☎08818-284577, 284355 Ext: 321; Fax: 08818-284577 Visit us at: www.srivasaviengg.ac.in

TADEPALLICUDEM

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

PROGRAMME OUTCOMES (POs)

Engineering Graduates will be able to:

1. Engineering knowledge: Apply the knowledge of Mathematics, Science, Engineering Fundamentals and an Engineering specialization to the solution of complex Civil Engineering problems.

2. Problem analysis: Identify, formulate, review research literature, and analyze complex Civil Engineering problems reaching substantiated conclusions using first principles of Mathematics, Natural Sciences and Engineering Sciences.

3. **Design/development of solutions:** Design solutions for complex civil engineering problems and design system components or processes that meet the specific needs with appropriate consideration for the public health and safety and the cultural, societal and environmental considerations.

4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern Engineering and IT tools including prediction and modeling to complex Civil Engineering activities with an understanding of the limitations.

6. **The Engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional Engineering practice.

7. Environment and sustainability: Understand the impact of the professional Civil Engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the Engineering practice.

9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. Communication: Communicate effectively on complex Civil Engineering activities with the Engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. **Project management and finance:** Demonstrate knowledge and understanding of the Engineering and Management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Out Comes (PSO'S)

Engineering Graduates will be able to:

- Apply the knowledge of basic sciences along with Engineering knowledge to exhibit the process involved in planning, analysis and design for Civil Engineering Problems
- 2. Conduct laboratory experiments / field investigations to tackle Civil Engineering problems with a significant perspective of economy, society and environment.
- 3. Create awareness on sustainable environment and societal concerns with ethical human values among the students.

Name of the Programme	Regulation	Link from the Website for Course outcomes
P Tash in Civil Engineering	V20	http://srivasaviengg.ac.in/uploads/civil/V20% 20B.TECH%20COURSE%20OUTCOMES.pdf
b. rech in Civil Engineering	V18	http://srivasaviengg.ac.in/uploads/civil/V18% 20B%20TECH%20COURSE%20OUTCOMES.pdf
M Tash in Structural Engineering	V21	http://srivasaviengg.ac.in/uploads/civil/V21% 20M.TECH%20COURSE%20OUTCOMES.pdf
M. Tech in Structural Engineering	V18	http://srivasaviengg.ac.in/uploads/civil/V18% 20M.TECH%20COURSE%20OUTCOMES.pdf

COURSE OUTCOMES B.Tech V20

Semester	I SEM	L	Τ	Р	С	COURSE CODE							
Regulation	V20	3	-	-	3	V20MAT01							
Name of the Course	Linear	Alg	ebr	a a	nd I	Differential Equations							
Branches	Common to All Branches												
	CO1 Ap	ply	ma	trix	tec	hnique to solve system of linear equationsK3							
	CO2 Fi	nd I	Eige	n va	alue	es and Eigen vectors K3							
Course	CO3 Sol	ve	the	orc	lina	ry differential equations of first order &							
Outcomes	first deg	gree	eK3										
	CO4 Sol	ve 1	the	line	ar l	Differential equations of higher order with							
	constar	nt co	oeff	icie	nts	КЗ							
	CO5 Ap	ply	Lap	olac	e Tr	ansformation to given function K3							
	CO6 Fir	nd r	nax	ima	and	l minima of functions of two variablesK3							

Semester	I/II SEM	L	Т	Р	С	COURSE CODE		
Regulation	V20	-	-	3	1.5	V20PHL01		
Name of theCourse	ENGINEERING PHYSICS LAB							
Branches	Common to All Branches							
	CO1Analyze the physical principle involved in the various Instruments also relate the principle to new application.K4 CO2Demonstrate the various experiments in the areas of optics, Mechanics and Electronics in all branches of engineering.K3							
Course Outcomes								
	CO3Think innovatively and also apply the creative skills that areessential for engineering.K4							

Semester	II SEM	L	Τ	Р	С	COURSE CODE				
Regulation	V20	3	-	-	3	V20EET02				
Name of the Course	Basic Electrical & Electronics Engineering									
Branches	Common to ME & CE									
	Understand and compute electrical quantities in DCexcited circuits K3									
Course Outcomes	Understand an excited circuits	Understand and compute electrical quantities in AC excited circuitsK3								
	Study the working principles of DC machinesK2									
	Study the working principles of transformersK2									
	Understand construction details and explain the working									
	principles of AC machinesK2									
	Understand the	basic o	peratio	n of ur	ninter	rupted powersuppliesK2				
Semester	II SEM	L	Τ	Р	С	COURSE CODE				
Regulation	V20	-	-	3	1.5	V20EEL02				
Name of the Course	Basic Electrical	& Elec	tronic	s Engi	neeri	ng Lab				
Branches	Common to CE	& ME								
	Determine the letter theorems K3	oad cur	rents b	by appl	ying v	various laws and				
	Analyze the stea	dy state	e perfo	rmance	e of se	eries circuits K3				
Course Outcomes	Plot the speed c	ontrol c	haract	ceristics	s of D	C shunt motor K3				
	Find the losses a	and effic	ciency	of a tra	nsfor	mer K3				
	Calculate the en	ergy bil	l for D	omesti	c load	s K3				
	Plot characterist	tics of fu	ıll wav	e rectif	ier K3	1				

Year/Sem	III Sem	L	Т	P C	COURSE CODE
Regulation / Year	V20 / 2021-2022	3	0	03	V20CET01
Name of the Course	STRENGTH OF MATERIA	LS			
Branch	CIVIL ENGINEERING				
Course Outcomes	 Understand the basic material conditions Draw the diagrams indicates bending moment and shea Understand bending conception of stress Understand the basic conception of stress alon Asses stresses in different subjected to different loading 	ater and ting r fo ept es c cept g di cept	ials b d the s g the v rces (l s and levelo ts of F fferer gineer ondit	vehavio suppo: variatio (K3) calcula ped in Princip nt axes ring ap ions (H	or under the influence of different et conditions (K2) on of the key performance features like ation of section modulus and the beams and torsion (K3) al stresses developed in a member when it and design the sections (K2) oplications like columns and struts (3)

Year/Sem	III Sem	L	Т	Р	С	COURSE CODE					
Regulation / Year	V20 / 2021-2022	0 0 3 1.5 V20CEL01									
Name of the	STRENGTH OF MAT	NGTH OF MATERIALS LAB									
Course											
Branch	CIVIL ENGINEERING	IVIL ENGINEERING									
Course Outcomes	 Identify the en laboratory Assess torsion Assess spring 	gir tes test	eerin t to d	eterm	perties tine ela ine elas	of materials in the stic constants stic constants					
	 Assess flexura Determine har Determine Implication 	Assess spring test to determine elastic constants Assess flexural test to determine elastic constants Determine hardness of metals Determine Impact strength of metals									

Year/Sem	IV Sem	L	Т	Р	C	COURSE CODE
Regulation / Year	V20 / 2021-	3	0	0	3	V20CET05
_	2022					
Name of the Course	ENGINEERING	GEOLO	GY			
Branch	CIVIL ENGINEE	RING				
Course Outcomes	 Relate the Employ diminerals a Interpret hstructures Review easubsidence Examine tstrata and Tunnels and 	features ifferent t ind rocks nazard z (K3) irthquak e (K3) he engir its suita nd Reser	s of geo rechniq s (K3) conaati es and neering bility t	logical ues to i on with landsli geolog o majoi etc. (K3)	agent dentif refer des ar fical co proje	rs (K3) fy different types of rence to secondary and their resulting onditions of the cts like Dams,

Year/Sem	IV Sem	L	Т	Р	C	COURSE CODE
Regulation / Year	V20 / 2021-	0	0	3	1.5	V20CEL04
	2022					
Name of the Course	ENGINEERING	GEOLO	GY LA	B		
Branch	CIVIL ENGINEER	RING				
Course Outcomes	 Understan engineerin Identify th engineerin Evaluate th and soil Develop th sections to 	nd the im ng ng geolog ng works he forma he abilit o interpr	iportar gical pr ation a y to p et site	nce of g cocess o nd prop repare condition	eolo <u>g</u> f any perties geolog ons	y in civil region to carry civil s of minerals, rocks gical maps and

Sem	V Sem	L	Т	Р	С	COURSE CODE			
Regulation	V20	3	0	0	3	V20CET09			
Name of the Course	STRUCTURAL ANALYSIS – II								
Branch	CIVIL ENGIN	EERIN	G						
Course Outcomes	 Compute two hing Analyze Moment (K4) Assess th compone Analyze different Compute methods 	e the m ged and the cor distrib ne load ents of S the stru method e the m	omen three ntinuc ution distri Susper icture ds (K4 omen	ts and hinge ous bea and K bution hsion l for La ts and	react darc ims v ani's in d oridg teral force	tions for hes (K3) using methods ifferent es (K3) loads using es using matrix			

Sem	V Sem	L	Т	Р	C	COURSE CODE				
Regulation	V20	0	0	3	1.5	V20CEL07				
Name of the	GEOTECHNICAL ENGINEERING LAB									
Course										
Branch	CIVIL ENGINEERING									
Course Outcomes	 Employed of soil Find the difference of swellies Comp 	by inde ls (K3) the perr ent test ct the co ing cha bute the	x prop meabil s (K3) ompao racter stren	erties ity of ction, o istics o gth pr	requi differ consc of the opert	ired for classification ent soils using lidation and soils (K3) ies of soils (K3)				

Sem	VI Sem	L	Т	Р	C	COURSE				
						CODE				
Regulation	V20	3	0	0	3	V20CET17				
Name of the	DESIGN OF STEEL STRUCURES									
Course										
Branch	CIVIL ENGINEERING									
Course Outcomes	 Decomposition Decomposition	esign the nnection esign the ckling, esign of usses for 5) sign the umn for esign the 5)	e rivet n (K5) e bear and b tensio r diffe e com pundat e plate	ted, bo ms aga pearing prent lo pressions (e girde	lted a ninst o (K5) npres pading on mo K5) r and	and welded deflection, shear, sion and roof gconditions embers and gantry girder				

Sem	VI Sem	L	Т	Р	C	COURSE			
						CODE			
Regulation	V20	0	0	3	1.5	V20CEL09			
Name of the Course	ENVIRONMEN	TAL E	NGIN	JEERI	NG I	LAB			
Branch	CIVIL ENGINEERING								
Course Outcomes	 Illustrate water (K Predict th Examine paramete Determine of water 	the cha 3) ne porta the cor ers (K3) ne the c (K4)	aracte: ability aditior lissolv	ristics of wa of wa of wa	of wa ter (K uter b ygen,	iter and waste 3) ased on the tested BOD and COD			

Sem	VII Sem	L	Т	Р	C	COURSE CODE		
Regulation	V20	3	0	0	3	V20CET25		
Name of theCourse	PRESTRESS	ED CC	NCR	ETE (I	Profe	ssional Elective -		
	III)	III)						
Branch	CIVIL ENGINEERING							
Course Outcomes	 Discus (K2) Analy stresse Analy prestre Analy Shear Design memb 	ss the b ze the e es (K4) ze the d essed co ze the p and tor n the er ers (K5	asic c effectiv leflect oncrete orestre sion (nd zon	oncept ve pres ions ar e bean essed c (K4) ne of p:	s of j stress nd fle: ns(K4 concre restre	prestressing system and bending xural strength of bete beams under essed concrete		

Sem	VII Sem	L	Т	Р	С	COURSE CODE		
Regulation	V20	3	0	0	3	V20CETJOC01		
Name of theCourse	CSI SAP 2000							
Branch	CIVIL ENGI	CIVIL ENGINEERING						
Course Outcomes	 Analysis a structures Design the Design of SAP 2000 Design of Design of Design	nd desig using SA Multist trusses v (K6) bridge o grid slat	gn of d AP 200 oried b with re composi- o using	etermir 0 (K4) ouilding levant l nents u SAP 20	nate an g usin oadin sing S 000 (K	nd indeterminate g SAP 2000 (K6) g conditions using 6AP 2000 (K6)		

COURSE OUTCOMES

<u>M.Tech</u> <u>V21</u>

Year/Sem	I Sem	L	Т	Р	C	COURSE CODE
Regulation/Year	V21 / 2021-2022	3	0	0	3	V21STET01
Name of the Course	THEORY OF I	ELAST	ICITY	Ĺ		
Course Outcomes:	 Relate the to determinant strain Apply the of equilibr Employ the materials, generalize Use the by the compatibit (K3) Develop in tensor and state of plat (K3) 	stress a ine the tensors conditi ium (K ne mech constit ed Hool equilik displac lity cor ndex ne 1 matri ane stre	nd de comp (K3) ons o 3) nanica utive k law orium cemen dition otatio x nota	eforma conents of comp al chara equati (K3) equa nts ns state n of equation a cate of	tion a sof th patibil acteri onsa tions ed by quation nd de plane	and how ne stress lity and equations istics of nd stated and stresses ons, efine e strain

Year/Sem	I Sem	L	Т	Р	C	COURSE
Regulation	V21	0	0	4	2	V21SEL01
Name of the Course	ADVANCED C LABORATORY	ONCR	ETE 7	ſECHI	NOL	OGY
Course Outcomes	 Dev Cerr Wat in co Dever relat coar Calc Asse usin metl Finc cond box 	elop renent Ra er / Ce oncrete elop str tion bet se aggr culate S ess con g No hods. d prope crete by and Sl	elatior ement ement eength ween egates train hcrete on erties y usin ump	a betw Vs Wo Ratios and v fine ag fine ag g. measu prop destr of Self ig L Bo tests	een orkab s Vs S vorka ggreg ureme pertie ructiv com	Water / ility, Strength bility rate, ent in concrete. s by ve testing paction Box ,U

	II Sem	L	Τ	Р	C	COURSE CODE
Year/Sem						
Regulation	V21	3	0	0	3	V21STET09
Name of the Course	FINITE ELE ENGINEERING	MENT	ME	ETHOD	S	IN STRUCTURAL
Course Outcomes	 Course Outcomes Compute principle of potential energy of an elastic be (K3) Calculate the stiffness matrices of truss element (K3) Calculate the stiffness matrices of beam elements (K Interpret displacements, strains and stress resultant (K3) 					

Year/Sem	II Sem	L	Т	Р	C	COURSE CODE
Regulation	V21	0	0	4	2	V21SEL03
Name of the Course	STRUCTURAI	L DESI	GN L	ABOF	RATC	DRY
Course Outcomes	p Com is and Structu ferent S re's to s pering pr	puter Iral El Structu olve v cogran	Progr Desig lement ural Er various ns	rams m ts ngine s civi	for of ering l	

Year/Sem	III Sem	L	Т	Р	C	COURSE
						CODE
Regulation	V21	3	0	0	3	V21STET19
Name of the Course	STRUCTURAI	L HEAI	LTH N	MONI	TOR	ING
Course Outcomes	 Assess investig (K3) Employ structur Employ structur Discove Apply rehabilition 	the strugation a v variou ral heal v variou ral aud er the d the kno itation o	ictural nd reg is mea th (K3 is Inv it (K3) ynam owledg of stru	health gular asures) estigat) ic field ge of R actures	n by maint for n ions l testi cepair (K3)	enance nonitoring for monitoring ng (K3) ring and

Vision To be a Department that strives towards quality education, research and consultancy in Civil Engineering. <u>Mission</u> •To provide broad and high quality education to its students for a successful professional career. •To serve the construction industry through dissemination of knowledge and technical services to rural community and professionals.

•To inculcate ethics and human values, effective communication and leadership qualities among students to meet the challenges of the society.



SRI VASAVI ENGINEERING COLLEGE

(AUTONOMOUS)

(Sponsored by Sri Vasavi Educational Society) (Approved by AICTE, New Delhi &Recognized by UGC under section 2(f) & 12(B)) (Permanently affiliated to JNTUK, Kakinada, Accredited by NBA and NAAC with 'A' Grade) Pedatadepalli, **TADEPALLIGUDEM–534 101.**W.G.Dist. (A.P)

Department of Electrical & Electronics Engineering (NBA Accredited)

Program Outcomes (POs)

Electrical and Electronics Engineering Graduates will be able to:

PO1: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and concepts of electrical engineering to the solution of complex engineering problems.

PO2: Problem Analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and electrical.

PO3:Design/development of solutions: Design solutions for complex Electrical Engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4:Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern Electrical Engineering and IT tools including prediction and modelling to complex electrical engineering activities with an understanding of the limitations.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the electrical engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex Electrical Engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the Electrical Engineering and management principles and apply these to ones own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

PSO1 : To contribute for the Development of green energy technologies to meet future energy demands.

PSO2: To identify, formulate, design, investigate and operate various electrical systems.

Course Outcomes (Cos)

B. Tech	Link
Course Outcomes (V20 Regulation)	http://srivasaviengg.ac.in/uploads/eee/V20%20
	Regulation%20Course%20Outcomes.pdf
Course Outcomes (V18 Regulation)	http://srivasaviengg.ac.in/uploads/eee/V18%20
	Regulation%20Course%20Outcomes.pdf

M. Tech	Link
Course Outcomes (V21 Regulation)	http://srivasaviengg.ac.in/uploads/eee/Course%20
	Outcomes_M.Tech_V21%20Regulation.pdf

B.Tech (V20 Regulation)

Name of the Course: Programming Lab in 'C' for problem Solving Course Code: V20CSL01 Course Outcomes:

After successful completion of this course, the students will be able to

CO No.	Course Outcome	Knowledge Level
C01	Demonstrate problem solving techniques using Control Structures	K3
C02	Construct Programmes using the concepts of Arrays, Strings and Pointers	K3
CO3	Apply the concepts of Functions, Structures and Unions	K3
C04	Use various file processing operations to develop real-time applications	K4

Name of the Course: Electrical Circuit Analysis-I Course Code: V20EET03

Course Outcomes:

After successful completion of this course, the students will be able to

CO No.	Course Outcome	Knowledge Level
C01	Apply various network reduction techniques for solving electrical DC circuits.	К3
C02	Calculate different parameters of single phase alternating quantities.	К3
C03	Understand the concepts of different powers and apply network reduction techniques for solving electrical AC circuits.	К3
CO4	Determine various parameters in series and parallel resonant circuits.	К3
<mark>C05</mark>	Apply the network theorems for solving electrical DC and AC circuits.	K3
C06	Compute electrical parameters for 3-phase balanced systems	К3

Name of the Course: Electrical Circuit Analysis -II

Course Code: V20EET04

Course Outcomes:

After successful completion of this course, the students will be able to

CO No.	Course Outcome	Knowledge Level
CO1	Determine electrical parameters for 3-phase unbalanced systems	K3
CO2	Apply the network theorems for solving electrical circuits.	K3
CO3	Analyze circuit parameters under transient conditions	K3
CO4	Calculate two-port network parameters for any type of electrical networks	K3
CO5	Understand the concept of filters	K2

IV Semester

Name of the Course: Signals and Systems

Course Code: V20EET07

Course Outcomes

After Successful completion of this course, students will be able to

CO No.	Course Outcome	Knowledge Level	
C01	Understand and estimate various types of signals and systems.	K2	
CO2	Understand the basic principles of Sampling Theorem.	K2	
CO3	Understand the characteristics of LTI Systems	K2	
CO4	Understand the concepts of Cross-Correlation and Auto- Correlation of Functions	K2	
CO5	Apply the concept of ROC for Laplace Transform and Z transform, Inverse Z transforms.	K3	

V Semester

Name of the Course: Switchgear & Protection

Course Code: V20EET12

Course Outcomes

After Successful completion of this course, students will be able to

CO No.	O No. Course Outcome		
C01	Understand the arc interruption phenomenon in oil, air, vacuum, SF6 gas type circuit breakers.	(K2)	
C02	Extract the constructional features and working of different types of electromagnetic relays.	(K2)	
CO3	Choose suitable relay for different type of protective schemes.	(K3)	
CO4	Apply suitable protective scheme for generators and transformers against different faults.		
C05	Choose suitable protective scheme for the protection of feeders & bus bars, digital relays and the concept of grounding.	(K3)	

Name of the Course: Power System Analysis Course Code: V20EET18 Course Outcomes

After Successful completion of this course, students will be able to

CO No.	Course Outcome	Knowledge Level
C01	Compute YBUS matrix for a power system network.	(K3)
CO2	Find the load flow solution of a power system network using load flow methods.	(K3)
C03	Develop the Z _{BUS} for a power system network and calculate the fault currents for symmetrical faults.	(K3)
CO4	Compute the sequence components of currents for unbalanced power system network.	(K3)
C05	Understand the concepts of power system stability.	(K2)

VII Semester

Name of the Course: Extra High Voltage AC Transmission (Professional Elective -III)

Course Code: V20EET25

Course Outcomes:

After successful completion of this course, the students will be able to

CO No.	CO No. Course Outcome	
C01	Calculate the parameters of EHV line modeling.	(K3)
CO2	Find electric field and interference characteristics of EHVAC system.	(K3)
CO3	Understand the corona loss formulation and radio interference to $3-\varphi$ Induction machines.	(K2)
CO4	Understand the Lightning phenomenon and methods of Lightning Protection	(K2)
C05	Understand the over-voltage phenomenon and methods to limit over-voltage EHVAC systems.	(K2)

B. Tech (V18 Regulation)

NAME OF THE COURSE: ENGINEERING CHEMISTRY

COURSE CODE : V18CHT01

Course Outcomes:

At the end of the course, the student should be able to:

CO1: Apply different plastics and rubbers for various engineering applications.

CO2: Assess the quality of fuels and apply the knowledge of fuels for the preservation of natural fuels.

CO3: Understand relevant concepts of Electro Chemistry to apply them in designing electrochemical energy systems.

CO4: Analyze boiler troubles arising due to poor water quality and suggest suitable water treatment methods for different industrial applications.

CO5: Analyze the causes for practical corrosion problems and apply corrosion principles for protection of metallic structures from corrosion.

CO6: Identify the important applications of advanced engineering materials.

II SEMESTER

NAME OF THE COURSE: ENGLISH-II

COURSE CODE : V18ENT02

Course Outcomes

CO-1: Understand the real import of education and work of noble men, use nouns, verbs and adjectives appropriately, identify and correct common errors in usage and write of icial letters.

CO-2: Derive inspiration from real life samples, interpret and speak on them, use synonyms and antonyms of words properly and do E-correspondence with required netiquette.

CO-3: Assimilate and adjust to new cultural environments, write on life-sketches, make the right use of tense and aspect and concord in sentences and plan and develop speech-writing.

CO-4: Imbibe ideas from the lives and works of successful men, use adverbs, develop view-points and topics and write different types of essays.

CO-5: Emulate personality-development inputs, elaborate on inspiring scientists use one-word substitutes, develop précis writing and write for the media.

CO-6: Learn from the paradigm of great contributors, use collocations and write professional and technical reports in standard formats.

III-SEMESTER

NAME OF THE COURSE: ELECTRICAL CIRCUIT ANALYSIS-I

COURSE CODE : V18EET03

Course Outcomes

After successful completion of this course, students will be able to

CO No.	Course Outcome				
C201.1	Apply various network reduction techniques for solving electrical circuits.	K3			
C201.2	Apply the principles of magnetism for solving different kind of magnetic circuits with and without dot conventions.	K3			
C201.3	Calculate different parameters of single phase alternating quantities.	K3			
C201.4	Determine various parameters in series and parallel resonant circuits.	КЗ			
C201.5	Apply the network theorems for solving electrical circuits.	K3			
C201.6	Calculate two-port network parameters for any type of electrical networks	КЗ			

IV-SEMESTER

NAME OF THE COURSE: ELECTRICAL CIRCUIT ANALYSIS-II

COURSE CODE : V18EET07

Course Outcomes

After successful completion of this course, students will be able to

CO No.	Course Outcome	Knowledge Level
C210.1	Compute electrical parameters for 3-phase balanced systems	КЗ
C210.2	Determine electrical parameters for 3-phase unbalanced systems	K3
C210.3	Analyse circuit parameters under transient conditions	K3
C210.4	Apply Foster and Cauer methods for Network Synthesis	K3
C210.5	Apply Fourier Series and Transforms for analysing electrical circuits	КЗ
C210.6		K3

V-SEMESTER

NAME OF THE COUSE: SWITCH GEAR & PROTECTION

COURSE CODE : V18EET12

Course Outcomes

After Successful completion of this course, students will be able to

CO No.	Course Outcome		
C301.1	Understand the arc interruption phenomenon in circuit breakers of oil, air, vacuum, SF6 gas type.	(K2)	
C301.2	Extract the constructional features and working of different types of electromagnetic relays	(K2)	
C301.3	Use suitable relay for different types of protection	(K3)	
C301.4	Relate protective schemes of generators and transformers against different faults	(K3)	
C301.5	Apply suitable protective scheme for the protection of feeders & bus bars	(K3)	
C301.6	Illustrate the operation of static & digital relays and the concept of grounding	(K2)	

VI-SEMESTER

NAME OF THE COURSE: ELECTRICAL DRIVES

COURSE CODE : V18EET17

Course Outcomes

After Successful completion of this course, students will be able to

CO No.	No. Course Outcome			
C311.1	C311.1 Understand the fundamentals concept about an electric drive and different electric braking methods			
C311.2	Operate Chopper fed DC motor drives in various quadrants	(K4)		
C311.3	3 Understand the closed loop operation of chopper fed dc motor drives			
C311.4	311.4 Compute the change in speed of three phase induction motor using solid state converters			
C311.5	Illustrate the speed control of induction motor using scalar control methods	(K3)		
C311.6	Analyze the speed control of induction motor using rotor resistance control and various slip power recovery schemes			

VII-SEMESTER

NAME OF THE COURSE: POWER SYSTEM OPERATION & CONTROL

COURSE CODE : V18EET26

Course Outcomes:

After successful completion of this course, the students will be able to

CO No.	Course Outcome	Knowledge Level
CO1	Analyze the optimal scheduling of power generating thermal units	K4
CO2	Compute optimal hydro and thermal scheduling.	К3
CO3	Predict the optimal unit commitment problem	К3
CO4	Calculate the transfer function of single area and two area load frequency control.	K4
CO5	Evaluate the steady state response of single area load control with PI controller.	К5
CO6	Assess the reactive power control and compensation of transmission lines.	КЗ

VIII-SEMESTER

NAME OF THE COURSE: ELECTRICAL DISTRIBUTION SYSTEMS

COURSE CODE : V18EET36

Course Outcomes:

After successful completion of this course, the students will be able to

CO No.	Course Outcome	Knowledge Level
CO1	Understand various factors of distribution system	K2
CO2	Construct the distribution substation and feeders	К3
CO3	Calculate the voltage drop and power loss calculations on Distribution System	КЗ
CO4	Understand the distribution system protection and its coordination.	К2
CO5	Understand the effect of compensation for power factor improvement.	К2
CO6	Understand the effect of voltage control on distribution system.	К2

M. Tech (V21 Regulation)

Course Outcomes

Semester	I SEM	L	T	P	C	COURSE CODE
Regulation	V21	3	0	0	3	V21PET01
Name of the Course	Analysis of P	ower Elec	tronic Co	nverters		20
Specialization	Power Electr	onics & Po	wer syst	ems		

Course Outcomes:

After successful completion of this course, the students will be able to

CO No.	Course Outcome	Knowledge Level
C01	Explain the Static and Dynamic Characteristics of power switching devices.	К2
CO2	Analyze the parameters of AC-DC converters	K4
CO3	Explain the operation of power factor correction converters	K2
CO4	Analyze the operation of three phase inverters with PWM control.	K4
C05	Understand the principles of operation of multi-level inverters and their applications	К2

Semester	II SEM	L	T	P	C	COURSE CODE
Regulation	V21	3	0	0	3	V21PET09
Name of the Course	Switched Mo	Switched Mode Power Conversion				
Specialization	Power Electr	Power Electronics & Power systems				

Course Outcomes:

After successful completion of this course, the students will be able to

CO No.	Course Outcome	Knowledge Level
C01	Explain operation and control of non-isolated switch mode converters.	K2
CO2	Describe operation and control of isolated switch mode converters.	K2
CO3	Understand the operation and control of resonant converters	K2
CO4	Compute control strategies of switching converters	K3
C05	Explain the operation of switch mode converters based on linearization and small-signal analysis.	К3

Semester	III SEM	L	T	P	C	COURSE CODE
Regulation	V21	3	0	0	3	V21PET17
Name of the Course	Hybrid Electr (Elective-V)	ic Vehicles				The contractor
Specialization	Power Electronics & Power systems					

Course Outcomes:

After successful completion of this course, the students will be able to

CO No.	Course Outcome	Knowledge Level
C01	Explain various configurations and basics of HEVs	K2
C02	Distinguish the concepts and components of various hybrid technologies	K2
C03	Review the architectures, range extension mechanisms and grid support of PHEVs	K2
CO4	Discuss the PE converters for battery charging and speed control of HEVs	K2
C05	Illustrate various Energy Storage Technologies	K2

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Head of the Department

Department Vision:

• To evolve as a centre of excellence in Electrical and Electronics Engineering that produces graduates of high quality with ethical values. Department Mission:

- · To impart technical knowledge through learner-centric education supplemented with practical exposure.
- To provide opportunities that promote personality development through co-curricular and extra-curricular activities.
 To inculcate human values & team spirit that enables the Electrical and Electronics Engineers to face the future challenges.



SRI VASAVI ENGINEERING COLLEGE

(AUTONOMOUS)

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Department of Mechanical Engineering

Program Outcomes (POs)

Mechanical Engineering Graduates will be able to:

1. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and concepts of mechanical engineering to solve the complex engineering problems.

2. Problem analysis:Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using mathematics, natural sciences and mechanical engineering principles.

3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. Modern tool usage: Create, select, and apply appropriate techniques and resources including prediction and modeling to complex engineering activities with an understanding of the limitations.

6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for the sustainable development

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary settings.

10. Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to $one\hat{a}\in^{TM}s$ own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

The Mechanical Engineering Graduates will be able to:

PSO1 : Apply thermal, fluid and design concepts/principles in mechanical engineering applications.

PSO2: Apply the concepts of process planning and cost estimation in the manufacture of different products.

Course Outcomes (Cos)

<u>UG</u>

B.Tech V20 Regulation	http://srivasaviengg.ac.in/uploads/syllabus/V20_Course _Structure&Syllabus.pdf
B.Tech V18 Regulation	http://srivasaviengg.ac.in/uploads/syllabus/V18_Course _Structure&Syllabus.pdf

<u>PG</u>

M. Tech V21 Regulation	http://srivasaviengg.ac.in/uploads/V21_M.TechTE_Co urse_Structure&Syllabus.pdf
M. Tech V18 Regulation	http://srivasaviengg.ac.in/uploads/M.Tech.Machine%20 Design_Course%20structure&Syllabi_V18.pdf



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SRI VASAVI ENGINEERING COLLEGE (AUTONOMOUS)

Program Outcomes:

Electronics & Communication Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and concepts of Electronics & Communication engineering to solve the complex engineering problems.[K3]

2. **Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using mathematics, natural sciences, and electronics and communication engineering principles. [K4]

3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.[K5]

4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions. [K5]

5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and Electronic Design Automation tools including prediction and modeling to complex engineering activities with an understanding of the limitations. [K3]

6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. [K3]

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for the sustainable development. [K3]

8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. [K3]

9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary settings. [K6]

10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and



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write effective reports and design documentation, make effective presentations, and give and receive clear instructions. [K2]

11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments. [K6]

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.[K1].

Program Specific Outcomes:

A graduate of the Electronics and Communication Engineering Program will be able to:

PSO 1: use modern tools to design subsystems for simple applications in Embedded Systems and VLSI. [K3]

PSO 2: apply engineering concepts to find solutions in the fields of Communications, Signal/ Image Processing. [K3]

Name of the	Regulation	Link form the website for Course Outcomes
Program		
P. Toch in ECE	V20	http://srivasaviengg.ac.in/uploads/ece/Course%20Outcomes%20- V20%20Regulation.pdf
B. Tech in ECE	V18	http://srivasaviengg.ac.in/uploads/ece/Course%20Outcomes%20- V18%20Regulation.pdf
M. Tech in Embedded System & VLSI	V21	http://srivasaviengg.ac.in/uploads/ece/M.%20Tech%20Course%20Outc omes%20-V21%20Regulation.pdf
M. Tech in VLSI & Embedded System	V18	http://srivasaviengg.ac.in/uploads/ece/M.%20Tech%20Course%20Outc omes%20-V18%20Regulation.pdf



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Department of Electronics and Communication Engineering

<u>B. Tech (V20)</u>

1st semester V20

Subject: Linear Algebra and Differential Equations (V20MAT01)

Course Outcomes:

CO1: Apply matrix technique to solve system of linear equations (K3)

CO2: Find Eigen values and Eigen vectors (K3)

CO3: Solve the ordinary differential equations of first order & first degree (K3)

CO4: Solve the linear differential equations of higher order with constant coefficients (K3)

CO5: Find maxima and minima of functions of two variables (K3)

2nd semester V20

Subject: Switching Theory and Logic Design (V20ECT01)

Course Outcomes:

- CO1: Explain the different types of number Systems, number conversions, codes and logic Gates. (K2)
- **CO2:** Apply the concepts of Boolean algebra and use the knowledge of K-maps and tabular method for minimization of Boolean expressions. **(K3)**
- CO3: Construct the higher order modules from their lower order structures of various combinational logic circuits. (K3)
- CO4: Explain the concept of various flip flops (K2)
- CO5: Develop various sequential circuits like registers, counters and various Finite State Machine Models (K3)

3rd semester V20

Subject: SIGNALS AND SYSTEMS (V20ECT05)

Course Outcomes:

- **CO1:** Classify the signals and various operations on signals. **[K2]**
- **CO2:** Determine the response of LTI system to any arbitrary input signal using convolution. **[K2]**
- **CO3:** Analyze the spectral characteristics of signals using Fourier series and Fourier transforms. **[K3]**
- **CO4:** Apply the various sampling techniques on continuous time signals. **[K3]**
- **CO5:** ApplytheconceptsofLaplacetransform/Z-transformtoanalyzecontinuous-
- time/discrete-timesignalsincomplexplane. **[K3]**



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Department of Electronics and Communication Engineering

4th semester V20

Subject: Electromagnetic Waves & Transmission lines (V20ECT09)

Course outcomes:

CO1: Find static electric field intensity by using various laws of electrostatics. **[K3]**

- **CO2:** Find static magnetic field intensity by using various laws of magneto statics and develop the Maxwell's equations for time varying fields. **[K3**]
- **CO3:** Calculate the Propagation Characteristics of the EM Waves in different mediums and find Brewster angle, critical angle and total internal reflection. **[K3**]
- **CO4:** Compute Primary and Secondary constants for a given transmission line. **[K3]**
- **CO5:** Calculate reflection coefficient, VSWR etc. using smith chart. **[K3]**

5th Semester V20 VLSI DESIGN (V20ECT10)

Course Outcomes:

CO-1: Understand different IC technologies. (K2)

CO-2: Explain basic electrical properties of MOS, CMOS and Bi-CMOS Circuits. (K2)

CO-3: Develop layouts for MOS & Bi-CMOS circuits using design rules. (K3)

CO-4: Compute the parameters of MOS circuits and assess the effects of scaling. **(K3)**

CO-5: Design Combinational circuits and Subsystems. (K4)

6th Semester V20 IoT USE CASE'S (V20ECT17)

Course Outcomes:

CO1: Describe M2M and IOT Technologies. [K2]

CO2: Explain the layers and protocols in IOT. **[K2]**

CO3: Describe various communication technologies used in IOT. **[K2]**

CO4: Illustrate various hardware components required for IOT applications. **[K2]**

CO5: Discuss the cloud technologies and their services & explain the IoT Applications. **[K2]**

7th Semester V20

Subject: Digital ImageProcessing (V20ECT20)

Course Outcomes:

CO1. Explain image fundaments and the different image Transforms Techniques **(K2) CO2.** Describe Spatial and frequency domain filtering like smoothing and sharpening Operationson Images **(K2)**

CO3. Describe Restoration operations/techniques on Images **(K3)**

CO4. Describe the Image compression Techniques and Image segmentation **(K3)**

CO5. Explain the different color models and color image processing techniques (K2)



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Department of Electronics and Communication Engineering

M. Tech (V21)- Specialization : Embedded Systems & VLSI

1st Semester V21 Subject: SYSTEM DESIGN THROUGH VERILOG (V21ESVT01)

Course outcomes:

CO1: Outline basic concepts of RTL code for digital circuits [K2]
CO2: Model RTL codes for digital circuit at gate and data flow level [K3
CO3: Model RTL codes for digital circuit at behavioral level [K3]
CO4: Model RTL codes for digital circuit at switch level modeling and outline the concepts of task, function and complier directives [K3]
CO5: Analyze Synthesize of Combinational and Sequential Circuits [K4]

LAB: System Design through Verilog Lab (V21ESVL01) Course outcomes:

CO1: Develop the simulation of combinational and sequential circuits using HDL Language.[K3]

CO2: Develop the synthesis of combinational and sequential circuits using HDL Language.[K3] **CO3:** Analyze the implemented of digital logics with hardware module kit FPGA [K4]

2nd Semester V21

Subject: Analog and Digital CMOS VLSI Design (V21ESVT09) Course Outcome:

CO1: Describe the concept of MOS structure and physical design of CMOS (K2)
CO2: Design the CMOS Inverters and various CMOS combinational logic circuits (K4)
CO3: Design the CMOS different Sequential logic circuits (K4)
CO4: Describe the concept of modeling of MOS and Analog CMOS Sub-Circuits (K2)
CO5: Describe the CMOS Op-Amps & it's Applications. (K2)

LAB: Analog and Digital CMOS VLSI Design Lab (V21ESVL03) Course Outcomes:

CO1 -Analyse the Characteristics of MOS Device (K3)

CO2 - Analyse the basic MOS Amplifiers and current mirrors (K3)

CO3 -Design the various MOS Amplifiers. (K4)

CO4 -Demonstrate various CMOS combinational Digital circuits (K2)

CO5- Demonstrate various CMOS Sequential Digital circuits (K2)

Project:

Course outcomes

CO1: Demonstrate good verbal presentation and technical report writing skills. (K2)
CO2: Conceptualize, design and implement solutions for specific problems.(K3)
CO3: Apply engineering and management principals while executing the project. (K3)
CO4: Identify and solve complex engineering problems using professionally prescribed standards. (K3)



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Department of Computer Science & Technology

Programme Outcomes (POs)

Computer Science Engineering Graduates will be able to:

- Engineering knowledge: Apply the knowledge of Mathematics, Science, Engineering Fundamentals and Concepts of Computer Science Engineering to the solution of complex Engineering problems.
- Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of Mathematics, Natural Sciences and Computer Science. [K4]
- 3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specific needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.
 [K5]
- 4. **Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions. **[K5]**
- 5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex Engineering activities with an understanding of the limitations. [K3]
- The Engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional Engineering practice. [K3]
- 7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. [K3]
- 8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the Engineering practice. [K3]
- Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. [K6]
- 10. **Communication**: Communicate effectively on complex Engineering activities with the Engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

[K2]

- Project management and finance: Demonstrate knowledge and understanding of the Engineering and Management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments. [K6]
- 12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. [K1]



SRI VASAVI ENGINEERING COLLEGE (AUTONOMOUS) PEDATADEPALLI, TADEPALLIGUDEM-534 101, W.G.Dist. Department of Computer Science & Engineering (Accredited by NBA)

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Department of Computer Science & Technology

Programme Specific Outcomes (PSOs)

A graduate of the Computer Science and Engineering Program will be able to:

- **PSO 1:** Use Mathematical Abstractions and Algorithmic Design along with Open Source Programming tools to solve complexities involved in Programming. **[K3]**
- PSO 2: Use Professional engineering practices and strategies for development and maintenance of Software. [K3]

Name of the Program	Regulation	Link form the website for Course Outcomes
B. Tech	V20	http://www.srivasaviengg.ac.in/uploads/cse_extra_activities/Course
in		%20Outcomes%20-V20%20Regulation.pdf
	V18	http://www.srivasaviengg.ac.in/uploads/cse_extra_activities/Course
CSE &CSI VIO	%20Outcomes%20-V18%20Regulation.pdf	
M.Tech		http://www.srivasaviengg.ac.in/uploads/cse_extra_activities/PG%20
in	V21	Course%20Outcomes%20-V21%20Regulation.pdf
CS		
M.Tech		http://www.srivasaviengg.ac.in/uploads/cse_extra_activities/PG%20
in	V18	Course%20Outcomes%20-V18%20Regulation.pdf
CSE		



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Sample Course Outcomes B.Tech(CSE) & B.Tech(CST)-V20 Regulation

Semester	Course Code & Name	Course Outcomes				
I Semester	V20MAT01 Linear Algebra and Differential Equations	 After Successful completion of the Course, the student will be able to: Apply matrix technique to solve system of linear equations Find Eigen values and Eigen vectors Solve the ordinary differential equations of first order & first degree Solve the linear differential equations of higher order with constant coefficients. Find maxima and minima of functions of two variables. 				
II Semester	V20PHT01 Engineering Physics	 After Successful completion of the Course, the student will be able to: Associate the basic principles of structure of materials, crystallography and X-raydiffraction. Prepare the students to the basic concepts of Lasers and their applications in opticalfiber communication link Indicate the applications of sound waves in various fields Interpret wave and particle behavior of matter and relate it to electron theory ofmetals Examine the advanced concepts of engineering materials like Semiconductors,Superconductors and Dielectrics 				
III Sem	V20CST03 OOPs Through C++	 After Successful completion of the Course, the student will be able to: Differentiate Procedural Oriented Programming and Object-Oriented Programming. Develop programs using Classes and Objects. Demonstrate Constructors, destructors & Operator-Overloading. Construct Classes using inheritance and Exceptions. Demonstrate Files and Generic Programming. 				
III Sem	V20CSL03 OOPs Through C++Lab	 After Successful completion of the Course, the student will be able to: Develop Programs on Classes and Objects. Demonstrate Constructors, Destructors and Operator-Overloading, Inheritance andPolymorphism. Develop programs to handle Exceptions & Files. Demonstrate Generic Programming. 				
IV Semester	V20CST06 Design and Analysis of Algorithms	 After Successful completion of the Course, the student will be able to: Demonstrate asymptotic notation and divide and conquer technique. Use greedy technique to solve various problems. Demonstrate dynamic programming technique to various problems. Develop algorithms using backtracking technique. Demonstrate branch and bound technique to various problems. 				
IV Semester	V20CSL06 Statistical Visualization using R Lab	 After Successful completion of the Course, the student will be able to: Employ math and simulation in R. Demonstrate various types of data structures in R. Apply appropriate control structures to solve a particular Programming problem. Use R to graphically visualize data and results of statistical calculations. 				



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V Semester	V20CST10 Operating Systems	 After Successful completion of the Course, the student will be able to: 1. Describe Operating System Services and System Calls 2. Illustrate Process Management Concepts and CPU Scheduling Algorithms 3. Demonstrate Process Synchronization primitives and Process Deadlocks 4. Illustrate Memory Management Techniques and Page Replacement Algorithms 5. Describe File System Concepts and Mass Storage Structures
V Semester	V20CSL09 Data Mining Lab	 After Successful completion of the Course, the student will be able to: 1. Demonstrate Data Pre-processing techniques 2. Demonstrate Association Rule Mining techniques. 3. Demonstrate Classification techniques. 4. Demonstrate the Clustering techniques.
VI Semester	V20CST13 Computer Networks	 After Successful completion of the Course, the student will be able to: 1. Discuss fundamentals of network concepts and Reference Models 2. Discuss Communication media and switching techniques 3. Demonstrate Error control and Data link layer protocols 4. Apply Routing algorithms and congestion control algorithms 5. Discuss Transport layer protocols and Application layer protocols
VI Semester	V20CSL12 Machine Learning using Python Lab	 After Successful completion of the Course, the student will be able to: 1. Identify various Python libraries used in Machine Learning 2. Implement probabilistic classifiers using Python Programming 3. Construct non-probabilistic classifiers using Python Programming 4. Demonstrate the process of clustering using the K-Means algorithm 5. Illustrate the working of a Multi-layer perceptron network
VII Semester	V20CSTPE12 Human Computer Interaction(Elective- III)	 After Successful completion of the Course, the student will be able to: 1. Describe the principles and characteristics of GUI. 2. Describe how a computer system may be modified to include human diversity. 3. Select an effective style and screen design for a specific business application. 4. Discuss System Menus & Navigation Schemes. 5. Select Device and Screen based controls.



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Sample Course Outcomes M.Tech(CS) -V21 Regulation

Semester	Course Code	Course Outcomes
Semester	& Name	Course Outomes
I Semester	V21CTT01 Mathematical Foundations of Computer Science	 After Successful completion of the Course, the student will be able to: Demonstrate skills in solving mathematical problems, mathematical principles and logic. Demonstrate the basic concepts associated with set theory, relations, functions and their applications. Illustrate algebraic structures and concepts associated with Number Theory and their applications in Computer Science. Manipulate and consider data numerically by using combinatorics. Solve recurrence relations using various methods apply techniques of graphs for real-time problems.
I Semester	V21CTL04 Advanced Computer Networks Lab	 After Successful completion of the Course, the student will be able to: 1. Demonstrate various routing protocols. 2. Develop sub netting and addressing IP. 3. Develop emerging trends and security issues in computer Networks.
II Semester	V21CTT09 Web Technologies	 After Successful completion of the Course, the student will be able to: Demonstrate the basics of JavaScript. Illustrate the concepts of XML and AJAX. Produce Dynamic web pages with PHP and My SQL. Use PERL to retrieve documents from the web. Describe the fundamentals of RUBY Programming.
II Semester	V21CTL06 Advanced Web Technologies Lab	 After Successful completion of the Course, the student will be able to: 1. Develop static web pages using HTML, CSS. 2. Demonstrate the concepts of JavaScript and DHTML. 3. Demonstrate the basic concepts of PHP and JSP. 4. Demonstrate the concepts of Extensible markup language & AJAX. 5. Develop dynamic Web Applications using PHP & My SQL.
III Sem	V21CTT18 Mobile Applications and Development (Elective-V)	 After Successful completion of the Course, the student will be able to: Describe Installation and configuration of Android application development tools. Develop applications using services and publishing android applications. Demonstrate Android software development tools. Illustrate debugging programs running on mobile devices. Develop Android applications using server-less database like SQLite.
Audit Course 1 &2	V21PGENT51 Pedagogy Studies	 After Successful completion of the Course, the student will be able to: Identify various theories of learning and recognize Research questions with an overview of methodology. Review Pedagogical practices used by teacher in both formal and informal class room and design Curriculum. Examine how teacher education and the school curriculum support effective pedagogy along with various pedagogical approaches and theories. Show peer support for professional development and support from head teacher to develop curriculum and assessment. Find out the barriers involved in learning. Find out the gaps and give directions for research design as per context.



CSE (Artificial Intelligence) Department

Programme Outcomes (POs):

CSE (Artificial Intelligence) Graduates will be able to:

1. Engineering knowledge: Apply the knowledge of Mathematics, Science, Engineering Fundamentals and Concepts of CSE (Artificial Intelligence) Engineering to the solution of complex Engineering problems. [K3]

2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of Mathematics, Natural Sciences, CSE (Artificial Intelligence). [K4]

3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specific needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations. [K5]

4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions. [K5]

5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex Engineering activities with an understanding of the limitations. [K3]

6. The Engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional Engineering practice. [K3]

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. [K3]

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the Engineering practice. [K3]

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.[K6]

10. Communication: Communicate effectively on complex Engineering activities with the Engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. [K2]



SRI VASAVI ENGINEERING COLLEGE (Autonomous) PEDATADEPALLI, TADEPALLIGUDEM-534 101 Department of Computer Science Engineering (Artificial Intelligence)

11. Project management and finance: Demonstrate knowledge and understanding of the Engineering and Management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments. [K6]

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. [K1]

Programme Specific Outcomes (PSOs):

A graduate of the CSE(Artificial Intelligence) Programme will be able to:

PSO1: Use Mathematical Abstractions and Algorithmic Design along with Open Source Programming tools to solve complexities involved in Programming. [K3]

PSO2: Use Professional Engineering practices and strategies for development and maintenance of software. [K3]

Name of the Program	Regulation	Link from the website for Course Outcomes
B. Tech in CSE(AI)	V20	http://srivasaviengg.ac.in/cai.php#parentVerticalTab1

Sample Course Outcomes (V20 Regulation)

Semester	Course Code & Name	Course Outcomes	
		After Successful completion of the Course, the student will be able to:	
I Semester	V20MAT01 Linear Algebra and Differential Equations	 Apply matrix technique to solve system of linear equations Find Eigen values and Eigenvectors Solve the ordinary differential equations of first order & first degree Solve the linear differential equations of higher order with constant coefficients. Find maxima and minima of functions of two variables 	



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Computer Science Engineering (Artificial Intelligence)

		After Successful completion of the Course, the student will be able to:		
II Semester	V20MAT10			
		1. Find the Fourier series of periodic signals		
	Integral	2 Find the Fourier transforms of given function		
	Transformations	3 Find multiple integrals and improper integrals		
	and Vootor	4. Calculate gradient of a scalar function, divergence and our		
		4. Calculate gradient of a scalar function, divergence and curr		
	Calculus	of a vector function		
		5. Apply the knowledge of vector integral concepts to		
		find characteristics of vector fields		
		After Successful completion of the Course, the student will		
		be able to:		
	V20MBT51	1. Understand the basic concepts of managerial		
III Semester	- 201112 101	economics, demand, elasticity of demand and		
	Managerial	methods of demand forecasting.		
	Feonomies	2. Interpret production concept, least cost combinations and		
	and Financial	various costs concepts in decision making.		
		3. Differentiate various Markets and Pricing methods along		
	Analysis	with Business Cycles		
		4. Prepare financial statements and its analysis.		
		5. Assess various investment project proposals with the help		
		of Capital Budgeting techniques for decision making		
		After Successful completion of the Course, the student will		
		he able to		
	V20AIT04			
		1 Illustrate Basic structure of Computers Instruction		
IV	Computer	types and their addressing modes		
Semester	Organization	2 Describe the different modes of Input / Output transfer		
	and	3 Illustrate different types of Memory		
	Architecture	4 Describe the different types of Control Unit techniques		
		 Describe the different types of Control Onit techniques. Evaluin the Concents of Dipolining and Devallel Processing 		
		After Successful completion of the Course the student will		
		After Successful completion of the Course, the student will be able to:		
		be able to:		
	V20AIT09	1. Describe Data Engineering		
V Semester		lifecycle.		
	Data Engineering	2. Explain Data architecture and data generation.		
		3. Explain Data Engineering storage abstractions.		
		4. Illustrate Data ingestion process.		
		5. Discuss queries, modeling, transformation and		
		serving.(K2)		



SRI VASAVI ENGINEERING COLLEGE (Autonomous) PEDATADEPALLI, TADEPALLIGUDEM-534 101 Department of

Computer Science Engineering (Artificial Intelligence)

		After Successful completion of the Course, the student will		
		be able to:		
VI Semester	V20AIT12 Computer Networks	 Discuss fundamentals of network concepts and Reference Models. Discuss Communication media and switching techniques. Demonstrate Error control and Data link layer protocols. Apply Routing algorithms and congestion control algorithms. Discuss Transport layer protocols and Application layer protocols. 		
VII Semest er	V20AITPE09 Ethical Hacking (Professional Elective-III)	 After Successful completion of the Course, the student will be able to: 1. Discuss ethical considerations of Hacking. 2. Assess an environment using Foot printing and Social Engineering methods. 3. Discuss various techniques and tools used in Network Scanning and characteristics in Enumeration phase. 4. Demonstrate techniques and tools used in System Hacking and different Malwares. 5. Illustrate counter measures to Denial-Of-Service, Session Hijacking. 		



Artificial Intelligence & Machine Learning Department

Programme Outcomes (POs):

Artificial Intelligence and Machine Learning Graduates will be able to:

1. Engineering knowledge: Apply the knowledge of Mathematics, Science, Engineering Fundamentals and Concepts of Artificial Intelligence and Machine Learning Engineering to the solution of complex Engineering problems. [K3]

2. Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of Mathematics, Natural Sciences, Artificial Intelligence and Machine Learning. [K4]

3. Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specific needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations. [K5]

4. Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions. [K5]

5. Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex Engineering activities with an understanding of the limitations. [K3]

6. The Engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional Engineering practice. [K3]

7. Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development. [K3]

8. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the Engineering practice. [K3]

9. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.[K6]

10. Communication: Communicate effectively on complex Engineering activities with the Engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. [K2]



11. Project management and finance: Demonstrate knowledge and understanding of the Engineering and Management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments. [K6]

12. Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. [K1]

Programme Specific Outcomes (PSOs):

A graduate of the Artificial Intelligence and Machine Learning Programme will be able to:

PSO1: Use Mathematical Abstractions and Algorithmic Design along with Open Source Programming tools to solve complexities involved in Programming. [K3]

PSO2: Use Professional Engineering practices and strategies for development and maintenance of software. [K3]

Name of the Program	Regulation	Link from the website for Course Outcomes
B. Tech in AI&ML	V20	http://srivasaviengg.ac.in/aiml.php#parentVerticalTab1

Sample Course Outcomes (V20 Regulation)

Semester	Course Code & Name	Course Outcomes	
		After Successful completion of the Course, the student will be able to:	
I Semester	V20MAT01 Linear Algebra and Differential Equations	 Apply matrix technique to solve system of linear equations Find Eigen values and Eigenvectors Solve the ordinary differential equations of first order & first degree Solve the linear differential equations of higher order with constant coefficients. Find maxima and minima of functions of two variables. 	



SRI VASAVI ENGINEERING COLLEGE (Autonomous) PEDATADEPALLI, TADEPALLIGUDEM-534 101 Department of

Artificial Intelligence & Machine Learning

		After Successful completion of the Course, the student will		
		be able to:		
	V20MAT10			
		1. Find the Fourier series of periodic signals		
	Integral	2 Find the Fourier transforms of given function		
II Semester	Transformations	3 Find multiple integrals and improper integrals		
	and Vootor	4. Colculate gradient of a scalar function, divergence and our		
		4. Calculate gradient of a scalar function, divergence and curr		
	Calculus	of a vector function		
		5. Apply the knowledge of vector integral concepts to		
		tind characteristics of vector fields		
		After Successful completion of the Course, the student will		
		be able to:		
	V20MBT51	1. Understand the basic concepts of managerial		
	V 20101D 101	economics, demand, elasticity of demand and		
	Managarial	methods of demand forecasting.		
III Semester	Foonomios	2. Interpret production concept, least cost combinations and		
	and Financial	various costs concepts in decision making.		
		3. Differentiate various Markets and Pricing methods along		
	Analysis	with Business Cycles		
		4. Prepare financial statements and its analysis.		
		5. Assess various investment project proposals with the help		
		of Capital Budgeting techniques for decision making.		
		After Successful completion of the Course, the student will		
		be able to:		
	V20AIT04			
		1 Illustrate Basic structure of Computers Instruction		
IV	Computer	types and their addressing modes		
Semester	Organization	2 Describe the different modes of Input / Output transfer		
	and	 Describe the different inodes of input / Output transfer. Illustrate different types of Memory 		
	Architecture	A Describe the different types of Memory.		
		 Describe the different types of Control Onit techniques. Explain the Concents of Dipolining and Darallel Processing 		
		5. Explain the Concepts of Fiperining and Fataller Flocessing		
		After Successful completion of the Course, the student will		
		be able to:		
	V20AIT09	1. Describe Data Engineering		
V Semester		litecycle.		
	Data Engineering	2. Explain Data architecture and data generation.		
	2 and Engineering	3. Explain Data Engineering storage abstractions.		
		4. Illustrate Data ingestion process.		
		5. Discuss queries, modeling, transformation and		
		serving.(K2)		



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Artificial Intelligence & Machine Learning

		After Successful completion of the Course, the student will	
VI Semester	V20AIT12 Computer Networks	 Discuss fundamentals of network concepts and Reference Models. Discuss Communication media and switching techniques. Demonstrate Error control and Data link layer protocols. 	
		 Apply Routing algorithms and congestion control algorithms. Discuss Transport layer protocols and Application layer protocols. 	
VII Semest er	V20AITPE09 Ethical Hacking (Professional Elective-III)	 After Successful completion of the Course, the student will be able to: 1. Discuss ethical considerations of Hacking. 2. Assess an environment using Foot printing and Social Engineering methods. 3. DiscussvarioustechniquesandtoolsusedinNetworkScannin gandcharacteristicsin Enumeration phase. 4. Demonstrate techniques and tools used in System Hacking and different Malwares. 5. Illustrate counter measures to Denial-Of-Service, Session Hijacking. 	



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DEPARTMENT OF MANAGEMENT STUDIES

Program Outcomes:

- 1. Apply knowledge of management theories and practices to solve business problems K3
- 2. Foster Analytical and critical thinking abilities for data-based decision making K4
- 3. Ability to develop Value based Leadership ability K2
- 4. Ability to understand, analyze and communicate global, economic, legal and ethical aspects of business **K4**
- 5. Ability to lead themselves and others in the achievement of organizational goals, contributing effectively to a team environment K2
- 6. An Ability to communicate effectively **K1**
- **7.** Generate business Ideas, develop business plans, understand regulatory requirements, and locate sources of finance and other resources to start new business ventures **K4**
- 8. An ability to engage in continuous learning and professional development K1

Program Specific Outcomes:

- 1. Present their knowledge in the areas of General Management, Finance, Marketing and Human resource Management. **(K1)**
- 2. Apply Business knowledge and Management techniques in solving the business problems. (K3)
- 3. Employ their skills as entrepreneurs by gaining necessary management skills and Leadership qualities. **(K3)**



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DEPARTMENT OF MANAGEMENT STUDIES

Name of the Program	Regulation	Link from the website for Course Outcomes
	V21	http://srivasaviengg.ac.in/mba.php
MBA	V21	http://srivasaviengg.ac.in/mba.php
	V21	http://srivasaviengg.ac.in/mba.php
	V21	http://srivasaviengg.ac.in/mba.php

SEMESTER - I

V21MBT01: MANAGEMENT THEORY & ORGANIZATIONAL BEHAVIOUR (Effective for the students admitted into first year from the Academic Year 2021-2022)

- 1. Understand the fundamentals of management and develop holistic perspective towards an organization. (K1)
- 2. Construct the models of decision making and controlling in an organizational context. (K2)
- 3. Describe various dimensions of individual behavior. (K1)
- 4. Identify the dynamics of group and also emerge as a good team member.(K2)
- 5. Demonstrate their leadership qualities and understand the culture of an organization. (K3)
- 6. Apply Managerial concepts for solving Business Management problems.(K3)



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DEPARTMENT OF MANAGEMENT STUDIES SEMESTER - II

V21MBT07: FINANCIAL MANAGEMENT

(Effective for the students admitted into first year from the Academic Year 2021-2022)

- 1. Understood the fundamental concepts of financial Management. (K2)
- 2. Construct optimal capital structure by identification of financial sources and evaluating cost of capital. (K2)
- 3. Identify long term investment projects by applying capital budgeting techniques. (K2)
- 4. Understood the concept of dividend decisions and able to measure the dividend. (K2)
- 5. Apply the concepts of working capital, cash, and receivables management. (K3)
- 6. Interpret problems related to Business Finance by studying practical cases.(K3)

SEMESTER - III

V21MBT16: RETAIL MANAGEMENT (Effective for the students admitted into Second year from the Academic Year 2022-23)

- 1: Understand the basic structure of Retail business in India. (K2)
- 2: Understand various retail strategies in practice. (K2)
- 3: Interpret the importance of location in making a retail business successful. (K2)
- 4: Apply basic operations in retail business in real life environment. (K3)
- 5: Examine the technical and financial aspects of retail business besides report preparation. (K3)



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DEPARTMENT OF MANAGEMENT STUDIES

SEMESTER - IV

V21MBT28: FINANCIAL DERIVATIVES (Effective for the students admitted into Second year from the Academic Year 2022-23)

- 1. Understand the nature of derivatives and derivative markets. (K2)
- 2. Operate the trading of futures in BSE &NSE. (K3)
- 3. Develop fundamental knowledge of options market. (K3)
- 4. Apply pricing mechanism on various derivative options. (K4)
- 5. Understand swaps and economic functions of swap transactions. (K2)

D

DEPARTMENT OF MANAGEMENT STUDIES