P D A College of Engineering B.E. in Electrical and Electronics Engineering Scheme of Teaching and Examinations 2022

Outcome Based Education(OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year2023-24)

	Teaching Hours/Week					Examination								
SI. No	Course	Course Code	Course Title	eachingDepart ment (TD)and QuestionPaper ettingBoard(PS B)	Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration inhours	ClEMarks	SEEMarks	TotalMarks	Credits	
					L	Т	Р	S	_			F		
1	PCC/ BSC	22MATE31	Mathematics for EEEs Stream - III	BSC	2	2	0		03	50	50	100	3	
2	IPCC	22EE32	Electrical Circuit Analysis	EEE	3	0	2		03	50	50	100	4	
3	IPCC	22EE33	Analog and Digital Electronics	EEE	3	0	2		03	50	50	100	4	
4	PCC	22EE34	Electrical Machines - I	EEE	2	2	0		03	50	50	100	3	
5	PCCL	22EEL35	Electrical Machines – I Lab	EEE	0	0	2		03	50	50	100	1	
6	ESC	22EE36A	Field Theory	EEE	3	0	0		03	50	50	100	3	
7	UHV	22UHV37	Social Connect and Responsibility	Any Department	0	0	2		02	50	50	100	1	
				EEE	lft	he cours	e is a The	ory	02					
0	AEC	225545201	Hardware Development Skills-I		0	2	0		02	50	50	100	1	
0	/SE	ZZEEAESOI			lf a	course is	a labora	tory	03					
	C				0	0	2		00					
		22NS39	Mandatory Course	NSS Coordinator										
9	NCMC	22PE39	Mandatory Course	Physical Education Director	0	0	0	2			50		50	0
		22YO39	Mandatory Course	Yoga Teacher										
									Total	450	400	850	20	

IIISEMESTER

PCC: Professional Core Course, PCCL: Professional Core Course laboratory, UHV: Universal Human Value Course, MC: Mandatory Course (Non-credit), AEC: Ability Enhancement Course, SEC:Skill Enhancement Course, L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE:Semester End Evaluation.K:This letter in the course code indicates common to all the stream of engineering. ESC:Engineering Science Course, ETC:Emerging Technology Course, PLC:Programming Language Course

Engineering Science Course(ESC/ETC/PLC)[L-T-P::3-0-0]										
22XX 36A Field Theory 22XX 36C										
22XX 36B 22XX 36D										
	Ability Enhanceme	ent Course –III								
22XXAE381	Hardware Development Skills-I	22XXAE383	English Lab							
22XXAE382 Lab View 22XXAE384										
Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practical's of the same course. Credit for IPCC can be 04 and its Teaching-										

Learning hours (L : T : P) can be considered as(3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only

CIE(noSEE). However, questions from the practical part of IPCCs hall be included in the SEE question paper. Form the regulation governing the Degree of Bachelor of Engineering/Tech no logy (B.E./B.Tech.) 2022-23 may please be referred.

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education(PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. Theeventsshallbeappropriatelyscheduledbythecollegesandthesameshallbe reflected in the calendar prepared for the NSS,PE,and Yogaa ctivities. These courses shall Not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.

P D A College of Engineering B.E. in Electrical and Electronics Engineering Scheme of Teaching and Examination 2022

Outcome Based Education(OBE) and Choice Based Credit System(CBCS)

(Effective from the academic year2023-24)

IVSEMESTER

						Teaching	Hours/Wee	k		Exam	ination		
SI. No	Cou Cou	urse and rse Code	Course Title	TeachingDepar ment (TD)and QuestionPaper Setting Board(P SB)	Theory Lecture	Tutorial	Drawing	v Self-Study	Duration inhours	CIEMarks	SEEMarks	TotalMarks	Credits
1	PCC	22EE41	Electrical Machines - II	EEE	2	2	0		03	50	50	100	3
2	IPCC	22EE42	Measurement & Instrumentation	EEE	3	0	2		03	50	50	100	4
3	IPCC	22EE43	Control Systems	EEE	3	0	2		03	50	50	100	4
4	PCCL	22EEL44	Electrical Machine- II Lab	EEE	0	0	2		03	50	50	100	1
5	ESC	22EE45A	Electrical Power Generation, Transmission & Distribution	EEE	3	0	0		03	50	50	100	3
6	BSC	22BSC46	Biology For Engineers	TD/PSB:BT, CHE,	3	0	0		03	50	50	100	3
7	UHV	22UHV47	Universal Human Values Course	Any Department	1	0	0		02	50	50	100	1
			Ability Enhancement	TD and	lf th O	ne cour 2	se is The 0	ory 02		50	50	100	1
8	AEC	22XXAE481	Course/SkillEnhancement	PSB:Conc	lf	the cou	irse is lat)	02	50	50	100	1
	/SE C		Course-IV	erned dept.	0	0	2		03				
		22NS49	Mandatory Course	NSScoordinator									
9	NCM	22PE49	Mandatory Course	PhysicalEducati on Director	0	0	2			50		50	0
	Ľ	22YO49	Mandatory Course	YogaTeacher	\neg								
									Total	450	400	850	20
PCC:	PCC: Professional Core Course. PCCL: Professional Core Course laboratory. UHV: Universal Human Value Course. MC: Mandatory Course (Non-credit). AEC: Ability												

 EnhancementCourse,SEC:SkillEnhancementCourse,L:Lecture,T:Tutorial,P:PracticalS=SDA:SkillDevelopmentActivity,ClE:ContinuousInternalEvaluation,SEE:

 SemesterEndEvaluation.K:Thisletterinthecoursecodeindicatescommontoallthestreamofengineering.

 Engineering Science Course: The course is not common to all the departments and it is relevant to the respective departments.

 Engineering Science Course: The course is not common to all the departments and it is relevant to the respective departments.

 22XX45A
 Electrical Power Generation, Transmission & Distribution
 22XX45C

 22XX45B
 22XX45D

	icement Course-IV		
22XXAE481	Op-amp & Linear IC's	22XXAE483	Electrical Machines Trouble shooting
22XXAE482	Electrical Motor Winding Testing and Commissioning	22XXAE484	IoT

Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practical of the same course. Credit for IPCC can be 04 and its Teaching– Learning hours (L : T : P) can be considered as(3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall beevaluatedbyonlyCIE(noSEE).However,questionsfromthepracticalpartofIPCCshallbeincludedintheSEEquestionpaper.Formoredetails,theregulationgoverningtheDegreeof BachelorofEngineering/Technology(B.E./B.Tech.)2022-23

National Service Scheme /Physical Education/Yoga:All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education(PE)(Sports and Athletics), andYoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between IIIsemester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. Theeventsshallbeappropriatelyscheduledbythecollegesandthesameshallbereflectedin thecalendarpreparedfortheNSS,PE,and Yogaactivities. Thesecoursesshallnot beconsidered forvertical progression aswell asfor thecalculationofSGPAandCGPA,butcompletionofthecoursesismandatory for theawardofdegree.

														5
				P D A College of En	gineeri	ng								
			B.E. in Elec	trical and Electron	ics Eng	ineer	ing							
			Scheme of	Teaching and Exam	minatio	ns 20	22							
			Outcome Based Educa	ation(OBE) and Cho	ice Bas	ed Cr	edit Sy	vstem(CB	SCS)					
			(Effectiv	ve from the acaden	nic year	2023	-24)							
VSEN	IESTER						Tooc	ning Hour	c/Mook		Eva	minat		1
				o a							ion			
SI .N	Course a Course C	nd ode	Course Title	eachingDel rtment (TD) and QuestionPar	settingBoar PSB)	Theo	Tutorial	Practic al/Dra	Self- c+d.	Duratio n	CIEMarks	SEEMarks	TotalMarks	Credits
0					0,	L	Т	Р	S				-	_
1	HSMS/ PC	22EE51	Power Electronics	EEE		3	0	0		03	50	50	100	3
2	IPCC	22EE52	Microcontrollers	EEE		3	0	2		03	50	50	100	4
3	PCC	22EE53	PSAS	EEE		4	0	0		03	50	50	100	4
4	PCCL	22EEL54	Power Electronics Lab	EEE		0	0	2		03	50	50	100	1
5	PEC	22EE55A	Utilization of Electrical Power	EEE		3	0	0		03	50	50	100	3
6	PROJ	22EEMP56	Mini Project	TD-Respective PSB- Respective Dept.	Dept. /e	0	0	4		-	50		50	2
7	AEC	22RMI57	Research Methodology and IPR	Any Depart	ment	2	2	0		03	50	50	100	3
8	BSC	22ES58	Environmental Studies	TD:CV/Env/Ch PSB:CV	em	2	0	0		03	50	50	100	2
		22NS59	Mandatory Course	NSS coordir	nator									
9	NCMC	22PH59	Mandatory Course	Physical Education Director	n	0	0	2			50		50	0
		22YO59	Mandatory Course	Yoga Teac	her									
										Total	450	350	800	22
		· · · · · · · · · ·		Professional Elective	e Course		-							
22EE	55A	Utilization of	Electric Power	2	22EE55C		React	ive Power	r Manage	ement				
22EE	:55B	Operational	Amplifiers and LIC	2	22EE55D	^	Digita	I Signal Pi	rocessing	5				
AEC:	Protessio Ability	naicorecourse,	rul:ProtessionalCoreCourselaboratory,	UHV:UniversalHuma	invalue	Lourse	e,IVIC:IV	iandatory	vcourse(f	von-cred	lit),			

Enhancement Course, **SEC**:Skill Enhancement Course, **L**: Lecture, **T**: Tutorial, **P**: Practical **S**= **SDA**: Skill Development Activity, **CIE**: Continuous Internal Evaluation, **SEE**:SemesterEndEvaluation. **K**:Theletterinthecoursecodeindicates commontoalthestreamofengineering.**PROJ**:Project/MiniProject.**PEC**:ProfessionalElective Course

Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practical of the same course. Credit for IPCC can be 04 and its Teaching-
Learning hours (L : T : P) can be considered as(3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall
beevaluatedbyonlyCIE (no SEE).However,questionsfrom thepracticalpart ofIPCCshallbeincluded in theSEEquestion
paper.Formoredetails,theregulationgoverningtheDegreeofBachelorofEngineering/Technology(B.E./B.Tech.)2022-23

National Service Scheme /Physical Education/Yoga:All students have to register for any one of the courses namely National Service Scheme (NSS), PhysicalEducation(PE)(Sports and Athletics), andYoga(YOG) with the concerned coordinator of the course during the first week of III semestersActivities shall be carried outbetween IIIsemester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of thedegree.TheeventsshallbeappropriatelyscheduledbythecollegesandthesameshallbereflectedinYogaactivities.Thesecoursesshallnotbeconsidered forvertical progressionaswell asfor thecalculationofSGPAandCGPA, butcompletionofthecourseismandatoryforthe

awardofdegree.

Mini-project work: Mini Project is a laboratory-oriented/hands on course that will provide a platform to students to enhance their practical knowledge and skills by thedevelopmentofsmallsystems/applicationsetc.Basedontheability/abilitiesofthestudent/sandrecommendationsofthementor,asingledisciplineoramultidisciplinaryMini-project canbe assigned to anindividual studentor to agrouphavingnotmorethan4 students.

CIEprocedureforMini-project:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two faculty members of the Department, one of them being the Guide. The CIE marks awarded for the Mini-project work shall be based on the evaluation of the project report, project presentation skill, and question and answersession in the ratio of 50:25:25. The marks awarded for the project reports hall be the same for all the batches mates.

(ii) Interdisciplinary: Continuous Internal Evaluations hall be group-wise at the college level with the participation of all the guides of the project.

The CIE marks awarded for the Mini-project shall be based on the evaluation of the project report, project presentation skill, and question and answer session in theratio50:25:25:25.Themarks awarded for the project report shall be the same for all the based on the evaluation of the project report, project presentation skill, and question and answer session in the the transfer of the project report.

NoSEEcomponent forMini-Project.

Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering andTechnology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. Eachgroupwillprovideanoptiontoselectonecourse.Theminimumnumberofstudents'strengthsforofferingaprofessionalelectiveis10.However,thisconditionalshall Notbeapplicable to caseswheretheadmissionto theprogram is less than10.

			P [B.E. in Elec Scheme of Outcome Based Education (Effective	D A College of Engine trical and Electronic Teaching and Exam (OBE) and Choice Ba from the academic	eeri cs Ei inat ased c yea	ng ngine tions I Crec ar202	e ring 2022 dit Syst 23-24)	tem(CBC	S)					7
				- u a	_		Teac	hing s/Week			Exar	ninat	inat	
SI .N	Course andCours	seCode	Course Title	eachingDep: rtment (TD)and QuestionPapo r	bcb)	Theo	Tutorial	Practic al/Dra	Self-	Duratio n	CIEMarks	SEEMarks	TotalMarks	Credits
0		Ι			<i>''</i>	L	Т	Р	S				-	
1	HSMS/ PC	22 HU61	Entrepreneurship, Management and Finance	Dept.		2	2	2		03	50	50	100	4
2	РСС	22EE62	PSOC	EEE		3	2	0		03	50	50	100	4
3	PEC	22EE63A	Signal and Systems	EEE		3	0	0		03	50	50	100	3
4	OEC	22EEOE64x	Open Elective -I	TD-Respective De PSB- Respective Dept.	pt.	3	0	0		03	50	50	100	3
5	PROJ	22EE65	Major Project Phase - I	EEĖ		0	0	4		03	50		50	2
6	PCCL	22EEL66	Estimation and Costing Lab	EEE		0	0	2		03	50	50	100	1
7			All State Finds and and			If the Theo	e course erv	e is offer	ed as a	02	50	50	100	1
	AFC/SDC	22EEAE67x	Ability Enhancement			0	2	0		03	50	50	100	1
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					If a c	course i tical	is offered	l as a					
						0	0	2						
	1	22NS68	Mandatory Course (Non-credit),	NSS coordinato	r									
8	NСМС	22PE68	Mandatory Course (Non-credit),	Physical Educatio Director	n	0	0	2			50		50	0
		22YO68	Mandatory Course (Non-credit),	Yoga Teacher										
										Total	400	300	700	18
				Professional Elective Co	urse		1							
22EE	63A	Signal and Syste	ms	22EE6	3C		Distrib	uted Gen	eration					
22EE	63B	Electric Vehicles		22EE6	3D		PLC &	SCADA						

	Open Elective Course										
22EEOE641	Essentials of Information Technology	22EEOE642	Operation & Maintenance of Solar Electric System								
22EEOE643	VLSI & Design	22EEOE644	Illumination Engineering								
	Ability Enhancement Course/Skill Enhancement Course-V										
22XXAE671		22XXAE672									
22XXAE673		22XXAE674									
PCC: Professional Core Course, PCCL: Professional Core Course laboratory, UHV: Universal Human Value Course, MC: Mandatory Course (Non-credit), AEC:											
AbilityEnhance	AbilityEnhancement Course, SEC:Skill Enhancement Course, L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation,										
SEE:Semester	ndEvaluation. K: The letter in the course code indicates common to althest rea	mofengineering.	PROJ:Project/MiniProject.PEC:ProfessionalElective								
Course. PROJ :F	rojectPhase-I, OEC : OpenElectiveCourse										
Professional C	ore Course (IPCC): Refers to Professional Core Course Theory Integrat	ed with practical	of the same course. Credit for IPCC can be 04 and its Teaching-								
Learning hour	s (L : T : P) can be considered as($3 : 0 : 2$) or ($2 : 2 : 2$). The theory	part of the IPCC	shall be evaluated both by CIE and SEE. The practical part shall								
beevaluated I	by only CIE (no SEE). However, questions from the practical par	t of IPCC shall	be included in the SEE questionpaper. For more details, the								
regulationgove	erningtheDegreeofBachelorofEngineering/Technology(B.E./B.Tech.)2022	-23									
National Serv	ice Scheme /Physical Education/Yoga:All students have to register	for any one o	f the courses namely National Service Scheme (NSS), Physical								
Education(PE)	Sports and Athletics), and Yoga (YOG) with the concerned coordinator	of the course du	ring the first week of III semesters. Activities shall be carried out								
between IIIser	nester to the VI semester (for 4 semesters). Successful completion of	the registered c	ourse and requisite CIE score is mandatory for the award of the								
degree. Theev	ents shall be appropriately scheduled by the colleges and the same shall be reflected by the constraint of the same shall be reflected by the same shall	ectedin thecalen	darpreparedfortheNSS,PE, and Yogaactivities. These courses shall								
notbeconsider	ed forvertical progressionaswell asfor thecalculationofSGPAandCGPA, b	utcompletionofth	necourse is mand atory for the award of degree.								
Professional E	lective Courses (PEC): A professional elective (PEC) course is intended	to enhance the	depth and breadth of educational experience in the Engineering								
andTechnolog	y curriculum. Multidisciplinary courses that are added supplement th	e latest trend a	nd advanced technology in the selected stream of engineering.								
Eachgroupwill	provideanoptiontoselectonecourse. The minimum number of students' stre	ngthsforoffering	professionalelectivesis10. However, this conditional shall								
notbeapplicab	leto caseswheretheadmissionto theprogramis lessthan10.										
OpenElective	OpenElectiveCourses:										
Students belo	Students belonging to a particular stream of Engineering and Technology are not entitled to the open electives offered by their parent Department. However, they										
canopt for an elective offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under											
theguidanceof	theProgramCoordinator/Advisor/Mentor.Theminimumnumbersofstude	nts'strengthforof	feringOpenElectiveCourseis10.However,thiscondition								
shallnotbeapp	shallnotbeapplicabletoclasswhere theadmissiontotheprogramislessthan10.										
ProjectPhase-	Studentshave todiscusswiththementor/guideandwiththeir helphe/sheh	astocompletethe	eliteraturesurveyandpreparethe reportandfinally								
define the problem statement for the project work.											

8

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P D A College of Engineering B.E. in Electrical and Electronics Engineering NameSchemeofTeachingandExaminations2022

Outcome Based Education(OBE) and Choice Based Credit System(CBCS)

(Effective from the academic year 2023-24)

VII SEMESTER(Swappable VII and VIII SEMESTER)

				a a	e A(TeachingHours/Wee k			Irs/Wee Examinat ion					
SI .N	Course a Course C	nd ode	Course Title	eachingDep rtment (TD)and	(uestionPap r ettingBoard psR)	Theo	Tutorial	Practic al/Dra	Self-	Duratio n	CIEMarks	SEEMarks	otalMarks	Credits
0		-		F	o s	L	Т	Р	S	1			-	
1	IPCC	22EE71	CAPS	EEE		3	0	2		03	50	50	100	4
2	IPCC	22EE72	Switch Gear and Protection	EEE		3	0	2		03	50	50	100	4
3	PCC	22EE73	Electrical Machines Design	EEE		4	0	0		03	50	50	100	4
4	PEC	22EE74x	Professional Elective-III	TD-Respective Dept. PSB- Respective Dept.		3	0	0		03	50	50	100	3
5	OEC	22EEOE75x	Open Elective-II	TD-Respect PSB- Respect Dept.	ctive Dept. ective	3	0	0		03	50	50	100	3
6	PRO J	22EE76	Major Project Phase-II			0	0	12		03	50	50	100	6
											300	300	600	24
		·	Pr	ofessional Ele	ctive Course	•								•
22EE	741	Electric Drive	es and Applications		22EE743		IRPS							
22EE	742	Power Syste	m Dynamics and Control		22EE744		MEM	S						
				Open Electiv	e Course									
22EE	OE751	Wind and Sc	olar Energy Systems		22EEOE7	53	HVDC	Transmi	ssion					
22EE	OE752	Electric Pow	er Quality		22EEOE7	54	Energ	y Conser	vation ar	nd Audit				
PCC: Professional Core Course, PCCL: Professional Core Course laboratory, PEC: Professional Elective Course, OEC: Open Elective Course PR: Project Work, L: Lecture, T:														
Tuto	rial, P : Pra	actical S= SDA	: Skill Development Activity, CIE : Continuous Ir	nternal Evalua	ation, SEE:	Seme	ster En	d Evaluat	ion. TD-	Teaching	g Departn	nent, PSB :	Paper	
Setti	ngdepartr	nent, OEC :Ope	enElective Course, PEC : Professional Elective Co	ourse. PROJ :	Project wo	rk				_				
Note	Note:VIIandVIIIsemestersofIVyearsoftheprogram													

(1) Institutions can swap the VII and VIII Semester Schemes of Teaching and Examinations to accommodate research internships/industry internships after the VI

semester.

(2) Creditsearned for the courses of VII and VIIIS emester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether the VII or VIIIs emesters is completed during the beginning of the IV year of the later part of IV years of the program.

Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering andTechnology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. Eachgroupwillprovideanoptiontoselectonecourse.Theminimumnumberofstudents'strengthsforofferingprofessionalelectivesis10.However,thisconditionalshall notbeapplicabletocaseswheretheadmissiontotheprogram isless than 10.

OpenElectiveCourses:

Students belonging to a particular stream of Engineering and Technology are not entitled to the open electives offered by their parent Department. However, they canopt for an elective offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under theguidanceof the ProgramCoordinator/Advisor/Mentor. The minimum numbers of students' strength for offering Open Elective Course is 10. However, this conditionshallnot be applicabletoclass where the admissiontothe programis lessthan10.

PROJECTWORK(21MEP75): The objective of the Project work is

(i) Toencourageindependentlearningandtheinnovativeattitudeofthestudents.

(ii) Todevelopinteractiveattitude, communicationskills, organization, timemanagement, and presentationskills.

(iii) Toimpartflexibilityandadaptability.

(iv) Toinspireteamworking.

(v) Toexpandintellectualcapacity, credibility, judgmentandintuition.

(vi) Toadheretopunctuality, setting and meeting deadlines.

(vii) Toinstallresponsibilitiestooneselfandothers.

(viii) Totrainstudentstopresentthetopicofprojectworkinaseminarwithoutanyfear, face the audience confidently, enhance communications kills, involve in group discussion to present and exchange ideas.

CIEprocedureforProjectWork:

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

The CIE marks awarded for the project work, shall be based on the evaluation of the project work Report, project presentations kill, and question and answersession in the ratio 50:25:25. The marks awarded for the project reports hall be the same for all the batch mates.

(2) Interdisciplinary: Continuous Internal Evaluations hall be group-wise at the college level with the participation of all guides of the college. Participation of external

guide/s,ifany,isdesirable.TheCIEmarks awardedfortheprojectwork,shallbe basedon theevaluationofprojectworkReport,projectpresentationskill,andquestionandanswer sessionintheratio50:25:25.Themarksawardedfor theprojectreport shallbe the sameforallthe batchmates.

SEEprocedureforProjectWork: SEE for project work will be conducted by the two examiners appointed by the University. The SEE marks awarded for the project work

shallbebasedontheevaluation of projectwork Report, project presentations kill, and question and answersession in the ratio 50:25:25.

			PDA	College	of Engineeri	ng								
			B.E. in Electr	ical and	Electronics E	ngin	eering							
			Scheme Of L		and Examina		5 2022 adit S	stom/CD						
				UDE) allo			euit Sy	stem(CE	503)					
VIIISE	MESTER(Sv	vannableVilandVill	(ETTECLIVE ITO)	m the ac	ademic year	2023-	-24)							
				Da	ac d(Teac Hou	hing rs/Week			Exa i	minat on		
SI .N	Course a Course C	ind Code	Course Title	eachingDer rtment	eachingDep rtment (TD)and LuestionPap LuestionPap r ettingBoarc		Tutorial	Practic al/Dra	Self- Cturks	Duratio n	CIEMarks	SEEMarks	FotalMarks	Credits
0				F	s o	L	Т	Р	S	-				
1	PEC	22XX81x	Professional Elective-IV(Online Courses) – NPTEL	TD-Respective Dept. PSB- Respective Dept.		3	0	0		03	50	50	100	3
2	OEC	22XXOE82x	Open Elective-III(Online Courses)	TD-Res PSB- Re Dept.	pective Dept. spective	3	0	0		03	50	50	100	3
3	INT	22XXINT83	Internship(Industry/Research)(14-20weeks)	TD-Res PSB- Re	pective Dept. espective	0	0	12		03	50	50	100	10
				Dept.									 	
							Ļ				150	150	300	16
22223	7011	T	Profession	alElective	Course(Onlinec	ourse	s)							
2282	811				22XX813									
22XX	X812				22XX814									
			OpenE	lectiveCou	rses(OnlineCours	es)								
22XX	XOE821				22XXOE823									
22XX	22XXOE822 22XXOE824													
L: Lec Pape	ture, T :Tu rSettingd	itorial, P :Practi lepartment, O I	ical S=SDA :SkillDevelopmentActivity, ClE :Continu E C :OpenElectiveCourse, PEC :ProfessionalElective	iousInteri eCourse. F	nal Evaluation PROJ :Projectw	, SEE :S ork, I	Semest NT :Indu	erEnd Eva IstryInter	aluation. nship/Re	TD- Teach esearchIn	ning Depa Iternship,	artment, P /RuralInte	3B : rnship	
Note	: VII and	VIII semesters	s of IV years of the programSwapping Facility	onstoacco	ommodate									

• Researchinternships/industryinternships/Rural Internship afterTheVIsemester.

• CreditsearnedforthecoursesofVIIandVIIISemesterSchemeofTeachingandExaminationsshall be counted against corresponding semesters either VIIorVIIIsemester that iscompleted during the beginning of IV year of IV year of the program.

Elucidation:

At the beginning of IV years of the program i.e., after VI semester, VII semester classwork and VIII semester

Research Internship /Industrial Internship / Rural Internshipshall be permitted to be operated simultaneously by the University so that students have ample opportunity for an internship. In other words, a good percentage of theclassshall attendVIIsemester classwork and a similar percentage of others have a Research Internship or Industrial Internship Rural Internship.

Research/Industrial /Rural Internship shall be carried out at an Industry, NGO, MSME, Innovation centre, Incubation centre, Start-up, centre of Excellence (CoE), StudyCentreestablishedin the parent institute and/or at reputedresearchorganizations/institutes.

The mandatory Research internship /Industry internship / Rural Internship is for 14 to 20 weeks. The internship shall be considered as a head of passing and shall beconsidered for the award of a degree. Those, who do not take up/complete the internship shall be declared to fail and shall have to complete it during the subsequentUniversityexaminationafter satisfying the internship requirements.

Research internship: A research internship is intended to offer the flavour of current research going on in the research field. It helps students get familiarized with the field and imparts the skill required for carrying out research.

Industry internship:Is an extended period ofworkexperienceundertakenbystudents to supplementtheirdegreeforprofessional development. It also helpsthem learn to overcome unexpected obstacles and successfully navigate organizations, perspectives, and cultures. Dealing with contingencies helps students recognize,appreciate,andadapt toorganizational realities bytemperingtheirknowledgewithpractical constraints.

Rural Internship:Rural development internship is an initiative of Unnat Bharat Abhiyan Cell, RGIT in association with AICTE to involve students of all departmentsstudyingindifferentacademicyearsforexploringvariousopportunities intechno-socialfields, to connectandwork with RuralIndiafor their upliftment.

The faculty coordinator or mentor has to monitor the student's internship progress and interact with them to guide for the successful completion of the internship. The students are permitted to carry out the internship anywhere in India or abroad. University shall not be a range as permitted to carry out the internship.

With the consent of the internal guide and Principal of the Institution, students shall be allowed to carry out the internship at their hometown (within or outside thestate or abroad), provided favorable facilities are available for the internship and the student remains regularly in contact with the internal guide. University shall notbearany costinvolvedincarryingout theinternshipbystudents. However, students canreceiveany financial assistance extended by the organization.

ProfessionalElective/OpenElectiveCourse:

Theseare the ONLINEcoursessuggested by the respectiveBoard of Studies

Online Professional Course: The students need to register (anywhere between VI to VIII Semesters) NPTEL Course of 12 weeks duration (3 Credits course) and should pass the examination. The NPTEL Courses relevant to the program and need to be identified by the department and same is to be informed to the students.

Online Open Elective Course: The students need to register (anywhere between VI to VIII Semesters) NPTEL Course of 12 weeks duration (3 Credits course) and should pass the examination. The NPTEL Courses that enables skill enhancements and job opportunities need to be suggested by the department and same is to be informed to the students.

S.No	Semester	22-23
01	Ι	20
02	Π	20
03	III	20
04	IV	20
05	V	22
06	VI	18
07	VII	24
08	VIII	16
	Total	160

Credit Compliance for The B.E/B.Tech. Degree Curriculum 2022-23										
Course category	VTU	AICTE	PDACEK							
Humanities, Social Sciences and Management (HSMC)	10	12	10							
Basic Sciences (BSC)	24	25	24							
Engineering Sciences (ESC)	24	24	24							
Ability Enhancement Course	07		07							
Professional Courses (PCC)-Courses	54	48	54							
Professional Courses (PEC) - Elective	12	18	12							
Other Open Elective Courses (OEC)	09	18	09							
Project Work(PROJ)/Seminar/Internship	20	15	20							
Total	160	160	160							