

R R Institute of Technology

(Affiliated to VTU and Approved by AICTE, Recognised by Govt. of Karnataka)

Accredited by NAAC

1.3.2 Percentage of students undertaking project work/field work/ internships (Data for academic year -2022-23)

Sl NO	Program	Name of the Course	Course Code	No of Students undertaking Project /Field Work/ Internship		Mini Project	Intern ship
1	CIVIL	Extensive Survey Report	18CVEP68	29	38	29	63
		Internship/Profession Practice	18CVI85	38			
		Project work Phase II	18CVP83	38			
		Summer Internship I	21INT49	63			
2	CSE	Computer Graphics	18CSL67	63	56	63	139
		Laboratory with Mini Project					
		Internship/Profession Practice	18CSI85	56			
		Project work Phase II	18CSP83	56			
		Mini project Mobile	18CSMP68	63			
		Application Development					
		Data base management	18CSL58	63			
		System lab with Mini Project					
		Summer Internship I	21INT49	139			
3	ECE	Mini Project	18ECMP68	15	18	15	61
		Internship/Profession Practice	18ECI85	18			
		Project work Phase II	18ECP83	18			
		Summer Internship I	21INT49	61			
4	EEE	Mini Project	18EEMP68	10	15	10	34
		Internship/Profession Practice	18EET84	15			
		Project work Phase II	18EEP85	15			
		Summer Internship I	21EEI48	34			
5	ISE	File Structure with Mini Project	18ISL67	45	54	45	66
	=	Internship/Profession Practice	18CSI85	54			
		Project work Phase II	18CSP83	54			
		Mini project Mobile	18CSMP68	45			
		Application Development		,			
		Data base management	18CSL58	45			
		System lab with Mini Project					
		Summer Internship I	21INT36	66			
6	ME	Mini Project	18MEMP68	13	30	13	26
		Internship/Profession Practice	18MEI85	30			
		Project work Phase II	18MEP83	30			
		Summer Internship I	21INT49	26			
		Total: 77	5	1	211	175	388

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B.E. in Electronics and Communication Engineering (ECE)

Scheme of Teaching and Examinations 2021 Outcome-Based Education (OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2021 - 22)

			_	Tea	ching I	Hours /W	eek		Exam	ination		
SI. No	Course and Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Theory Lecture	Tutorial	Practical/ Drawing	Self -Study	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
			-	L	Т	P	S					
1	BSC 21EC41	Maths for Communication Engineers	TD, PSB-Maths					03	50	50	100	3
2	IPCC 21EC42	Digital Signal Processing TD: ECE PSB: ECE 3 0 2 0		03	50	50	100	4				
3	IPCC 21EC43	Circuits & Controls	TD: ECE PSB: ECE	3	0	2		03	50	50	100	4
4	PCC 21EC44	Communication Theory	TD: ECE PSB: ECE	3	0	0	1	03	50	50	100	3
5	AEC 21BE45	Biology For Engineers	BT, CHE, PHY	2	0	0		02	50	50	100	2
6	PCC 21ECL46	Communication Laboratory I	TD: ECE PSB: ECE	0	0	2		03	50	50	100	1
	HSMC 21KSK37/47	Samskrutika Kannada										
7	HSMC 21KBK37/47	Balake Kannada	HSMC	1	0	0		01	50	50	100	1
	,	OR										
	HSMC 21CIP37/47	Constitution of India & Professional Ethics										
			TD and PSB:	If offe	red as	theory	Course	01				
8	AEC	Ability Enhancement Course IV	Concerned	1 0 0		01	50	50	100	1		
0	21EC48X	Ability Enhancement Course- IV	department	If offered as lab. course		02	30	30	100	1		
				0	0	2		02				
9	UHV 21UH49	Universal Human Values	Any Department	1	0	0		01	50	50	100	1
10	INT 21INT49	(Inter/Intra Institutional Internship)	Evaluation By the appropriate authorities	III ser admitt BE./B. interve and Latera	ening mester ted to Tech a ening IV s	during period of significant strains of the second during strains stra	of III and udents ear of ng the of III and the udents	3	100	1	100	2
								Total	550	450	1000	22
		urse prescribed to lateral entry Diplo	ma holders adm	itted to	III se	mester	of Engi	ineering	g progra	ams		1
1	NCMC	Additional Mathematics - II	Maths	02	02				100		100	0

Note: BSC: Basic Science Course, IPCC: Integrated Professional Core Course, PCC: Professional Core Course, AEC –Ability Enhancement Courses, HSMC: Humanity and Social Science and Management Courses, UHV- Universal Human Value Courses.

L –Lecture, T – Tutorial, P- Practical/ Drawing, S – Self Study Component, CIE: Continuous Internal Evaluation, SEE: Semester End Examination.

21KSK37/47 Samskrutika Kannada is for students who speak, read and write Kannada and 21KBK37/47 Balake Kannada is for non-Kannada speaking, reading, and writing students.

Integrated Professional Core Course (IPCC): Refers to Professional Theory Core Course Integrated with Practicals 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 (no SEE). However, questions from practical part of IPCCshall be included in the SEE question paper. For more details the regulation governing the Degree of Bachelor of Engineering /Technology (BE/B.Tech.) 2021-22 may be referred.

Non – credit mandatory course (NCMC):

Additional Mathematics - II:

(1) Lateral entry Diploma holders admitted to III semester of B.E./B.Tech., shall attend the classes during the IV semester to complete all the

formalities of the course and appear for the Continuous Internal Evaluation (CIE). In case, any student fails to register for the said course/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured an F grade. In such a case, the student has to fulfill the course requirements during subsequent semester/s to earn the qualifying CIE marks. These courses are slated for CIE only and have no SEE.

(2) Additional Mathematics I and II shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the courses shall be mandatory for the award of degree.

(3) Successful completion of the course Additional Mathematics II shall be indicated as satisfactory in the grade card. Non-completion of the courses Additional Mathematics II shall be indicated as Unsatisfactory.

Ability Enhancement Course - IV										
21EC481	Embedded C Basics	21EC483	Octave / Scilab for Signals							
21EC482 C++ Basics 21EC484 DAQ using LabVIEW										

Internship of 04 weeks during the intervening period of IV and V semesters; 21INT68Innovation/ Entrepreneurship/ Societal based Internship.

(1)All the students shall have to undergo a mandatory internship of 04 weeks during the intervening period of IV and V semesters. The internship shall be slated for CIE only and will not have SEE. The letter grade earned through CIE shall be included in the VI semester grade card. The internship shall be considered as a head of passing and shall be considered for vertical progression and for the award of degree. Those, who do not take up / complete the internship shall be considered under F (fail) grade and shall have to complete during subsequently after satisfying the internship requirements.

(2)Innovation/ Entrepreneurship Internship shall be carried out at industry, State and Central Government /Non-government organizations (NGOs), micro, small and medium enterprise (MSME), Innovation centres or Incubation centres. Innovation need not be a single major breakthrough; it can also be a series of small or incremental changes. Innovation of any kind can also happen outside of the business world.

Entrepreneurship internships offers a chance to gain hands on experience in the world of entrepreneurship and helps to learn what it takes to run a small entrepreneurial business by performing intern duties with an established company. This experience can then be applied to future business endeavours. Start-ups and small companies are a preferred place to learn the business tack ticks for future entrepreneurs as learning how a small business operates will serve the intern well when he/she manages his/her own company. Entrepreneurship acts as a catalyst to open the minds to creativity and innovation. Entrepreneurship internship can be from several sectors, including technology, small and medium-sized, and the service sector.

(3) Societal or social internship.

Urbanization is increasing on a global scale; and yet, half the world's population still resides in rural areas and is devoid of many things that urban population enjoy. Rural internship is a work-based activity in which students will have a chance to solve/reduce the problems of the rural place for better living.

As proposed under the AICTE rural internship programme, activities under Societal or social internship, particularly in rural areas, shall be considered for 40 points under AICTE activity point programme.



3rd to 8th Semester BE – Computer Science and Engineering

Scheme of Teaching and Examinations

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

(Effective from the academic year 2018 – 19)

Scheme of Teaching and Examination 2018 – 19

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

(Effective from the academic year 2018 – 19)

V SE	MESTER											
						ning H Week	ours	Examination				
Sl. No			Course Title		Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Fotal Marks	Credits
			L	T	P							
1	HSMC	18CS51	Management, Entrepreneurship for IT idustry	HSMC	2	2		03	40	60	100	3
2	PCC	18CS52	Computer Networks and Security	CS / IS	3	2		03	40	60	100	4
3	PCC	18CS53	Database Management System	CS / IS	3	2		03	40	60	100	4
4	PCC	18CS54	Automata theory and Computability	CS / IS	3			03	40	60	100	3
5	PCC	18CS55	Application Development using Python	CS / IS	3			03	40	60	100	3
6	PCC	18CS56	Unix Programming	CS / IS	3			03	40	60	100	3
7	PCC	18CSL57	Computer Network Laboratory	CS / IS		2	2	03	40	60	100	2
8	PCC	18CSL58	DBMS Laboratory with mini project	CS / IS		2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental [Paper setting:	1			02	40	60	100	1
				Civil Engineering Board]	10	10			2.0		000	
				TOTAL	18	10	04	26	360	540	900	25

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

Scheme of Teaching and Examination 2018 – 19

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

VI SI	EMESTE	R	T					1				1
					Teachi	ng Hours	/Week		Exami	nation	·	
SI. No			Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P			•,		
1	PCC	18CS61	System Software and Compilers	CS / IS	3	2		03	40	60	100	4
2	PCC	18CS62	Computer Graphics and Visualization	CS / IS	3	2	I	03	40	60	100	4
3	PCC	18CS63	Web Technology and its applications	CS / IS	3	2		03	40	60	100	4
4	PEC	18CS64X	Professional Elective -1	CS / IS	3			03	40	60	100	3
5	OEC	18CS65X	Open Elective –A	CS / IS	3			03	40	60	100	3
6	PCC	18CSL66	System Software Laboratory	CS / IS		2	2	03	40	60	100	2
7	PCC	18CSL67	Computer Graphics Laboratory with mini project	CS / IS		2	2	03	40	60	100	2
8	MP	18CSMP68	Mobile Application Development	CS / IS			2	03	40	60	100	2
9	9 (INT) (Internship)			(To be carrintervening semesters)							-	
				TOTAL	15	10	06	24	320	480	800	24

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

Professional Elective -1							
Course code under18XX64X	Course Title						
18CS641	Data Mining and Data Warehousing						
18CS642	Object Oriented Modelling and Design						
18CS643	Cloud Computing and its Applications						
18CS644	Advanced JAVA and J2EE						
18CS645	System Modelling and Simulation						
	Open Elective –A (Not for CSE / ISE Programs)						
18CS651	Mobile Application Development						
18CS652	Introduction to Data Structures and Algorithms						
18CS653	Programming in JAVA						
18CS654	Introduction to Operating System						

Students can select any one of the open electives offered by any Department (Please refer to the list of open electives under 18CS65X).

Selection of an open elective is not allowed provided,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

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

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

CIE procedure for Mini-project:

- (i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the Mini-project work, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.
- (ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all the guides of the college. The CIE marks awarded for the Mini-project, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Mini-project:

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

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

Scheme of Teaching and Examination 2018 – 19

Choice Based Credit System (CBCS) AND Outcome Based Education (OBE) (Effective from the academic year 2018 – 19)

VII S	EMESTER				<u> </u>		·					
					Teachi	ng Hours	/Week		Exami	nation		
Sl. No	Course and Course code		Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P			• • • • • • • • • • • • • • • • • • • •	-	
1	PCC	18CS71	Artificial Intelligence and Machine Learning	CS / IS	4			03	40	60	100	4
2	PCC	18CS72	Big Data Analytics	CS / IS	4			03	40	60	100	4
3	PEC	18CS73X	Professional Elective – 2	CS / IS	3			03	40	60	100	3
4	PEC	18CS74X	Professional Elective – 3	CS / IS	3			03	40	60	100	3
5	OEC	18CS75X	Open Elective –B	CS / IS	3			03	40	60	100	3
6	PCC	18CSL76	Artificial Intelligence and Machine Learning Laboratory	CS / IS			2	03	40	60	100	2
7	Project	18CSP77	Project Work Phase – 1	CS / IS			2		100		100	1
8	INT		[Internship]	(If not con carried out								be
				TOTAL	17		04	18	340	360	700	20

Note: PCC: Professional core, PE	Note: PCC: Professional core, PEC: Professional Elective, OEC: Open Elective, INT: Internship.							
Professional Elective - 2								
Course code under 18CS73X	Course Title							
18CS731	18CS731 Software Architecture and Design Patterns							
18CS732	High Performance Computing							
18CS733	Advanced Computer Architecture							
18CS734	User Interface Design							
Professional Electives – 3								
Course code under 18CS74X	Course Title							
18CS741	Digital Image Processing							
18CS742	Network management							
18CS743	Natural Language Processing							
18CS744	Cryptography							
18CS745	Robotic Process Automation Design & Development							
	Open Elective –B (Not for CSE / ISE Programs)							
18CS751 Introduction to Big Data Analytics								
18CS752 Python Application Programming								
18CS753	18CS753 Introduction to Artificial Intelligence							
18CS754	Introduction to Dot Net framework for Application Development							

Students can select any one of the open electives offered by any Department (Please refer to the list of open electives under 18CS75X). Selection of an open elective is not allowed provided,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

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

Project work: Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.

CIE procedure for Project Work Phase - 1:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

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

Scheme of Teaching and Examination 2018 - 19

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

	(Effective from the academic year 2018 – 19)									
VIII SEMESTER										
							Teachi	ng Hours	/Week	
						a t			7 5	,

					Teachi	ng Hours	/Week		Examir	ation		
Sl. No	Course and Course code		Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P				1	
1	PCC	18CS81	Internet of Things	CS / IS	3			03	40	60	100	3
2	PEC	18CS82X	Professional Elective – 4	CS / IS	3			03	40	60	100	3
3	Project	18CSP83	Project Work Phase – 2	CS / IS			2	03	40	60	100	8
4	Seminar	18CSS84	Technical Seminar	CS / IS			2	03	100		100	1
5	INT	(18CSI85)	(Internship)	(Completed during the intervening vacations of VI and VII semesters and /or VII and VIII semesters.)		03	40	60	100	3		
		•		TOTAL	06		04	15	260	240	500	18

Note: PCC: Professional Core, PEC: Professional Elective, OEC: Open Elective, INT: Internship.

Professional Electives – 4									
Course code	Course Title								
under 18CS82X									
18CS821	Mobile Computing								
18CS822	Storage Area Networks								
18CS823	NoSQL Database								
18CS824	Multicore Architecture and Programming								

Project Work CIE procedure for Project Work Phase - 2:

- (i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.
- (ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Project Work Phase - 2:

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

Internship: Those, who have not pursued /completed the internship shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card. Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).





Scheme of Teaching and Examination and Syllabus B.E. CIVIL ENGINEERING

(Effective from Academic year 2018-19)

General Notes:

- 1. Question Paper Pattern for Theory Courses:
 - The question paper will have TEN questions, Each full question carries 20 marks, There will be two full questions (with a maximum of four subquestions) from each module. Each full question will have sub questions covering all the topicsunder a module.
 - Students will have to answer 5 full questions, selecting one fullquestion from each module.
- 2. The teaching learning process should be as per the Choice Based CreditSystem
- 3. All Civil Engineering Departments should have a "CIVIL ENGINEERINGMUSEUM" with collections like models, charts, material samples, fixtures and fittings etc. which assist effectiveteaching learning process.
- 4. The teaching learning process may be planned to develop capabilities, competencies and skills required for career development based on coursebeginning and course end surveys.
- 5. Course objectives, course outcomes and RBT levels given under each course in the syllabus are indicative/suggestive. The facultycan set them appropriately according to their lesson/ course plan.
- 6. The course coordinators/teachers/instructors are informed to deliberate in the faculty meeting with module coordinator, program coordinatoralong with the stake holders to develop the respective lesson/ courseplans.
- 7. The department advisory board may make suitable changes to thecourse objectives, course outcomes according to their finalized course plans.
- 8. The faculty should complement the teaching with case studies and fieldvisits wherever required.
- 9. At least one faculty development program to be conducted to complimentteaching learning process by the department in a year

Scheme of Teaching and Examination 2018 – 19

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

(Effective from the academic year 2018 – 19)

Programme: CIVIL ENGINEERING

V SEMESTER

					Teachin	g Hours	/Week		Exam	ination		
SI. No		urse and irse code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Ouration in hours	CIE Marks	SEE Marks	otal Marks	Credits
					L	T	P)	52	T	
1	HSMC	18CV51	Construction Management & Entrepreneurship	Civil Engg.	2	2		03	40	60	100	3
2	PCC	18CV52	Analysis of Indeterminate Structures	Civil Engg.	3	2		03	40	60	100	4
3	PCC	18CV53	Design of RC Structural Elements	Civil Engg.	3	2		03	40	60	100	4
4	PCC	18CV54	Basic Geotechnical Engineering	Civil Engg.	3			03	40	60	100	3
5	PCC	18CV55	Municipal Wastewater Engineering	Civil Engg.	3			03	40	60	100	3
6	PCC	18CV56	Highway Engineering	Civil Engg.	3			03	40	60	100	3
7	PCC	18CVL57	Surveying Practice	Civil Engg.		2	2	03	40	60	100	2
8	PCC	18CVL58	Concrete and Highway Materials Laboratory	Civil Engg.		2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/Environmental [Paper setting Board:	1			02	40	60	100	1
				Civil Engineering]								
			·	TOTAL	18	10	04	26	360	540	900	25

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

Scheme of Teaching and Examination 2018 - 19

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

(Effective from the academic year 2018 – 19)

Programme: CIVIL ENGINEERING

VI SEMESTER

					Teac	hing Hours	/Week		Exami	nation		
Sl. No		rse and rse code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Fotal Marks	Credits
					L	T	P					
1	PCC	18CV61	Design of Steel Structural Elements	Civil Engg.	3	2		03	40	60	100	4
2	PCC	18CV62	Applied Geotechnical Engineering	Civil Engg.	3	2		03	40	60	100	4
3	PCC	18CV63	Hydrology and Irrigation Engineering	Civil Engg.	3	2		03	40	60	100	4
4	PEC	18CV64X	Professional Elective -1	Civil Engg.	3			03	40	60	100	3
5	OEC	18CV65X	Open Elective -A	Civil Engg.	3			03	40	60	100	3
6	PCC	18CVL66	Software Application Laboratory	Civil Engg.		2	2	03	40	60	100	2
7	PCC	18CVL67	Environmental Engineering Laboratory	Civil Engg.		2	2	03	40	60	100	2
8	EP	18CVEP68	Extensive Survey project	Civil Engg.		2	2	03	40	60	100	2
9	Internship		Internship	To be carried of	out during t	he vacation	n/s of VI and	VII seme	sters an	d/or VI	and VIII	semesters.
			·	TOTAL	15	12	06	24	320	480	800	24

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

Professional Elective -1

	1 TOTOSSIVING DICENTO 1						
Course code							
under18CV64X							
18CV641	Matrix Method of Structural Analysis						
18CV642	Solid Waste Management						
18CV643	Alternate Building Materials						
18CV644	Ground Improvement Techniques						
18CV645	Railway, Harbours, Tunnelling & Airports						
_							

Open Elective -A

Course code under18CV65X	
18CV651	Remote Sensing & GIS
18CV652	Traffic Engineering
18CV653	Occupational Health & Safety

18CV654 Sustainability Concepts in Civil Engineering

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

Selection of an open elective shall not be allowed if,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

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

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

Scheme of Teaching and Examination 2018 – 19

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

(Effective from the academic year 2018 – 19)

Programme:	CIVIL	ENGI	NEERING
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					Teachi	ng Hours /	Week		Exa	mination		
Sl. No		se and se code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	Т	P			•		
1	PCC	18CV71	Quality Surveying and Contract Management	Civil Engg.	3			03	40	60	100	3
2	PCC	18CV72	Design of RCC and Steel Structures	Civil Engg.	3			03	40	60	100	3
3	PEC	18CV73X	Professional Elective - 2	Civil Engg.	3			03	40	60	100	3
4	PEC	18CV74X	Professional Elective - 3	Civil Engg.	3			03	40	60	100	3
5	OEC	18CV75X	Open Elective -B	Civil Engg.	3			03	40	60	100	3
6	PCC	18CVL76	Computer Aided Detailing of Structures	Civil Engg.		2	2	03	40	60	100	2
7	PCC	18CVL77	Geotechnical Engineering Laboratory	Civil Engg.		2	2	03	40	60	100	2
8	Project	18CVP78	Project Work Phase - 1				2		100		100	1
9	Internship		[Internship]	(If not complete vacation of VII			on of VI a	and VII ser	nesters, it	shall be	carried out du	iring the
				TOTAL	15	04	06	21	380	420	00	20

Note: PCC:	Professional	core, PEC:	Professional	Elective.

Professional Elective - 2

Course code under 18CV73X	Course Title				
18CV731	Theory of Elasticity				
18CV732	Air Pollution and Control				
18CV733	Pavement Materials & Construction				
18CV734	Ground Water Hydraulics				
18CV735	8CV735 Masonry Structures				
	Professional Flactives 3				

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	TIVE STATE OF THE		
Course code under 18CV74X	Course Title		
18CV741	Earthquake Engineering		
18CV742	Design Concepts of Building Services		
18CV743	Reinforced Earth Structures		

18CV744	Design of Hydraulic Structures
18CV745	Urban Transport Planning
	Open Elective -B
Course code under 18CV75X	Course Title
18CV751	Finite Element Method
18CV752	Numerical Methods and Applications
18CV753	Environmental Protection and Management

Students can select any one of the open electives offered by other Departments expect those that are offered by the parent Department (Please refer to the list of open electives under 18XX75X).

Selection of an open elective shall not be allowed if,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

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

Project work:

Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.

CIE procedure for Project Work Phase - 1:

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

The CIE marks awarded for the project work phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable.

The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

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

Scheme of Teaching and Examination 2018 – 19

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

(Effective from the academic year 2018 – 19)

Programme: CIVIL ENGINEERING

VIII SEMESTER

						Teaching Hours /Week		Examination					
Sl. No		irse and irse code	Course Title	Teaching	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Fotal Marks	Credits	
					L	T	P			91	T		
1	PCC	18CV81	Design of Pre-stressed Concrete	Civil Engg.	3		1	03	40	60	100	3	
2	PEC	18CV82X	Professional Elective - 4	Civil Engg.	3		-	03	40	60	100	3	
3	Project	18CVP83	Project Work Phase - 2	Civil Engg.			16	03	40	60	100	8	
4	Seminar	18CVS84	Technical Seminar	Civil Engg.			2	03	100		100	1	
5	Internship	18CVI85	(Internship)	Completed during the vacation/s of VI and VII semesters and /or VII and VIII semesters.)			03	40	60	100	3		
				TOTAL	06		18	15	260	240	500	18	

Note: PCC: Professional Core, PEC: Professional Elective.

Professiona	l Flectives -	4

Course code under 18CV82X	Course Title						
18CV821	Bridge Engineering						
18CV822	Prefabricated Structures						
18CV823	Advanced Foundation Engineering						
18CV824	Rehabilitation & Retrofitting						
18CV825	Pavement Design						

Project Work

CIE procedure for Project Work Phase - 2:

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

The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Project Work Phase - 2:

Scheme of Teaching and Examination 2018 - 19

Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)

Programme: B.E: Electronics & Communication Engineering

VI SEMESTER

				VI SEMESTER									
					Teaching Hours /Week			Examination					
SI. No	Course and Course code		Course Title		Teaching	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
	D.C.C.	Lionaci			L	T 2	P		- 10		100	<u> </u>	
l	PCC	18EC61	Digital Communication		3	2		03	40	60	100	4	
2	PCC	18EC62	Embedded Systems		3	2		03	40	60	100	4	
3	PCC	18EC63	Microwave and Antennas		3	2		03	40	60	100	4	
4	PEC	18XX64X	Professional Elective -1		3			03	40	60	100	3	
5	OEC	18XX65X	Open Elective -A		3			03	40	60	100	3	
6	PCC	18ECL66	Embedded Systems Laboratory			2	2	03	40	60	100	2	
7	PCC	18ECL67	Communication Laboratory			2	2	03	40	60	100	2	
8	MP	18ECMP68	Mini-project				2	03	40	60	100	2	
9	9 Internship Internship To be carried out during the vacation/s of VI and VII semesters and /or VII and VIII semesters.												
	-			TOTAL	15	10	6	24	320	480	800	24	

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

Professional Elective -1

Professional Elective -1						
Course code under 18XX64X	Course Title					
18EC641	Operating System					
18EC642	Artificial Neural Networks					
18EC643	Data Structures using C++					
18EC644	Digital System Design Using Verilog					
18EC645	Nanoelectronics					
18EC646	Python Application Programming					

Open Elective -A

(i) 18EC651 Signal Processing (ii) 18EC652 Sensors & Signal Conditioning

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

Selection of an open elective shall not be allowed if,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

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

Mini-project work:

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

CIE procedure for Mini-project:

- (i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the Mini-project work shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.
- (ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all the guides of the college.

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

SEE for Mini-project:

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

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

Scheme of Teaching and Examination 2018-19

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

(Effective from the academic year 2018 – 19)

Programme: B.E: Electronics & Communication Engineering

11081	VII SEMESTER											
				ţ	Teachi	ng Hours	/Week	Examination				
SI. No	Cours Course		Course Title	Teaching Departmen	Theory Lecture	Tutorial	Practical/ Drawing	uration in hours	IE Marks	EE Marks	otal Marks	Credits
1	PCC	18EC71	Computer Networks		L 3	T	P	03	40	60	100	3
2	PCC	18EC72	VLSI Design		3			03	40	60	100	3
3	PEC	18XX73X	Professional Elective - 2		3			03	40	60	100	3
4	PEC	18XX74X	Professional Elective - 3		3			03	40	60	100	3
5	OEC	18XX75X	Open Elective -B		3			03	40	60	100	3
6	PCC	18ECL76	Computer Networks Lab			2	2	03	40	60	100	2
7	PCC	18ECL77	VLSI Laboratory			2	2	03	40	60	100	2
8	Project	18ECP78	Project Work Phase - 1				2		100		100	1
9	Internship		Internship	(If not completed during the vacation of VI and VII semesters, it shall be carried out during the vacation of VII and VIII semesters)								
			_	TOTAL	15	04	06	21	38	420	800	20

Professional Elective - 2					
Course code under 18XX73X	Course Title				
18EC731	Real Time Systems				
18EC732	Satellite Communication				
18EC733	Digital Image Processing				
18EC734	DSP Algorithms & Architecture				

Professional Elective - 3						
Course code under 18XX74X	Course Title					
18EC741	IoT & Wireless Sensor Networks					
18EC742	Automotive Electronics					
18EC743	Multimedia Communication					
18EC744	Cryptography					
18EC745	Machine Learning with Python					
Onen Elective -B						

Open Elective -B

(i) 18EC751 Communication Theory (ii) 18EC752 Neural Networks

Students can select any one of the open electives offered by other Departments expect those that are offered by the parent Department (Please refer to the list of open electives under 18XX75X). Selection of an open elective shall not be allowed if,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

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

Project work:

Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinaryproject can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.

CIE procedure for Project Work Phase - 1:

- (i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of the project work phase -1 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.
- (ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

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

Scheme of Teaching and Examination 2018-19

Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)

Programme: B.E: Electronics & Communication Engineering

VIII SEMESTER

					Teac	hing Hou	ırs /Week		Exami	ination		
Sl. No		rse and se code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	OIE Marks	SEE Marks	Otal Marks	Credits
1	PCC	18EC81	Wireless and Cellular Communication		L	<u> </u>	P	03	40	60	100	2
2			•		3							2
2	PEC	18XX82X	Professional Elective - 4					03	40	60	100	- 5
3	Project	18ECP83	Project Work Phase - 2				2	03	40	60	100	8
4	Seminar	18ECS84	Technical Seminar				2	03	100		100	1
5	Internship	18ECI85	Internship	Completed during the vacation/s of VI and VII semesters and /or VII and VIII 03 40 semesters.)			40	60	100	3		
	TOTAL 06 04							15	260	240	500	18

Note: PCC: Professional Core, PEC: Professional Elective.							
Professional Elective - 4							
Course code under 18XX82X	Course Title						
18EC821	Network Security						
18EC822	Micro Electro Mechanical Systems						
18EC823	Radar Engineering						
18EC824	Optical Communication Networks						
18EC825	Biomedical Signal Processing						

Project Work

CIE procedure for Project Work Phase - 2:

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

The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and

question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

Participation of external guide/s, if any, is desirable.

The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

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

SEE for Project Work Phase - 2:
(i) Single discipline: Contribution to the project and the performance of each group member shall be assessed individually in semester end examination (SEE) conducted at the department.

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

Internship: Those, who have not pursued /completed the internship, shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements.

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

Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).

BE ELECTRICAL AND ELECTRONICS ENGINEERING
Scheme of Teaching and Examinations
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

Approved by BOS held on 24/5/2019

Scheme of Teaching and Examination 2018 – 19

Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

VI	CEME	STER

					Teachi	ng Hours	/Week		Exami	nation		
Sl. No	Course and Course code		Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Fotal Marks	Credits
					L	T	P			5,	I	
1	PCC	18 EE61	Control Systems	EEE	3	2		03	40	60	100	4
2	PCC	18 EE62	Power System Analysis – 1	EEE	3	2		03	40	60	100	4
3	PCC	18 EE63	Digital Signal Processing	EEE	3	2		03	40	60	100	4
4	PEC	18 EE64X	Professional Elective -1	EEE	3			03	40	60	100	3
5	OEC	18 EE65X	Open Elective -A	EEE	3			03	40	60	100	3
6	PCC	18 EEL66	Control System Laboratory	EEE		2	2	03	40	60	100	2
7	PCC	18 EEL67	Digital Signal Processing Laboratory	EEE		2	2	03	40	60	100	2
8	MP	18 EEMP68	Mini-project				2	03	40	60	100	2
9	9 Internship Internship			To be carri		ring the	vacation/s	of VI an	nd VII se	mesters	and /or `	VII
	•			TOTAL	15	10	06	24	320	480	800	24

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

	Professional Elective -1									
Course code under18XX64X										
18 EE641	Introduction to Nuclear Power									
18 EE642	Electrical Engineering Materials									
18 EE643	Computer Aided Electrical Drawing									
18 EE644	Embedded System									
18 EE645	Object Oriented Programming using C++									

Open Elective -A

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

Selection of an open elective shall not be allowed if,

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

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

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

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

Mini-project work:

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

CIE procedure for Mini-project:

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

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

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

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

SEE for Mini-project:

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

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

Scheme of Teaching and Examination 2018 – 19

Outcome Based Education(OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)

VII S	EMESTER		,		<i>)</i>							
					Teachi	ng Hours	/Week		Exami	nation		
Sl. No			Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P)	3		
1	PCC	18 EE71	Power System Analysis – 2	EEE	2	2	-	03	40	60	100	3
2	PCC	18 EE72	Power System Protection	EEE	3			03	40	60	100	3
3	PEC	18 EE73X	Professional Elective - 2	EEE	3			03	40	60	100	3
4	PEC	18 EE74X	Professional Elective - 3	EEE	3			03	40	60	100	3
5	OEC	18 EE75X	Open Elective -B	EEE	3			03	40	60	100	3
6	PCC	18 EEL76	PSS laboratory	EEE		2	2	03	40	60	100	2
7	PCC	18 EEL77	Relay & HV lab	EEE		2	2	03	40	60	100	2
8	Project	18 EEP78	Project Work Phase - 1	EEE			2		100	-	100	1
9	Internship		Internship	(If not con carried out	1	_					it shall b	е
			·	TOTAL	14	06	06	21	380	420	800	20

Note: PCC: Professional core, PEC: Professional Elective.

	Professional Elective - 2
Course code under 18XX73X	Course Title
18EE731	Solar and Wind Energy
18EE732	Sensors and Transducers
18 EE733	Integrated of Distribution Generation.
18 EE734	Advanced Control Systems
18 EE735	Reactive Power Control in Electric Power Systems
	Professional Electives - 3
Course code under 18 EE74X	Course Title
18 EE741	Industrial Drives and Application
18 EE742	Utilization of Electrical Power
18 EE743	PLC and SCADA
18 EE744	Smart Grid

Open Elective -B

Students can select any one of the open electives offered by other Departments expect those that are offered by the parent Department (Please refer to the list of open electives under 18XX75X).

Selection of an open elective shall not be allowed if,

18 EE745

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

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

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

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

Artificial Neural Network With Applications to Power Systems

Project work:

Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.

CIE procedure for Project Work Phase - 1:

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

The CIE marks awarded for the project work phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable.

The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 Report(covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

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

Scheme of Teaching and Examination 2018 – 19

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

(Effective from the academic year 2018 – 19)

VIII SEMESTER

					Teachi	ng Hours	/Week		Exami	ination		
SI. No	Course code		Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P					
1	PCC	18EE81	Power System Operation and Control	EEE	EEE 3			03	40	60	100	3
2	PEC	18EE82X	Professional Elective - 4	EEE	3			03	40	60	100	3
3	Project	18EEP83	Project Work Phase - 2				2	03	40	60	100	8
4	Seminar	18EES84	Technical Seminar				2	03	100		100	1
5	Internship	18EEI85	Internship	Complete VII seme semester	03	40	60	100	3			
	•	l .		TOTAL	06		04	15	260	240	500	18

Note: PCC: Professional Core, PEC: Professional Elective.

	Professional Electives - 4									
Course code	Course Title									
under 18XX82X										
18EE821	FACTs and HVDC Transmission									
18EE822	Electrical Estimation and Costing									
18EE823	Electric Vehicles Technologies									
18EE824	Power System Planning									
18EE825	Electrical Power Quality									

Project Work

CIE procedure for Project Work Phase - 2:

- (i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.
- The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.
- (ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable.
- The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Project Work Phase - 2:

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

Internship: Those, who have not pursued /completed the internship, shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements.

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

Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).



3rd to 8th Semester BE – Information Science and Engineering

Scheme of Teaching and Examinations

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

(Effective from the academic year 2018 – 19)

Scheme of Teaching and Examination 2018 – 19

Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)

V SEI	MESTER			-								
						ning H Week	ours		Exam	ination		
Sl. No		rse and rse code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P			0.1	_	
1	HSMC	18CS51	Management, Entrepreneurship for IT Industry	HSMC	2	2		03	40	60	100	3
2	PCC	18CS52	Computer Networks and Security	CS / IS	3	2		03	40	60	100	4
3	PCC	18CS53	Database Management System	CS / IS	3	2		03	40	60	100	4
4	PCC	18CS54	Automata theory and Computability	CS / IS	3			03	40	60	100	3
5	PCC	18CS55	Application Development using Python	CS / IS	3			03	40	60	100	3
6	PCC	18CS56	Unix Programming	CS / IS	3	I		03	40	60	100	3
7	PCC	18CSL57	Computer Network Laboratory	CS / IS		2	2	03	40	60	100	2
8	PCC	18CSL58	DBMS Laboratory with mini project	CS / IS		2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental [Paper setting: Civil Engineering Board]	1	1		02	40	60	100	1
				TOTAL	18	10	04	26	360	540	900	25

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

Scheme of Teaching and Examination 2018 - 19

Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)

VI SE	EMESTEI	R										
					Teachi	ng Hours	/Week		Exami	nation		
Sl. No			Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Fotal Marks	Credits
					L	T	P					
1	PCC	18IS61	File Structures	CS / IS	3	2		03	40	60	100	4
2	PCC	18IS62	Software Testing	CS / IS	3	2		03	40	60	100	4
3	PCC	18CS63	Web Technology and its applications	CS / IS	3	2		03	40	60	100	4
4	PEC	18CS64X	Professional Elective -1	CS / IS	3			03	40	60	100	3
5	OEC	18CS65X	Open Elective –A	CS / IS	3			03	40	60	100	3
6	PCC	18ISL66	Software Testing Laboratory	CS / IS		2	2	03	40	60	100	2
7	PCC	18ISL67	File Structures Laboratory with mini project	CS / IS		2	2	03	40	60	100	2
8	MP	18CSMP68	Mobile Application Development	CS / IS			2	03	40	60	100	2
9	9 INT Internship				ried out du g vacation					-	1	
			·	TOTAL	15	10	06	24	320	480	800	24

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

	Professional Elective -1
Course code under18XX64X	Course Title
18CS641	Data Mining and Data Warehousing
18CS642	Object Oriented Modelling and Design
18CS643	Cloud Computing and its Applications
18CS644	Advanced JAVA and J2EE
18IS645	Information Management System
	Open Elective –A (Not for CSE / ISE Programs)
18CS651	Mobile Application Development
18CS652	Introduction to Data Structures and Algorithms
18CS653	Programming in JAVA
18CS654	Introduction to Operating System

Students can select any one of the open electives offered by any Department(Please refer to the list of open electives under 18CS65X). Selection of an open elective is not allowed provided,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

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

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

CIE procedure for Mini-project:

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

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all the guides of the college. The CIE marks awarded for the Mini-project, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Mini-project:

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

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

Scheme of Teaching and Examination 2018 - 19

Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)

VII S	EMESTER											
					Teachi	ng Hours	/Week		Exami	nation		
Sl. No			Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Fotal Marks	Credits
					L	T	P			3 2		
1	PCC	18CS71	Artificial Intelligence and Machine Learning	CS / IS	4			03	40	60	100	4
2	PCC	18CS72	Big Data Analytics	CS / IS	4			03	40	60	100	4
3	PEC	18CS73X	Professional Elective – 2	CS / IS	3			03	40	60	100	3
4	PEC	18CS74X	Professional Elective – 3	CS / IS	3			03	40	60	100	3
5	OEC	18CS75X	Open Elective –B	CS / IS	3			03	40	60	100	3
6	PCC	18CSL76	Artificial Intelligence and Machine Learning Laboratory	CS / IS			2	03	40	60	100	2
7	Project	18CSP77	Project Work Phase – 1	CS / IS			2		100		100	1
8	INT		Internship	(If not completed during the vacation of VI and VII semesters, it has to be carried out during the intervening vacations of VII and VIII semesters								be
TOTAL 17 04 18 340 360 700 20												

Note: PCC: Professional core,	Note: PCC: Professional core, PEC: Professional Elective, OEC: Open Elective, INT: Internship.									
	Professional Elective - 2									
Course code under 18CS73X	Course Title									
18CS731	Software Architecture and Design Patterns									
18CS732	High Performance Computing									
18CS733	Advanced Computer Architectures									
18CS734	User Interface Design									
	Professional Electives – 3									
Course code under 18CS74X	Course Title									
18CS741	Digital Image Processing									
18CS742	Network management									
18CS743	Natural Language Processing									
18CS744	Cryptography									
18CS745	Robotic Process Automation Design & Development									
	Open Elective –B (Not for CSE / ISE Programs)									
18CS751	Introduction to Big Data Analytics									
18CS752	Python Application Programming									
18CS753	Introduction to Artificial Intelligence									
18CS754	Introduction to Dot Net framework for Application Development									

Students can select any one of the open electives offered by any Department (Please refer to the list of open electives under 18CS75X). Selection of an open elective is not allowed provided,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

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

Project work: Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.

CIE procedure for Project Work Phase - 1:

(i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

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

Scheme of Teaching and Examination 2018 – 19

Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 – 19)

VIII S	SEMESTE	3										
					Teaching Hours /Week							
SI. No		rse and rse code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P					
1	PCC	18CS81	Internet of Things	CS / IS	3			03	40	60	100	3
2	PEC	18CS82X	Professional Elective – 4	CS / IS	3			03	40	60	100	3
3	Project	18CSP83	Project Work Phase – 2	CS / IS			2	03	40	60	100	8
4	Seminar	18CSS84	Technical Seminar	CS / IS			2	03	100		100	1
5	INT	18CSI85	Internship	(Completed during the intervening vacations of VI and VII semesters and /or VII and VIII semesters.) (Completed during the intervening vacations of VI and VII semesters and /or VII and VIII semesters.)						3		
				TOTAL	06		04	15	260	240	500	18

Note: PCC: Professional Core, PEC: Professional Elective, OEC: Open Elective, INT: Internship.

Professional Electives – 4					
Course code under 18CS82X	Course Title				
18CS821	Mobile Computing				
18CS822	Storage Area Networks				
18CS823	NoSQL Database				
18CS824	Multicore Architecture and Programming				

Project Work CIE procedure for Project Work Phase - 2:

- (i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.
- (ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Project Work Phase - 2:

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

Internship: Those, who have not pursued /completed the internship shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card. Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).



MECHANICAL ENGINEERING

BE/B.Tech. Scheme of Teaching and Examinations
Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2018 – 19)

Scheme of Teaching and Examination 2018 – 19

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

(Effective from the academic year 2018 – 19)

VI SEMESTER

					Teachi	ng Hour	s /Week		Exam	ination		
Sl. No		rse and se code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P				•	
1	PCC	18ME61	Finite Element Methods		3	2		03	40	60	100	4
2	PCC	18ME62	Design of Machine Elements II		3	2		03	40	60	100	4
3	PCC	18ME63	Heat Transfer		3	2		03	40	60	100	4
4	PEC	18ME64X	Professional Elective -1		3			03	40	60	100	3
5	OEC	18ME65X	Open Elective -A		3			03	40	60	100	3
6	PCC	18MEL66	Computer Aided Modelling and Analysis Lab			2	2	03	40	60	100	2
7	PCC	18MEL67	Heat Transfer Lab			2	2	03	40	60	100	2
8	MP	18MEMP68	Mini-project				2	03	40	60	100	2
9	9 Internship Internship To be carried out during the vacation/s of VI and VII semesters and /or VII and VIII semesters.						or VII					
	TOTAL 15 10 06 24 320 480 800 24											

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

Professional Elective -1							
Course code under Course Title Course code under Course Title							
18XX64X		18XX64X					
18ME641	Non-Traditional Machining	18ME644	Vibrations and Noise Engineering				
18ME642	Refrigeration and Air conditioning	18ME645	Composite Materials Technology				
18ME643	Theory of Elasticity	18ME646	Entrepreneurship Development				
Open Elective -A							

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

Selection of an open elective shall not be allowed if,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

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

Mini-project work:

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

CIE procedure for Mini-project:

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

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

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all the guides of the college. The CIE marks awarded for the Mini-project, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25.The marks awarded for the project report shall be the same for all the batch mates.

SEE for Mini-project:

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

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

Scheme of Teaching and Examination 2018 – 19

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

(Effective from the academic year 2018 – 19)

VIII	SEM	Tr C'	TTD

					Teachi	ng Hour	s/Week		Exami	ination		
SI. No		se and e code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Fotal Marks	Credits
					L	T	P			3	L	
1	PCC	18ME71	Control Engineering		3			03	40	60	100	3
2	PCC	18ME72	Computer Aided Design and Manufacturing		3			03	40	60	100	3
3	PEC	18ME73X	Professional Elective - 2		3			03	40	60	100	3
4	PEC	18ME74X	Professional Elective - 3		3			03	40	60	100	3
5	OEC	18ME75X	Open Elective -B		3			03	40	60	100	3
6	PCC	18MEL76	Computer Integrated Manufacturing Lab			2	2	03	40	60	100	2
	PCC	18MEL77	Design Lab			2	2	03	40	60	100	2
7	Project	18MEP78	Project Work Phase - 1				2		100		100	1
8	Internship		Internship (If not completed during the vacation of VI and VII semesters, it shall be carried out during the vacation of VII and VIII semesters)									
	TOTAL 15 04 06 18 340 360 700 20											

Professional Elective - 2

Course code under	Course Title	Course code	Course Title
18XX73X		under 18XX73X	
18ME731	Design for Manufacture	18ME734	Total Quality Management
18ME732	Automation and Robotics	18ME735	Operations Research
18ME733	Computational Fluid Dynamics		

Professional Electives - 3

11 diessional Licetives - 5							
Course code under	Course Title	Course code	Course Title				
18XX74X		under 18XX74X					
18ME741	Additive Manufacturing	18ME744	Mechatronics				
18ME742	Emerging Sustainable Building Cooling	18ME745	Project Management				
	Technologies						
18ME743	Theory of Plasticity						

Open Elective -B

Students can select any one of the open electives offered by other Departments expect those that are offered by the parent Department (Please refer to the list of open electives under 18XX75X).

Selection of an open elective shall not be allowed if,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of the Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

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

Project work:

Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary project can be assigned to an individual student or to a group having not more than 4 students. In extraordinary cases, like the funded projects requiring students from different disciplines, the project student strength can be 5 or 6.

CIE procedure for Project Work Phase - 1:

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

The CIE marks awarded for the project work phase -1, shall be based on the evaluation of the project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the Project report shall be the same for all the batch mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable.

The CIE marks awarded for the project work phase -1, shall be based on the evaluation of project work phase -1 Report (covering Literature Survey, Problem identification, Objectives and Methodology), project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

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

Scheme of Teaching and Examination 2018 – 19

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

(Effective from the academic year 2018 – 19)

VIII SEMESTER

			Teaching Hours /Week			urs /Week	Examination					
Sl. No		rse and rse code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P					
1	PCC	18ME81	Energy Engineering		3			03	40	60	100	3
2	PEC	18ME82X	Professional Elective - 4		3			03	40	60	100	3
3	Project	18MEP83	Project Work Phase - 2				2	03	40	60	100	8
4	Seminar	18MES84	Technical Seminar				2	03	100		100	1
5	Internship	18XXI85	Internship	Completed during the vacation/s nship of VI and VII semesters and /or VII and VIII semesters.)			03	40	60	100	3	
	•	•		TOTAL	06		04	15	260	240	500	18

Note: PCC: Professional Core, PEC: Professional Elective.

Course code under 18XX82X	Course Title	Course Title	
18ME821	CNC Machine Tools	under 18XX82X 18ME824	Automobile Engineering
18ME822	Tribology	18ME825	Tool Design
18ME823	Non-Destructive Testing and Evaluation	18ME826	Fracture Mechanics

Project Work

CIE procedure for Project Work Phase - 2:

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

The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable.

The CIE marks awarded for the project work phase -2, shall be based on the evaluation of project work phase -2 Report, project presentation skill and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE for Project Work Phase - 2:

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

Internship: Those, who have not pursued /completed the internship, shall be declared as fail and have to complete during subsequent University examination after satisfying the internship requirements.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card. Activity points of the students who have earned the prescribed AICTE activity Points shall be sent the University along with the CIE marks of 8th semester. In case of students who have not satisfied the AICTE activity Points at the end of eighth semester, the column under activity Points shall be marked NSAP (Not Satisfied Activity Points).

Question paper pattern:

- The question paper will have ten full questions carrying equal marks.
- Each full question will be for 20 marks.
- There will be two full questions (with a maximum of four sub- questions) from each module.

SI. No.	Title of the Book	Name of the Author/s	Name of the Publisher	Edition and Year
Textbook	s			
1	Advanced Engineering	E. Kreyszig	John Wiley &	10 th Edition, 2016
	Mathematics		Sons	
2	Higher Engineering	B. S. Grewal	Khanna	44 th Edition, 2017
	Mathematics		Publishers	
3	Engineering Mathematics	Srimanta Pal et al	Oxford	3 rd Edition, 2016
			University Press	
Reference	e Books			
1	Advanced Engineering	C. Ray Wylie, Louis	McGraw-Hill	6 th Edition, 1995
	Mathematics	C. Barrett	Book Co	
2	Introductory Methods of	S. S. Sastry	Prentice Hall of	4 th Edition 2010
	Numerical Analysis		India	
3	Higher Engineering	B.V. Ramana	McGraw-Hill	11 th Edition,2010
	Mathematics			
4	A Text Book of Engineering	N. P. Bali and	Laxmi	2014
	Mathematics	Manish Goyal	Publications	
5	Advanced Engineering	Chandrika Prasad	Khanna	2018
	Mathematics	and Reena Garg	Publishing,	

Web links and Video Lectures:

- 1. http://nptel.ac.in/courses.php?disciplineID=111
- 2. http://www.class-central.com/subject/math(MOOCs)
- 3. http://academicearth.org/
- 4. VTU EDUSAT PROGRAMME 20



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Department of Computer Science & Engineering

	Academic Year 2022-23				
		DBMS M	lini Project Details		
SI No	NAME	USN	DBMS Mini Project Title		
1	ABHIRAM MURALI	1RI20CS001	Covid bed slot booking management system		
2	ABHISHEK KUMAR	1RI20CS002	hostel management system		
3	AKSHAY KUMAR	1RI20CS003	hostel management system		
4	ANAGHA UNNI	1RI20CS006	online food delivery system		
5	ANANYA E	1RI20CS008	Online shopping system		
	ANKIT DHALA SAMANTA	1RI20CS009	Unemployment database management system		
7	ASHWATH REDDY S	1RI20CS010	online examination		
8	AYAN KUMAR JANA	1RI20CS011	Bank Management System		
9	BASANTA PAL	1RI20CS012	Project Mangement System		
10	BHAGYAREKHA S	1RI20CS013	Event management system		
11	BIRBAL	1RI20CS014	Gym management system		
12	DEEPAK R	1RI20CS015	vehicle parking management system		
13	HARSHITHA K	1RI20CS016	crime reporting management system		
14	HARSHITHA M	1RI20CS017	Inventory control management system		
15	HEMA G	1RI20CS018	crime reporting management system		
16	HETHISHE B J	1RI20CS019	Tourism Management System		
77	KISHAN C L	1RI20CS022	Hospital management system		
18	LALLAN SHARMA	1RI20CS023	fitness tracker		
19	LAXMI	1RI20CS024	Inventory control management system		
20	MANJUNATH NAIK L	1RI20CS025	courier management system		
21	MOHAMMED GHOUSE J	1RI20CS026	Hospital management system		
22	MOHAMMED UMAR FAROOK	1RI20CS027	Railway booking management system		
23	MOHITH G KALYAN	1RI20CS028	employee management system		
24	M S SWAROOP	1RI20CS029	employee management system		
25	MUSTHAFA	1RI20CS030	Online course registrataion		
26	NAVEEN P L	1RI20CS032	Online course registration		
27	NISANTA NATH	1RI20CS033	Bank Management System		
28	NIYATHI A REDDY	1RI20CS034	Tourism Management System		
29	PRAJAPATHI SIRISHA SHANKAF	1RI20CS035	online food ordering system		

Г				
3	30	PRAVEEN KUMAR O	1RI20CS03	d unemployment database management system
3	31	PREM KUMAR S R	1	7 Agroculture farm management system
3	32	PRIYANSHU PRAKHAR	1RI20CS038	Social Networking Site
3	3	R VINAY PATIL	1RI20CS039	Restaurant Management system
3	4	RITIKKUMAR C SHETTY	1RI20CS040	Implementation of IPL database management system
3	5	SALONI KUMARI	1RI20CS041	Insurance management
3	6	SANA AFREEN	1RI20CS042	college management system
3	7	SANJANA M DESOOR	1RI20CS043	Car rental management system
3	8	SAURABH JEE	1RI20CS044	Student Management System
3	9 !	SHARMILAA R	1RI20CS045	Restaurant Management system
40	2 5	SHRAVANI P	1RI20CS046	Pharmacy Management System
4	1 5	SINCHANA S	1RI20CS047	car rental management system
42	2 5	SITESH ROY	1RI20CS048	Project Management System
43	3 S	SNEHA L	1RI20CS049	Electricity Bill Generation System
44	S	OUMYADEEP PATRA	1RI20CS050	Railway booking management system
45	S	RUSHTI H K	1RI20CS051	Online shopping system
46	S	UHAIL N	1RI20CS052	Vehicle Parking management system
47	S	UNIL R	1RI20CS053	Implementation of IPL database management system
48	S	URAJ M	1RI20CS054	online examination system
49	S	URBHI	1RI20CS055	Travel and tourism Management System
50	T.	ANMOY CHAKRABORTY	1RI20CS056	Student Management System
51	T	EJASWINI R C	1RI20CS057	Pharmacy management system
52	T	EJASWINI S	1RI20CS058	Electricity Bill Generation System
53	T	HARUN K	1RI20CS059	covid bed slot booking management system
54	VI	ENKATESH DILIP GAROLE	1RI20CS060	courier management system
55	YI	UKTHA M	1RI20CS061	Insurance management
56	D	IPU KUMAR SAH	1RI20CS062	Travel and tourism Management System
57	sı	JNIL KUMAR SHAH	IRI20CS063	Catering Mangement System
58	\top	ASV	IRI20CS064	Blood bank management system
59	1	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	RI20CS065	Social Networking Site
60	\top	14 400-55	RI20CS066	Gym management system
61		TATE OF THE PERSON OF THE PERS		Blood bank management system
62	_	TRACT - A -		Catering Management system
		Control of the contro	1	agroculture farm management system
US	117	INTERPRETATION IN CALLEY		2 11 ()



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Department of Information Science & Engineering

Since 1993

Project Demo

Date: 28/04/2023

PROJECT BATCH LIST WITH TITLES AY-2022-23

	Title of the Project						
CI No	Batch	Guide Name	Student Name	The state of the s			
Sl. No.	Dates		Aditi Sahu	Assistive Device for Deaf, Dumb and Blind			
2.		Dr. Erappa G	Raunak Raj	Using Raspberry Pi			
3.	B1	D., L. PP.	Rohit Vikram	using Raspocity 11			
4.			Rupam Pal				
5.			Sujan D	1 System			
6.		Prof.	Subhash S	Face Recognition Attendance System			
7.	B2	Nishchitha T S	Lokesh Y				
8.			Sushil C				
9.			Mohammed				
,			Qurram	Web Application			
10.	7 00	Dr. Naveen M	Md Ajajur	Patient Database System Web Application			
10.	B3		Rahman				
11.			Denwin Davis				
12.			Lalan Kumar	Food Waste Management System for			
13.		TABLE TO	Shashank S	FOOD Waste Walley			
14.		D Marian M	Kushal C	Mobile Application			
15.	B4	Dr. Naveen M	Dhanya M				
16.			Rakshitha H S				
10.				IoT Based Weather Monitoring and Twitter			
17.		Prof. Manjula R	Akash Kumar	To I Based weather Women-			
18.	De		Tionna	Notification			
19.	B5	C	Zunda Sigonda				
20.			Dippanita Dey				
21.			Vijay M				
22.		Prof.	Likitha Varshini	GSM based Self Monitoring System for			
23.		Nishchitha T S	Meghana M R	Asthma Patient			
24.		1 (1511011111111111111111111111111111111	Chaitrashree	1 Islimia 1 www.			
21.							
25.			Nikee Mehta				
26.		Prof. Sowmya J	Rakesh Kumar Y	Vehicle Monitoring and Accident Alert			
27.	B7	1 101. DO WIII ya s	Birendra Kumar	System.			
28.			Awashyak Poudel				
			Ashwin Poudel	- y			
29.			Bikram Gupta	Development of an Interpretable Maritime			
30.	B8	. 101, 00		accident prediction system using Machine			
31.			Dinesh Dhanuk	Learning.			
32.			Samir Singh				
33.	B9 P		Varun K Reddy	Crop Prediction based on Characteristics of			
34.	D9 1	101.	Akash R M	the Agriculture Environment using various			

				Feature Selection Techniques and Classifiers. Robo System
35. 36.		Emmanuel R	Chandan R Tejaswini P	Detection Ro
37. 38. 39.		Prof. Emmanuel R	Savad Paul	using
40. 41. 42.		Prof. Manjula	Alokendu Ghosh Saugat Tiwari Rahul	Intelligence Video Surviellance through Cyber Security using Deep Learing.
43. 44.	B11	R C	Lamichhane Asheesh Krishna Lekraj Thappa	Security
45. 46. 47.	B12	Dr. Naveen M	Javed Chowdhury Vyas Balakrishna Babita Kurmi	Weather Forcasting and Minimum Support Price Prediction for Crops
48. 49. 50.	P42	Dr. Erappa G	Meghashree Roy Gaganashree.k Navya.k.R	Smart Automation in Agriculture using IoT.
51. 52. 53.	B13	Prof.	Venkat rami reddy Jathin.s.d Chintana	Air pollution monitoring system using Deep
54.	B14	Emmanuel R	Ayush Mishra	Learning

Project Coordinator

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Hesaraynatta Main Road
Challwabanavara, Bangalors





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Department of Mechanical Engineering

List of II year students undergone Internship: 2022-23

SN	USN	NAME	PLACE	TITLE	DURATION
1	1RI20ME013		NANATOM Bangalore	Material resting	11.10.2022 to 31.10.2022
2	1RI21ME001	ABHINAV ARYAL	RRIT	Leal lillig MJ Word, Excertaine	25.4.2022 to 14.5.2022
3	1RI21ME002	ABIN BIJU	RRIT	HTML Coding	25.4.2022 to 14.5.2022
4	1RI21ME004	AMANTRAN BARH	RRIT	Learning Mis Word, Excertaine	25.4.2022 to 14.5.2022
5	1RI21ME005	A ANTO AKSHAY	RRIT	Learning MS word, Excel and Power Point	25.4.2022 to 14.5.2022
6	1RI21ME008	VISHWA G	RRIT	Learning MS word, Excel and Power Point	25.4.2022 to 14.5.2022
7	1RI21ME009	KALLOL ROY	RRIT	Learning MS word, Excel and Power Point	25.4.2022 to 14.5.2022
8	1RI21ME010	KAUSHAL KUMAR SINGH	RRIT	Learning MS word, Excel and Power Point	25.4.2022 to 14.5.2022
9	1RI21ME011	LALIT KUMAR SINGH	RRIT	Learning MS word, Excel and Power Point	25.4.2022 to 14.5.2022
10	1RI21ME012	LOGESHWARAN P	RRIT	Learning MS word, Excel and Power Point	25.4.2022 to 14.5.2022
11	1RI21ME013	MOHAMMED RAAFI H U	RRIT	Learning MS word, Excel and Power Point	25.4.2022 to 14.5.2022
12	1RI21ME01	MOHAMMED MOONIS	RRIT	Learning MS word, Excel and Power Point	25.4.2022 to 14.5.2022
13	1RI21ME01	4	NANATON Bangalore	M Material Testing	11.10.2022 to 31.10.2022
14	1RI21ME01	NIRAJAN PRASAD YADAV	RRIT	Survey and study of Published literature, industrial safety and Learning MS word	25.4.2022 to 14.5.2022
15	1RI21ME02	RIDHIL KRISHNA P S	RRIT	HTML Coding	25.4.2022 to 14.5.2022
16	1RI21ME02	3 SHRISTEE YADAV	NANATO Bangalor	M Material Testing	11.10.2022 to 31.10.2022
1	7 1RI21ME02	4 WANPLIBOR PARIONG		M Material Testing	11.10.2022 to 31.10.2022
1	1RI22ME40	AKHIL KRISHNA	RRIT	Learning MS word, Excel and Power	25.4.2022 to 14.5.2022



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Department of Mechanical Engineering

	1RI22ME401				
19		HEMANTH KUMAR J	Micromati Bangalore	Customizing service-Based Business processes from Composite Web Services	24.5.2023 to 03.06.2023
20	1RI22ME402	JAGADEESH K	Micromati Bangalore	Customizing service-Based Business processes from Composite Web Services	24.5.2023 to 03.06.2023
21	1RI22ME403	PRAJWAL H R	Micromation Bangalore	Customizing service-Based Business processes from Composite Web Services	24.5.2023 to 03.06.2023
22	1RI22ME404	RAHULTP	RRIT	Learning MS word, Excel and Power Point	24.5.2023 to 03.06.2023
23	1RI22ME405	SACHIN S M	RRIT	Survey and Study on TIG welding	24.5.2023 to
24	1RI22ME406	SIDDESH B R	Micromatic Bangalore	Customizing service-Based Business processes from Composite Web Services	24.5.2023 to 03.06.2023
25	1RI22ME407	SUHAS T V	Micromatic Bangalore	Customizing service-Based Business processes from Composite Web	24.5.2023 to 03.06.2023

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Department of Computer Science & Engineering

INTERNSHIP STUDENT LIST

Academic Year: 2022-23

Sl.No	USN	Student Name	Internship Allotted
1.	1R121CS005	Abhi M	
2.	1R121CS006	Abhi V	
3.	1R121CS008	Abhishek R V	
4.	1R121CS043	Gururaj R	
5.	1R121CS121	Vandana R	
6.	1R121CS095	S Shiny Juliet	
7.	1R121CS054	Kruthi M L	Dr. Manjunath R
8.	1RI21CS126	Zayed M	•
9.	1R121CS064	Mohammed Suhail A M	
10.	1RI21CS124	Yeshwanth B	
11.	1RI21CS027	Basim S	
12.	1RI21CS073	Neeraj Kumar Singh	
13.	1RI21CS074	Neha Lama	
14.	1RI21CS048	Hema R	
15.	1RI21CS030	Binita Paul	
16.	1RI21CS114	Suhas V U	
17.	1R121CS099	Sanmith R L	
18.	1R121CS077	Pavan D C	Dr. Niranjan C
19.	1RI21CS072	Nandeesha	Dr. Waanjan C
20.	IRI21CS112	Sri Lakshmi M	
21.	1R121CS083	Prathibha S	
22.	1R121CS097	Sahana M R	
23.	1R121CS076	Pallavi S	
24.	1R121CS003	Abdul Khalid	
25.	1R121CS060	Md Aashif Raza	2
26.	1R121CS091	Rohan Rathod	Dr. Shivakumar Swamy
27.	1RI21CS106	Siddhant Kumar Jha	Di. Siliyakullal Swalliy
28.	1RI21CS007	Abhinav Singh	
29.	1R121CS093	Rohit Raut	
30.	1RI21CS033	Debdeepta Samui	
31.	1R121CS029	Bikash Sah	
32.	IRI21CS122	Veeksha S	

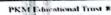
33.	1RI21CS115	Suma G M	
34.	1RI21CS059	Manoj Gowda N	
	1RI21CS125	Yogesh P	
35.	1RI21CS085	Puneeth T	
36.	1RI21CS103	Sharmila B	
37.	1RI21CS087	Rahul	
38.	1RI21CS047	Harshitha S L	Prof. Shruthi.S
40.	1RI21CS117	Susmita Midya	rioi. Siliutii. S
41.	1RI21CS080	Prarthana Nath	
42.	1R121CS079	Poulomi Bhattacharya	
43.	1R121CS088	Rahul	
44.	1RI21CS001	Aarati	
45.	1RI21CS015	Aman Roushan	
46.	1RI21CS102	Shaily Raj	
47.	1RI21CS062	Mohamed Ramshad	
48.	1RI21CS092	Rohan S	
49.	1RI21CS028	Bharath G	Prof. Veena V
50.	1RI21CS042	Goutham S	
51.	1RI21CS094	Rohith K N	
52.	1RI21CS084	Promit Saha	
53.	1RI21CS110	Souvagya Maity	
54.	1RI21CS105	Shovan Maity	
55.	1RI21CS107	Sivam Mukherjee	
56.	1RI21CS120	Tejas V	•
57.	1RI21CS058	Madhumitha D	
58.	1RI21CS055	Kruthika S H	
59.	1RI21CS049	Hemashree S	
60.	1RI21CS061	Misriya Ebrahim Mohasin	
61.	1RI21CS046	Harikrishnan M	
62.	1RI21CS111	Sreenandhana P S	
63.	1RI21CS069	Muhamed Aslam	Prof. Lakshmi Devi
64.	1RI21CS057	M N Shashank	
65.	1RI21CS067	Mohith H L	
66.	1RI21CS002	Aashish Kumar Yadav	
67.	1R121CS013	Akshay Adiveppa Teli	
68.	1R121CS004	Abdul Shamil	
69.	1R121CS070	Muhammed Asheem P K	
70.	1RI21CS071	Muhammed Yasar	
71.	1RI21CS010	Absh Najeeb	

72. 1RI21CS113	Suhas S Telkar	
73. 1R121CS118	Swamy K B T	
74. 1R121CS075	P S Chandrachooda	
75. 1R121CS082	Pratheek Y	
76. 1R121CS096	Sachin R Nair	Prof. Shobha Rani N R
77. 1R121CS109	Sooryajith S	
78. IRI21CS116	Suman Samanta	
79. 1R121CS123	Yeman Chaudhary	
80. 1R121CS041	Gheewala Suchit Vishal	
81. 1R121CS014	Aman Kokher	
82. 1R121CS019	Ankit Pattanayak	
83. 1R121CS024	Arjun P Ramesh	
84. 1R121CS017	Amrutha S	
85. 1R121CS018	Anagha P S	
86. 1R121CS068	Monisha B M	Prof. Revathi B
87. 1R121CS108	Sneha D Nayak	Fioi. Revailli B
88. IRI21CS101	Sayyid Mohamed Hisham P H	
89. 1R121CS090	Rinshad P R	
90. 1R121CS051	Jiyad C	
91. 1R121CS066	Mohammed Sanjidh Roshan	
92. 1RI21CS012	Aishwarya H M	
93. 1R121CS035	Deepa S	
94. 1RI21CS040	Gayathri A V	
95. 1RI21CS032	Chikkanna Murthy Chola	
96. 1RI21CS078	Pavankumar	
97. 1RI21CS081	Prasanna Mohan Naik	Prof. Sowmya N
98. IRI21CS100	Santhosh N	•
99. IRI21CS098	Sakil Rahaman Majumder	
100 1RI21CS104	Shibam Das	
101 1RI21CS009	Abhishek Singh	
102 IRI21CS016	Amir Hamja	
103 IRI21CS037	G Dinesh Kumar	
104 IRI21CS026	B K Balaji	to the second
105 IRI21CS056	Lingaraj Muradi	
106 IRI21CS031	Chandan S	
107 IRI21CS063	Mohammed Riyan	Prof. Veena M S
108 1R121CS022	Anurag M	rioi. Veena IVI S
109 IRI21CS053	Joel T Sajeev	
110 IRI21CS020	Anshil Rihan V K	

138	IRIQQCS411	Ujwal H.N	
137	1R122CS410	Siddharth Sanjay Revankar	
136	1R122CS409	Shradha Virendra Patil	
135	1RI22CS408	Nithish T L	
134	1R122CS407	Nandini C	
133	1R122CS406	Mohan R	
132	1RI22CS405	Lakshmi H S	
131	1R122CS404	Lakshmesh Gowda M S	Prof. Asha V
130	1R122CS403	Kiran Kumar	
129	1R122CS402	Dheeraj Harshith P	
128	1R122CS401	Basavaraj Shankar Muttagi	
127	1R122CS400	Balaji Gowda M R	
126	1R121CS021	Anshwal P Anil	
125	1R121CS052	Jobin P Thomas	
124	1R121CS086	Rafeek S	
123	1R121CS065	Mohammed Zahid	
122	1RI21CS036	Devaraj S	
121	1R121CS025	Ashitosh S Joshi	FIG. Freedom
120	1R121CS089	Rickson Prajwal Pereira	Prof. Proethi
119	1RI21CS119	Syed Arshur Rehman	
118	1R121CS011	Adinath Rajeevan	
117	1R121C 8050	Jishin Suresh	
116	1R121C 8045	Halul Raj A	
115	IR121C 8044	Hafiz Hancefa	
114	1R121C5034	Deepa N	
112	1R121C 8039	Gagana P	
111	1R121CS023 1R121CS038	Apeksha N G Shree Devi	

1RIBICS127 Sagar Kumar Patel

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Department of Electrical and Electronics Engineering

Sub Code: 21INT49

Date 20-8-22

Internship Guide allotment for the Academic year 2022-2023

S.No	Usn No	Name	Scheme	Guide	Sign of the guide
1	1RI21EE002	ANUSHA G R	2021		
2	1RI21EE003	BHARATH KUMAR G	2021	SUNANDA C V	de
3	1RI21EE004	CHANDRA PRAKASH REDDY Y A	2021	SONAIVER	E
4	1RI21EE005	DARSHAN	2021		for ab
5	1RI21EE006	DEVRAJ RANA	2021	SOWMYA G J	100,000
6	1RI21EE007	JAYANTH H M	2021	PRADEESHA-J	1.12
7	1RI21EE008	MANISH SHRESTHA	2021 -		1
8	1RI21EE009	MANOJ GOWDA K J	2021	JHANSI. K	410
9	1RI21EE010	NANDANA GANESH	2021	- Committee of the Comm	
10	1RI21EE011	NATRAJ	2021		
11	1RI21EE012	PANDEY AMAN MAHENDRA PRASAD	2021	MADHAVI D	Judy.
12	1RI21EE013	PHULESHWAR YADAV	2021		, ,
13	1RI21EE014	PRAJWAL BHANDARI N	2021		
14	1RI21EE015	PRAJWAL C G	2021	GOWTHAM. G	(Nat
15	1RI21EE016	S ANAND	2021		140
16	1RI21EE017	SHIRSHA PAL	2021		
17	1RI21EE018	SNEHA P M	2021	ANUSHA D Y	Mc
18	1RI21EE019	SUBHASH CHANDRA K B	2021		O
19	1RI21EE020	THARUN K	2021		
20	1RI21EE021	ULLAS M S	2021	VYSHNAV.B	(Q)
21	1RI21EE022	VANDANA A	2021		0
22	1RI21EE023	VARSHITHA B S	2021	00100000	1
23	1RI21EE024	VASANTH KUMAR G	2021	PRADEESHA. J	T. Phin

Principal

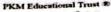
HOD OF ELECTRICAL & ELECTRONICS ENGINEERING

PRINCIPAL

R R Institute of Technology Hesaraghatta Main Road,

R.R. INSTITUTE OF TECHNOLOGY

Chikkabanavara, Bengaluru - 560090 Chikkabanavara, Bangalore - 560 090



R. R. Institute of Technology

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Accredited by NAAC with 'B+'

Raja Reddy Luyout, Chikkabanavara, Bengaluru - 560 090

Department of Electrical and Electronics Engineering

Sub Code: 21INT49

Date 12-5-2023

Internship Guide allotment

for the Academic year 2022-2023

S.No	Usn No	Name	Scheme	Gulde	Sign of the
1	1RI22EE400	ARVIND KS	2021	SUNANDA C V	fon Que
2	1RI22EE401	DEVIKA M	2021	SOITAINDACV	~
3	1RI22EE402	GIRISH R K	2021	JHANSI, K	
4		PAVAN B G	2021	MANSI. K	1.10
5	1RI22EE404	RAKESH M	2021	MADHAVI D	T uds.
6	1RI22EE405	SAGAR D	2021	MADHAVID	1/-
7	1RI22EE406	SONU SABU	2021	AVIIGUA D.V	Ser.
8	1RI22EE407	SUBHAJIT PATRA	2021	ANUSHA D Y	(D)
9	1RI22EE408	THARUN KUMAR R	2021		
10	1RI22EE409	VEERESH MUTTAPPA DANDIN	2021	PRADEESHA. J	J. Pearle
11	1RI22EE410	VIVEKANANDA K KALE	2021	GOWTHAM. G	TANA

O OF ELECTRICAL & ELECTRONICS ENGINEERS R R Institute of Technology Hesaraghatta Main Road Chikkabanavara, Bengaluru - 560090

R.R. INSTITUTE OF TECHNOL Hesaraghatta Main Road, Chikkabanavara, Bangalore -

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Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Electrical and Electronics Engineering

Date 01-08-2022

Internship Guide allotment

for the Academic year 2022-2023

S.No	Name	Scheme	Guide	Sign of the guide
1	BHOLA CHAUDHARY	2018	Sunanda C V	08
2	BHOOMIKA R	2018	Surianua C V	*/
3	DHANUSH S	2018	Jhansi K	#
4	DHEERAJ K	2018	Jugusi K	9.10
5	HUSSEIN ALI JUSSEIN MURSAL	2018		
6	RAUSHAN KUMAR SHRIVASTAVA	2018	Anusha D Y	d'an.
7	RUPESH KUMAR SAH	2018	Saumus C I	02
8	SHANKAR KUMAR YADAV	2018	Sowmya G J	S. L.
9	SNEHA JOESPHIN	2018	Mushman D	10 @_
10	SUHAIB M M	2018	Vyshnav B	de.
11	THEJASWINI B	2018	Madhari D	1111
12	UJJAL SARKAR	2018	Madhavi D	May.
13	AFSAI	2018	6.6	Out
14	FIRDOUSH	2018	G.Gowtham	48
15	IMRAN ALAM	2018	Pradeesha J	S. Prede

HOD 01/08/2021 Mehrel 1/8/22





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Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department Electrical & Electronics Engineering

Academic Year: 2022-2023

SEM: VI Sem

Subcode: 18EEMP68

Sub: Mini project

Date: 30.06.2023

		Group	1		
1	1RI20EE006 DEVPUKAR CHAUDARY		- 22 1 0 7		
2	1RI20EE403	VINAYAK MISHRA	1. Prof Sunanda C V 2.Prof Gowtham G	9.30 am -9.45 am	
3.	1RI20EE005	ABHINASH KUMAR			
Gro	oup 2			1	
4.	1RI20EE004	VIDYA S PRASAD			
5.	1RI21EE400	GAGANA S	1. Prof. Madhavi	9.45 am -10.00 am	
6.	1RI21EE401	NANDINI T S	Dasari 2. Prof Jhansi K		
7.	1RI20EE001	DIVYA S			
Gro	up 3			A STATE OF THE STA	
8.	1RI20EE003	NAVEEN G			
9	1RI21EE402	VADDE PAVAN	1. Prof Pradeesha J	10.00 am -10.15 am	
10.	1RI20EE007	DARSHAN GOWDA	2. Prof Anusha D Y		

(Madhavi Dasari)

HOD, EEE HOD OF ELECTRICAL & ELECTRONICS ENGINEERING R R Institute of Technology Hesaraghatta Main Road, Chikkabanavara, Bengaluru - 560090



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R. R. Institute of Technology
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Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Electrical & Electronics Engineering

Project Batches for AY: 2022-23

Sub;Proje	ct Phase-1	SubCode:18	EEP78 SEM:VII		
Datch No	MAME OF STUDENT	USN	Guides	TITLE OF THE PROJECT	
	Dheeraj K	1RI19EE004			
	Dhanush S	1RI19EE003	Mrs.Sunanda C V	Active Wireless Charging	
	Bhoomika R	1RI19EE002	Mr.Gowtham G	of Intransit Electric Bus	
1	Thejaswini B	1RI19EE011			
	Rupesh kumar sah	1RI19EE007		An Automated Radio Controlled Vehicular Movement System	
	Shankar kumar yadav	1RI19EE008	Mrs.Jhansi K		
	Sneha Joesphin	1RI19EE009	Mrs.Anusha D Y		
2	Afsal A	1RI20EE400		through Hand Guesture	
	Raushan Kumar Shrivastava	1RI19EE006			
	Bhola Chaudhary	1R19EE001	Mrs.Madhavi D	Microcontroller based	
	Firdoush Ansary	1R20EE402	Mrs.Pradeesha J	Commercial Power Save	
3	Imran Alam	1RI18EE008			
4	Hussein Ali Hussein Mursal	1RI19EE005		Agriculture Robot	
	Suhaib H M	1RI19EE010	Mrs.Soumya G J Mr. Vyshvnav B		
	Ujjal Sarkar	1RI19EE012	, The state of the		

Project Coordinator

Hésara.

PKM Educational Trust ®

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Raja Reddy Layout, Chikkabanavara, Bengaluru – 560 090

Department of Electronics & Communication Engineering

Date: 09-05-2023

MINI PROJECT GROUP OF SIXTH SEMESTER FOR THE ACADEMIC YEAR 2022-23

Sl.No	.No Name of student		Project Guide	Titles of Mini Project		
1	ANISA ZAHOOR	Group	Dr. RASMI.A	IoT based food spoilage detection		
2	CHITHRA A M	1	2	system with ESP8266		
3	PURROLLA NAVEEN KUMAR	Group 2	Prof: MOHAN KUMAR	voice assistant robotics for Hotel management system		
4	PYDALA ANJALI	用护室	5 m 五 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m			
5	KAMBALA HARI PRIYA		f. word			
6	ABHISHEK M	Group	Prof:	Attendance monitor using IOT		
7	MANOHAR JOSHINANDIBEVUR	3	SHYAMALA			
8	NIKETAN		10/			
9	SINCHANA R	Group	Prof:	Smart vacuum cleaner robot using		
10	SAHANA ITHLI	4	CHITHARANJA	ARDUINO		
11	SAVALAM NAVEENA	ELLE	N DAS	The state of the s		
12	BHIMAVARAM VINOD	Group	Prof:	Gas leakage with auto ventilation		
13	PAPASANI VENKATA HEMANTH REDDY	5	RAGHUNANDA N	&smart management system using IoT		
14	RAHUL P H		X/			
15	HARSHITH.G					

Signature of coordinator

Signature of HODgy Hesaraghatta Main Road, Chaikkabanavara, Bangalore - 90.





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Department of Mechanical Engineering

MINI PROJECT LIST

VI SEMESTER AY (2022-23)

GROUP NUMBER	USN	NAME	TEAM	GUIDE	PROJECT	
			LEADER		TITLE	
G 1	1RI20ME009	Rudra Dineshbhai Patel	Sanjay D	Dr.Chennabasavaraj	Fabrication of	
	1RI21ME401	Rakesh M		-	auger earth	
	1RI21ME402	Sanjay D			drilling machine	
G 2	1RI20ME004	Mahesh kumar mahato	Mahesh Kumar	Dr. Amarnath.G	Design and	
	1RI20ME005	Midhun T S	Mahato		modeling of	
	1RI21ME404	Sukanto Biswas		-	auger earth drilling machine	
G 3	1RI20ME008	Rohan LG	Shreyank V Patil	Mr.Srinivas K.R	Cost estimation of the parts and their material	
	1RI21ME403	Shreyank V Patil				
	1RI17ME350	Subhadeep Sinha	, -			
G 4	1RI21ME400	Abhishe kumar Thakur	Abhishe kumar	Mr.Lohith.J.K	identification Study of the	
	1RI20ME010	Tarif ansari	Thakur	Will. Edining. It	model in the field	
	1RI20ME002	Aidarab Debbarma		A .	of application	
	1RI20ME011	Varshith M		-	and future scope.	

Project Coordinator
Dr. Amaxnalt. G)

HOD-Mechanical

HOD of Mechanica: cirgineering R.R. Institute of Technology Ivesaraghatta Main Road,

Ch ikkabanavara, Bangalore - 90

Mahul & 1/13

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R.R. INSTITUTE OF TECHNOLO

Chikkabanavara, Bangalore - 560 0





R. R. Institute of Technology

TH Belgaum and Approved by AUTE. New Detht, Recognised by Govt, of Karnanaka Accredited by NAAC with 'B4' Baja Reddy Esycut, Chikkabanavara, Bengahiru = 560 690 Department of Electronics & Communication Engineerin

ALLOTMENT OF GUIDES FOR INTERNSHIP FOR THE AY 2022-2023

Semester: VII

Date: 11/08/2022

SL NO	USN	NAMES	GUIDES	
1	1RI19EC001	ABHISHEK N M	Dr Sunitha H.D.	
2	1RI19EC002	DEEP SHIKHA GUPTA	Dr Sunitha H.D.	
3	1RI19EC003	DEEPANJAN NATH	Mr Mallesha B.Y.	
4	1RI19EC004	DIGANTA HALDER	Mr Mallesha B.Y.	
5	1RI19EC006	JUBIN SINHA	Mrs Parimala Gandhi G.	
6	1RI19EC007	KAVYAHS	Mrs Parimala Gandhi G.	
7	1RI19EC008	MANNURU PENCHALA NARASIMHA	Mrs AnshuDeepak	
8	1RI19EC010	NELAPATI SUMANTH	Mrs AnshuDeepak	
9	1RI19EC011	POOJA C	Mrs AnshuDeepak	
10	1RI19EC012	PRIYADARSHINIMS	Mr Mohan Kumar	
11	1RI19EC013	RENUKAC	Mr Mohan Kumar	
12	1RI19EC014	SAI KIRAN G	Mr Mohan Kumar	
13	1RI19EC015	SHUBHASHREE B	Mr Chitranjan Das	
14	1RI19EC016	SRAMANA BHATTACHARYA	Mr Chitranjan Das	
15	1RI19EC019	VARSHITHAKR	Mr Chitranjan Das	
16	1RI19EC020	VISHNUKV	Mrs Shyamala Bhatt	
17	1RI20EC400	SAJAL KANHAIYAJAGTAP	Mrs Shyamala Bhatt	
18	1RI20EC401	SHIKHA KUMARI	Mrs Shyamala Bhatt	

R.A. Institute Honhnology

Hesaraghatta Main Road, Chaikkabanavara, Bangalore - 90.

PRINCIPAL PRINCI Chikkabanavara, Bangalore - 560 C



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Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Mechanical Engineering

Final Year Project Batch List AY-2022-23

SI.NO	Group	USN	Name of the Students
1		1RI19ME006	HASIBURAHMAN ANSARI
2	Group-1	1RI19ME014	PRASHANT MISHRA
3		1RI19ME005	HARSHIND T
4	A	1RI19ME006	ABISHEK KUMAR SAH
5	Group 2	1RI20ME400	IMAM SAHB
6	Group-2	1RI20ME403	PRASHANT DAS
7	*	1RI18ME005	ARPIT SINGH
8	Group 3	1RI19ME016	VISHAL KUMAR
9	Group-3	1RI18ME009	IZAZ KUFI
10		1RI18ME016	MINHAZUL ISLAM
11	Land I	1RI17ME002	ABILASH MOHAN
12	Group 4	1RI18ME006	ASWIN K JAYADAS
13	Group-4	1RI19ME003	ALBI K MATHEWS
14	-	1RI18ME002	AKASH KP
15		1RI20ME401	NAVEEN KB
16	Group-5	1RI20ME402	NIKHIL BG
17	Group-3	1RI20ME404	REVATHI VT
18		1RI20ME406	THILAK G
19		1RI19ME015	RANJAN LR
20	Group 6	1RI20ME405	SHIVAM
21	Group-6	1RI19ME013	PRAJWAL GL
22	,	1RI20ME407	YASHWANTH KM
23		1RI19ME002	AJAY HARI
24	Group 7	1RI19ME011	MIDHUN ABRAHAM
25	Group-7	1RI19ME012	NIHMAN P
26		1RI19ME009	K ATHUL
27		1RI19ME004	GANESH PUN
28		1RI18ME011	JAY SHRESTHA
29	Group-8	1RI19ME010	MD OWAIS ANSARI
30		1RI19ME008	ISHTIYAQUE AHMED KHAN

R.R. INSTITUTE OF TECHNOLOGY Chikkabanavara, Bangalore - 560 090.

HOD of Mechanical Engineering R.R. Institute of Technology hesaraghatta Main Road, Ch Ikkabanavara, Bangalore - 90.

Certificate by Aqmenz Automation Private Ltd



Aqmenz Automation Private Limited

CIN: U74999KA2018PTC117612





CERTIFICATE

OFCOMPLETION

THIS CERTIFICATE IS PROUDLY PRESENT TO

Apeksh AR

1RI21IS00

Has successfully completed Internship on "Python Programming & Application Projects" at Agmenz Automation Pvt. Ltd. from 11.10.2022 to 31.10.2022.

CERTIFICATE ISSUE NO: IN / 11588 / FY2022

MAD-

Mr Mohammed Azhar Hussain Chief Technology Officer (CTO), AGMENZ Automation Pvt. Ltd., Bengaturu - 560032



www.indoskill.in



M-0

Mr Mohan V S Chief Executive Officer (CEO), AGMENZ Automation Pvt. Ltd., Bengalunu - 560032

Certificate by ParvaM ConsulTech Private Ltd



Certificate of Internship

Date: 05/12/2022

To Whomsoever It May Concern

This is to certify that Mr Balram gowda B Kof RR Institution of Technology, has successfully completed his internship program of 3 weeks with ParvaM ConsulTech Pvt. Ltd. By contributing towards the Skill development of "Basics of Python".

During the tenure of internship from 10/10/2022 to 29/10/2022, we found him resourceful with quick learning capabilities making significant contribution towards the Tasks & activities assigned.

We wish him all the very best for a bright future.

100

Mohith Santhosh, Project Manager, ParvaM ConsulTech Pvt. Ltd.

Note: This is a digitally generated certificate and the seal is not required.

INTERNSHIP COMPLETION CERTIFICATE FROM COMPANY

TechnoFly Solutions



Internship Certificate

This is to certify that CHAITHANYA · B · N

BB INSTITUTE OF TECHNOLOGY has completed 3 months/weeks of Internship

From 11/10/2022 To 3/10/2022 in ARTIFICIAL INTELLIGENCE

We wish you all the best in your future endeavors.

Date: 31 10 2022

For TechnoFly Solutions



Bechnoffly Solutions, Vijayanagar, Bangaibre - 401 Mbb: 9663476586; 9741 150102 | www.technoffy.im



OF COMPLETION



DILLI RAM SHAHU

for successfully completing a one month internship in Ethical Hacking & Cyber Crime Investigation (EHCCI) with Slytherin EduTech Pvt. Ltd. During National Cyber Security Awareness Month From October 10th to Nov 10th 2022. Slytherin Wishes for your bright Future in Cyber Security.



Mr. Laxmi Narayan Sahu Founder & Director - Slytherin Edutech Pvt. Ltd.



Verification



MANIPUR TRIBAL DEVELOPMENT CORPORATION LTD.

(A Government of Manipur Undertaking) Lamphelpat, Imphal - 795004, Manipur (India)

Rogd. no. 1776 of 1979

OHSAS - 18001 : 2007

No. 03/EE-II/ MTDC-INT/2022

Date: 3rd Sept. 2022

TO WHOM IT MAY CONCERN

Thus is to certify that Ms/Mr MM Azaz Ahamad, student of Raja Raddy Institute of Technology, Chikkabanavara Bamgalore - 560090, has successfully completed a summer internship in MTDC Limited for II semester Bachelor Engineering in Civil Engineering of RR Institute of Technology in the field of foundation for building construction in the academic year 2021-22 from 11 to 30 Oct, 2022 under the guidance of Executive Engineer-II, MTDC LTD.

During the period of her/his internship program with us, she/he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish her/ him every success in her/ his life and career.

For, MTDC Ltd.

Md Salauddin Khan

EE-II, MTDC

Executive Engineer-II M.T.D.C. Ltd., Imphal



Project Asia Pvt. Ltd.

Ward No.-4, Imadole, Mahalaxmi Municipality, Lalitpur, Nepal



Date: - 29/10/2022

To Whom So Ever It May Concern,

This letter is to certify that Mr. SANTOSH KUMAR MAHATO, student of RRIT (RR Institute of Technology, Bangalore) has successfully completed his Civil Internship program with Project Asia Pvt. Ltd. The internship tenure was for 21 days starting from 10th October 2022 to 31st October 2022.

During the span, we found him punctual and hardworking person. The Feedback and evaluation proved that he learned keenly.

This Internship program was for BE CIVIL Students from project Asia Private Limited Ward No.-4 Imadole, Mahalaxmi municipality, Lalitpur, Nepal.

We wish him a very bright future ahead.

Shiv Shambhu Prasad Yadav

Site engineer at project Asia

Ward no.- 4 Imadole, Mahalarmi

Muncipality, Lalitpur, Nepal

0

+9779806882805

+9779845376850

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projectasia@gmail.com

unu. paltnepal. com

BARAHATHWA KHADYA UDHYOG

Barahath va-5, Salahi, Nepal Pine: 9817871750 PAN-605522727

letter Ref no: 79/80/33

November 02,2022

Nepal

Internship Completion Letter

This is to certify that Mr. Rahul Kumar Sing son of Mr.Laxman Singh Khushawaha, a Student of RR Institute of technology (Bachelor of Civil Engineering) II semester under visvesvaraya Technological University (VTU) with USN-1RI21CV036 has successfully completed 03 week Internship entitled "Inter/Intra Institutional Internship (21INT29)" (from 10-Oct-2022 to 31-oct-2022) at our company.

During the period of his internship programme with us he was found punctual, hardworking and inquisitive.

We wish him every success in life.

Proprietor :-Bimala kumari Devi Kushawaha

Phone:9844392550

राजपुर नगरपालिका

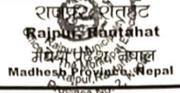


Rajpur Municipality

नगर कार्यपालिकाको कार्यालय

Office of The Municipal Executive

पत्र संख्या :- २०७९/०८० चलानी नं::- ९४९



E-mail: ito.rajpurmunrautahat@gmail.com ito@rajpurautahat.gov.np www.rajpurmunrautahat.gov.np

Date: - 03-Nov.-2022

TO WHOM IT MAY CONCERN

This is to certify that Mr. Mohammad Fazrullah, student of R.R. Institute of Technology, Bangalore, has successfully completed a summer internship in the field of site supervision from 13-Oct.-2022 to 03-Nov.-2022 under guidance of Er. Mohammad Shah Faishal.

During the period of is internship program with us, he had been exposed to different processes and was found diligent, hardworking and inquisitive.

We wish him very success in his life and career.

Pol. Links Deliktopili 3/filosoft



Project Asia Pvt. Ltd.

Ward No.-4, Imadole, Mahalaxmi Municipality, Lalitpur, Nepal

Certificate of Internship

Date: - 29/10/2022

To Whom So Ever It May Concern,

This letter is to certify that Mr. Raju Kumar Yadav, student of RRIT (RR Institute of Technology, Bangalore) has successfully completed his Civil Internship program with Project Asia Pvt. Ltd. The internship tenure was for 21 days starting from 10th October 2022 to 31st October 2022.

During the span, we found him punctual and hardworking person. The Feedback and evaluation proved that he learned keenly.

This Internship program was for BE CIVIL Students from Project Asia Private Limited Ward No.-4 Imadole, Mahalaxmi Municipality, Lalitpur, Nepal.

We wish him a very bright future ahead.

ShivShambhu Prasad Yadav

Site Engineer at Project Asia







Ward no.-4 Imadole, Mahalaxmi

+9779806882805

projectasia#gmail.com

Municipality, Lalitpur, Nepal +9779845376850

www.paltnepal.com



EVEREST COMPUTER INSTITUTE

R.R.M CAMPUS ROAD, MURLI CHOWK, JANAKPUR-04

INTERNSHIP CERTIFICATE OF COMPLETION

This is certify that Mr.Chandan sah having USN 1RI21CV010 student of R.R institute of technology has satisfactory completes internship program of MS-Word at Everest Computer institute.

During this period 11 oct to 30 oct he has actively engaged himself in routine ms-word. His general behavior, attitude and performance in connection with any job assigned to him were found to be satisfactory

We wish him every success in his academic & professional life.





Project Asia pvt. Ltd.

Ward No.-4, Imadole, Mahalaxmi Municipality, Lalitpur, Nepal



Date: - 29/10/2022

To Whom So Ever It May Concern,

This letter is to certify that mr. HAROON RASHID SAH, student of RRIT (RR Institute of Technology, Bangalore) has successfully completed his Civil Internship program with Project Asia Pvt. Ltd. The internship tenure was for 21days starting from 10th October 2022 to 31st October 2022.

During the span, we found him punctual and hardworking person. The Feedback and evaluation proved that he learned keenly.

This Internship program was for BE CIVIL Students from project Asia Private Limited Ward no.:-4 Imadole, Mahalaxmi municipality, Lalitpur, Nepal.

We wish him a very bright future ahead.

Shiv Shambhu Prasad Yadav

Site engineer at project Asia

0

Ward no.-4 imadole,mahalaxmi Municipality, lalitpur, nepal

+9779806882805 +9779845376850



projectAsia@gmail.com www.paltnepal.com

Regd. No. 18/2066/061/062



ULSIPUR, DANG Estd. 2061



PAGE	0010	7000	3127	T TT	CYON	36 1
We wish his/her success in every steps of life Grade:	13-10-2022- to 06-11-2022-	On OFFICE PACKAGE	Jfdistrict has successfully)f	Date of birth 04-09-2002 son/Daughter of Mr. SHANTA RAJ ADHIKARI	his is to certify that Mr./Mrs./ Miss YOGESH ADHIKARI
Secured Grade :- A		at this institute from	successfully completed the course	0. 04	RAJ ADHIKARI	

07-11-2022

Date :-

Instructor

Managing Director

B:-60% to 70%

:- 50% 59%

:- Less then 50%

A :- More than 80%

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KARNATAKA POWER TRANSMISSION CORPORATION LIMITED

Corporate Identification Number (C.I.N): U40109KA1999SGC025521

Human Resource Development Centre, Whitefield road, Hoody, Bengaluru-560048.

Telephone No.: 080-28540666 Website: https://kptcl.karnataka.gov.in

Email Address: admnhrdckptcl@gmail.com

No: KPTCL/HRDC/B-75/35590/2022-23

1607

Date 1 4 NOV 2022

To,
The Principal,
R.R Institute of Technology,
Chikkabanavara,
Bangalore.

Sir.

Sub: Completion of Internship training on "Study of 400/220kV Substation" in KPTCL" - Reg.

Ref: 1. Approval Letter No: KPTCL/ HRDC/ B-75/ 35590/ 22-23/1376-78 Dated: 11.10.2022.

2. Form "A" Certificate Dated: 09.11.2022.

Vide letter cited under ref (1), approval was accorded to Anusha G R, USN No: 1RI21EE002 pursuing B.E. in Electrical and Electronics Engineering at R.R Institute of Technology, Chikkabanavara, Bangalore to do Internship training on "Study of 400/220kV Substation" under the guidance of Smt Kavitha M Havaldar, Assistant Executive Engineer(Ele), 400/220 kV Receiving Station, KPTCL, Nelamangala, Bangalore

Smt Kavitha M Havaldar, Assistant Executive Engineer(Ele), 400/220 kV Receiving Station, KPTCL, Nelamangala, Bangalore has certified (vide ref-2) that the student has successfully completed the Internship training from 12.10.2022 to 30.10.2022.

Yours faithfully,

Administrator,

HRDC, KPTCL

Issue No. 1424



Regd. No. 14-2341-070-071 119100-070-071

Dynamic Education Complex Morang Pvt. Ltd.

(प्राबिधिक शिक्षा तथा व्यावसायिक तालीम परिषद्, सानोठिमी, भक्तपुरबाट सम्बन्धन प्राप्त) (Affiliated to the Council for Technical Education and Vocational Training, Sanothimi, Bhaktapur)



A CTEVT Affiliated Institute

प्रमाण-पत्र CERTIFICATE

Date of issue: .2.022.-11.-.0.9

(Course Coordinator)

Director / Principal







Certificate of Completion

Mr./Ms. Mohammed Zahid having Registration Number 1182759752 has successfully completed skill training in Digital Marketing Certificate is issued on 12/11/2022 This is to certify that

A COLLA BOTTAGE DEN AND LINE OF A COLLAR OF THE COLLAR OF

Abel Simon
Chief Compliance Officer



Shiny I George
Chief Asademic Faculty

INTERNSHIP CERTIFICTE



Agmenz Automation Private Limited

CIN: U74999KA2018PTC117612





CERTIFICATE

OFCOMPLETION

THIS CERTIFICATE IS PROUDLY PRESENT TO

Anurag M 1RI21CS022 Has successfully completed Internship on "Python Programming & Application Projects"

at Aqmenz Automation Pvt. Ltd. from 11.10.2022 to 31.10.2022 CERTIFICATE ISSUE NO: IN / 11768 / FY2022

Mr Mohammed Azhar Hussain Chief Technology Officer (CTO), ACMENZ Automation Pvt. Ltd., Bengaluru - 560032

ww.indoskill.in



Chief Executive Officer (CEO), AQMENZ Automation Pvt. Ltd., Bengaluru - 560032 Mr Mohan V S



GSG

CERTIFICATE



OF COMPLETION

THIS CERTIFICATE IS PRESENTED TO

RAHUL

Certificate no. SN091146-48C

Has successfully completed Cyber security program from digial India through CSC, IBM at Oct-19-22

Reg no. IR121CS087



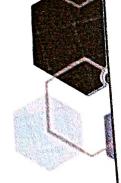


CIN: C8545674621NV72

Reg no.1R(21CS087

CERTIFICATE OF COMPLETION

this certificate presented to



Rahul

Has successfully completed Internship program on "CYBER SECURITY AND ETHICAL HACKING" at Jiha Classes Pve. Red. from 1-8.10.2022 to 20.10.2022.



PRAIDER SERVICE

Francisco Parcons

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Sohib Ali

COUNT AND Corporal Alexander to Textuodony of their Par Carrer 1977, 1979, Alexandred - 1999, 24

VERIFIED



CERTIFICATE OF COMPLETION

THIS IS TO CERTIFIED THAT

Poulomi Bhattacharya

Has successfully completed "Python Programming Language" Internship course on Microsoft corporation through eXD.



Pradeep Sehgel

Seniour director technical department

Satya Nadella

CEO

MICROSOFTCORPORATION

eXD Verified certificate issued Nov-01-2022

Certificate ID a6100745-Ghkyt-JH0091



Certificate ID a01815-28Bcxdf-JH0091

CERTIFICATE



VANDANA R



Python Programming Language

VERIFIED



issued on Nov-20-2022

Microsoft certified

VERIFIED



CERTIFICATE OF COMPLETION

THIS IS TO CERTIFIED THAT

AZURE FUNDAMENTALS

VANDANA R

Has successfully completed Python programming language course on Microsoft corporation through eXD



department

Satya Nadella

MICROSOFTCORPORATION

Certificate ID a01815-28Bcxdf-JH0091





RR INSTITUTE OF TECHNOLOGY

Chikkabanvara, Bangalore-560090



DEPARTMENT OF CIVIL ENGINEERING **CERTIFICATE**

This is to certify that, the project work entitled "EXTENSIVE SURVEY PROJECT (18CVEP68)" submitted by GAGAN DINESH (1RI19CV009) in fulfillment of the requirements for the award of the Bachelor in Civil Engineering, VTU Belagavi, during the academic year 2022-2023 is a bonafide carried by him under our supervision and guidance.

Signature of Camp Officer

Dr. Jagadeesha Kumar B G

Prof. Girish G

Signature of HOD

Dr. kumar R Rao HOD Civil Kngg.

R.R. INST. OF TRCHNOLOGY

Chilehensvara, Bangalore - 560 M

Signature of Principal

Dr. Mahendra K V

PRINCIPAL

R.R. INSTITUTE OF TECHNOLOGY

Chikkabanavara, Bangalore - 560 090,

Signature of External Examiners

RR INSTITUTE OF TECHNOLOGY

Chikkabanvara, Bangalore-560090



DEPARTMENT OF CIVIL ENGINEERING <u>CERTIFICATE</u>

This is to certify that, the project work entitled "EXTENSIVE SURVEY PROJECT (18CVEP68)" submitted by **AMAN KUMAR PAJIYAR** (1RI20CV001) in fulfillment of the requirements for the award of the Bachelor in Civil Engineering, VTU Belagavi, during the academic year 2022-2023 is a bonafide carried by him under our supervision and guidance.

Signature of Camp Officer

Dr. Jagadeesha Kumar B G

Prof. Girish G

Signature of HOD OGY HOD CIVIL OF HOD OGY 194. Human Herauseo os: Signature of Principal

Dr. Mahendra K V

PRINCIPAL

R.R. INSTITUTE OF TECHNOLOGY Chikkabanavara, Bangalore - 560 090.

Signature of External Examiners

1._

2. 141. 1-17

R R INSTITUTE OF TECHNOLOGY

CHIKKABANAVARA, BENGALURU - 560090

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING



CERTIFICATE

This is to certify that the mini project entitled "Brick Breaker" as a part of 18CSL67 laboratory, is a bonafide work carried out by SUNIL KUMAR SAH bearing USN: 1RI20CS063 bearing in partial fulfilment for the award of degree in Bachelor of Engineering in Computer Science Engineering from Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report submitted in the department Library. This mini project report has been approved as it satisfies the academic requirements in respect of mini project report prescribed for award of said degree.

Signature of Internal Guide

Signature of HOD

R.R. SINSTITUTE AFETECHNOLO Chikkabanavara, Bangalore - 560 (90.

[Dr. Mahendra K V]

[Dr. Shivakumar Swamy N]

[Dr. Manjunath R]

Principal

Professor

Prof. and Head

RRIT, Bangalore

Dept. of CSE, RRIT

Dept. of CSE, RRIT

Name of the Examiners

Signature with Date

1 Howahor Torothon 1-2 Manthe R

R R INSTITUTE OF TECHNOLOGY

CHIKKABANAVARA, BENGALURU - 560090

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING



CERTIFICATE

This is to certify that the mini project entitled "SORTING VISUALIZER" as a part of 18CSL67 laboratory, is a bonafide work carried out by ANKIT DHALA SAMANTA bearing USN:1RI20CS009 and ANANYA E bearing USN:1RI20CS008 in partial fulfillment for the award of degree in Bachelor of Engineering in Computer Science Engineering from Visvesvaraya Technological University, Belagavi during the academic year 2022-23. It is certified that all the corrections/suggestions indicated for internal assessment have been incorporated in the report submitted in the department Library. This mini project report has been approved as it satisfies the academic requirements in respect of mini project report prescribed for award of said degree.

Signature of Internal Guide

63

Professor

Signature of HOD

MEAD OF LIBUALTONIA

Signature of Principal PRINCIPAL

Dr. Shivakumar Swamy N Departmer of Language of Langua

HeProfyand Helia in Chikkabanav Prancipal Bangalore - 560 090

Chikkabanamia Bandalor

Dept. of CSE, RRIT

Dept. of CSE, RRIT

RRIT, Bangalore

Name of the Examiners

on esh to

Signature with Date

R R Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka, Accredited by NAAC with 'B+' Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Mechanical Engineering



CERTIFICATE

Certified that the Internship work entitled "STEEL PLANT IN PRODUCTION MANAGEMENT" carried out by HASIBURAHMAN ANSARI (USN: 1RI19ME006), a bonafide student of R R Institute of Technology in partial fulfillment for the award of Bachelor of Engineering in Mechanical Engineering of the Visveswaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Internship work prescribed for the said Degree.

Signature of Guide (Mr. Srinivas K R) Assistant Professor, Dept. of ME, RRIT

Signature of HOD (Dr. Channabasavaraj S) Head of Department, HorDept, of RRIT

Signature of Principal (Dr. Mahendra K V) Principal of RRIT, Bangalore

R.A. Institute of Technology RegINSTITUTE OF TECHNOLOGY Hesaraghata Main D. R. R. INSTITUTE OF TECHNOLOGY Hesaraghatta Main Roadhikkabanavara, Bangalore - 560 090
Ch Ikkabanavara, Bangalore - 95

External Viva

Name of the Examiners

1. Dr. Channobaravig 2. yoğendra Kurgar. &

Signature with date



ASHOK STEEL INDUSTRIES PVT. LTD. Works: JeetpursImara Sub-Metropolitan, Jeetpur, (Bara) Nepal

Phone: 977-53-520125 / 520041, Fax no. 00977-53-520155, Email: asisteeljpr@ntc.net.np Head Office: Bagmati Chamber, Milan Marg, Teku, Kathmandu, Nepal

PAN No.: 300020137

Date: 24th sep, 2022



To Whom It May Concern

This is to certify that we have conducted industrial internship program to Mr. Hasibu Rahman Ansari S/o Mr. Jafir Ahmed Ansari, student of B.E. (Mechanical Engineer) 7th sem. of RR Institute of Technology, Bengaluru has successfully completed internship in our organization under the guidance of Mr. Shahbaj Sheikh-Quality Manager (B.tech, Mechanical). for a period commencing from 26th Aug,2022 to 24th Sep,2022.

During the period of internship we found him hardworking and sincere,

We wish him all success for his future endeavours.

Mr. Shahbaj Sheikh



CS Scanned with CamScanner

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Department of Civil Engineering



CERTIFICATE

Certified that the Internship entitled "SEWAGE WATER TREATMENT AND SUPPLY" carried out by Mr. ARJUN N SHAJI (USN: 1RI16CV350), a bonafide student of R R Institute of Technology in partial fulfillment for the award of Bachelor of Engineering / Bachelor of Technology in Civil Engineering of the Visveswaraiah Technological University, Belgavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the said Degree.

Signature of Guide

Signature of HOD

Mrs.Gunasheela p

RRIT, Bangalore

Dr. Kumar R Rao

RRIT, Bangalore

Signature of Paincipal

R.R. INSTITUTE OF TECHNOLOGY

Chikkabana Var Mahandral KeV- 560 090.

RRIT, Bangalore

Signature of Internship Coordinator

Prof. Priyadarshini H P RRIT, Bangalore

External Viva

Name of the Examiners

1. Prof. Soull Sk

2. Dr. Kiran R

R R Institute of Technology

Affiliated to VTU Belgaum and Approved by AICTE, New Delhi, Recognised by Govt. of Karnataka, Accredited by NAAC with 'B+'& NBA Raja Reddy Layout, Chikkabanavara, Bengaluru - 560 090

Department of Civil Engineering



CERTIFICATE

Certified that the Internship entitled "Construction of Retaining Wall" carried out by MR. ASHWIN B C (USN: 1RI18CV004), a bonafide student of R R Institute of Technology in partial fulfillment for the award of Bachelor of Engineering / Bachelor of Technology in Civil Engineering of the Visveswaraya Technological University, Belagavi during the year 2022-23. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The Internship report has been approved as it satisfies the academic requirements in respect of Internship prescribed for the said Degree.

M. Abhishel Signature of Guide

Signature of HOD "hikkslanavara, Bangainre - 560 ng Dr. Kumar R Rao

Signature of Principal

Abhishek M RRIT, Bangalore

RRIT, Bangalore

Dr.Mahendra K V

RRITPBangalore R.R. INSTITUTE OF TECHNOLOGY Chikkabanavara, Bangalore - 560 000.

Signature of Internship Coordinator

Prof. Priyadarshini H P

RRIT, Bangalore

External Viva

Name of the Examiners

1. prof. Sourse 2. Dr. Kiran B

Signature with date