continued)	-	-	-	24
	Total Credits: 24					

M.Tech (VLSI & ES) Programme Course Structure

III Semester

S.No	Course Code	Name of the Course	L	P	C
1	V18VLL05	Comprehensive VIVA			2
2	V18VLL06	MOOCs			MNC
3	V18VLL07	Project work	-	-	-
		Total Credits			**2**

IV Semester

S.No	Course Code	Name of the Subject	L	P	C
1	V18VLL07	Project work (Continued)	-	-	24
		Total Credits			**24**

M.Tech Programme in Machine Design Course Structure

S.No.	Course Code	Course	L	T	P	C
1	VI8MDL05	MOOCS	-	-	4	MNC
2	VI8MDL06	Comprehensive Viva-Voce	-	-	-	2
3	VI8MDL07	Project Work	-	-	-	-
		Total	-	-	-	2

IV-SEMESTER

S.No.	Course Code	Course	L	T	P	C
1	VI8MDL07	Project Work	-	-	-	24
		Total	-	-	-	24

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Department of Master of Business Administration

Semester-III

SNo	Course Code	Course	L	P	C	I	E	TM
1	V18MBT14	Business Policy & Corporate Strategy	4	--	4	40	60	100
2	V18MBT15	Entrepreneurship Development	4	--	4	40	60	100
3	V18MBT16	E-Business	4	--	4	40	60	100
4		Elective-1	4	--	4	40	60	100
5		Elective-2	4	--	4	40	60	100
6		Elective-3	4	--	4	40	60	100
7		Elective-4	4	--	4	40	60	100
8	V18MBM01/ V18MBP01	MOOCs/ Mini Project	--	--	--	--	--	MNC
9	V18MAT07	Employability Skills III (Aptitude -1)	2	--	--	--	--	MNC
		TOTAL	30	--	28	280	420	700

Semester-IV

SNo	Course Code	Course	L	P	C	I	E	TM
1	V18MBT29	Logistics & Supply Chain Management	4	--	4	40	60	100
2	V18MBT30	Business Analytics	3	4	4	40	60	100
3		Elective-5	4	--	4	40	60	100
4		Elective-6	4	--	4	40	60	100
5		Elective-7	4	--	4	40	60	100
6		Elective-8	4	--	4	40	60	100
7	V18MBP02	Major Project & Viva voce	--	--	6	40	60	100
8	V18MAT08	Employability Skills IV (Aptitude-2)	2	--	--	--	--	MNC