



Programme Specifications

B. Tech. Programme

Programme:
Civil Engineering

Department:
Civil Engineering

Faculty of Engineering & Technology
M.S. Ramaiah University of Applied Sciences

Programme Specifications: Civil Engineering	
Faculty	Engineering and Technology (FET)
Department	Civil Engineering
Programme	Civil Engineering
Dean of Faculty	Prof. Arulanantham
HOD	Dr. H. M. Rajashekharaswamy

1. Title of the Award

B.Tech. in Civil Engineering

2. Modes of study

Full-Time

3. Awarding Institution / Body

Ramaiah University of Applied Sciences – Bengaluru, India

4. Joint Award

Not Applicable

5. Teaching Institution

Faculty of Engineering and Technology

Ramaiah University of Applied Sciences - Bengaluru, India

6. Date of Programme Specifications

February 2018

7. Date of Programme Approval by the Academic Council of RUAS

May 2018

8. Next Review Date

May 2022

9. Programme Approving Regulatory Body and Date of Approval

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10. Programme Accrediting Body and Date of Accreditation

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11. Grade Awarded by the Accreditation Body

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12. Programme Accreditation Validity

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13. Programme Benchmark

Not Applicable

14. Rationale for the Programme

Civil Engineering is primarily infrastructure development involving planning, design, construction, and operation of facilities essential to modern life, ranging from transit systems to offshore structures to space satellites. Major disciplines within Civil Engineering that are closely interrelated are Structural, Environmental, Geotechnical, Water Resources, Transportation, Construction and Urban planning.

Until recently Civil Engineering teaching was limited to planning, analysis, design and execution of different types of infrastructure like buildings, roads, bridges, dams and power plants. However, increasing technological sophistication and demand for higher living standards fuelled by economic growth and concerns about environmental impact have changed the scope of Civil Engineering curriculum. The challenges of today's Civil Engineering infrastructure are much more complex including reducing carbon emission and interdependencies between resources.

Even though there are a large number of institutions world over which are producing Civil Engineers, there is a shortage of quality Civil Engineering graduates. The FET at RUAS would like to offer Civil Engineering programme to produce imaginative, creative and innovative Civil Engineers who are effective and efficient problem solvers providing economical and sustainable infrastructural solutions.

15. Programme Mission

The purpose of the Programme is creation of innovative problem solvers in multi-disciplinary settings, entrepreneurs and leaders applying the knowledge, understanding, cognitive abilities, practical skills and transferrable skills gained through systematic, flexible and rigorous learning in the chosen academic domain.

16. Graduate Attributes

1. Ability to apply knowledge of mathematics, science, and Engineering fundamentals to solve complex problems in engineering
2. Ability to analyse engineering problems, interpret data and arrive at meaningful conclusion involving mathematical inferences
3. Ability to design an engineering system, component, or process to meet desired needs considering public health and safety, and the cultural, societal, and environmental considerations
4. Ability to understand and solve complex engineering problems by conducting experimental investigations
5. Ability to apply appropriate tools and techniques and understand utilization of resources appropriately to complex engineering activities
6. Ability to understand the effect of engineering solutions on legal, cultural, social and public health and safety aspects
7. Ability to develop sustainable solutions and understand their effect on society and environment
8. Ability to apply ethical principles to engineering practices and professional responsibilities
9. Ability to work as a member of a team, to plan and to integrate knowledge of various engineering disciplines and to lead teams in multidisciplinary settings
10. Ability to make effective oral presentations and communicate technical ideas to a broad audience using written and oral means
11. Ability to lead and manage multidisciplinary teams by applying engineering and management principles
12. Ability to adapt to the changes and advancements in technology and engage in independent and life-long learning

17. Programme Goal

The programme goal is to produce graduates with critical, analytical and problem solving skills, and ability to think independently, to pursue a career in Civil Engineering.

18. Programme Objectives

The Programme will impart knowledge of Civil structures, Geotechnical interactions, Construction Engineering and Technology, Environmental Engineering, Hydrology, Irrigation and Water Management. It enhances the understanding of underlying engineering principles that govern the behavior of Civil Engineering systems. It teaches analytical modelling, simulation and analysis to study the behavior of Civil Engineering systems. It provides the skills to design, build and test Civil Engineering systems. It also trains students on personality development and interactive skills with professionals and feel for the society.

The objectives of the programme are to enable the students to:

1. To impart knowledge on Civil Engineering systems and their subsystems
2. To enhance the understanding of the underlying engineering principles of Civil Engineering systems
3. To model, simulate and analyze the behavior of Civil Engineering systems to predict and improve their performance
4. To design and build Civil Engineering systems to meet the specific needs
5. To impart training on instrumentation and testing of Civil Engineering systems
6. To train students on commercial software tools to design, model, simulate civil engineering systems
7. To build and test Civil Engineering systems
8. To impart training on professional ethics, history, economics, social sciences and interactive skills relevant to professional practice
9. To provide a general perspective on lifelong learning and opportunities for a career in industry, business and commerce

19. Intended Learning Outcomes of the Programme

The Intended Learning Outcomes (ILOs) are listed under four headings:

1. Knowledge and Understanding, 2. Cognitive Skills 3. Practical Skills and 4. Capability / Transferable Skills.

1. Knowledge and Understanding

After undergoing this programme, a student will be able to:

- KU1:** Identify and describe the various Civil Engineering structures, components, instruments and construction technologies
- KU2:** Explain the underlying science and engineering principles that govern the behaviour of the components of structures relevant to Civil Engineering
- KU3:** Identify various types of loads acting on Civil Engineering structures and explain their effect
- KU4:** Explain the relevant IS building codes and standard practices applicable

2. Cognitive Skills

After undergoing this programme, a student will be able to:

- CS1:** Design Civil Engineering materials, components and structures
- CS2:** Model, simulate, analyse and evaluate the behavior of Civil Engineering structures, components and data
- CS3:** Modify the existing design/processes to meet newer requirements
- CS4:** Apply science and engineering principles to evaluate performance of Civil engineering systems and answer "what if" questions

3. Practical Skills

After undergoing this programme, a student will be able to:

- PS1:** Construct fabricate, plan and design, prepare drawings, perform estimation and costing of Civil Engineering systems
- PS2:** Conduct survey for existing, proposed Civil Engineering structures and conduct field tests
- PS3:** Instrument, test a Civil Engineering system, components or material and evaluate for its performance as per standards
- PS4:** Prepare reports on materials, components, tests, experiments, environmental impacts of Civil Engineering constructions, water management, flood control and irrigation

4. Capability / Transferable Skills

After undergoing this programme, a student will be able to:

- TS1:** Manage information, develop technical reports and make presentations
- TS2:** Build, Manage and Lead a team to successfully complete a project and communicate across teams and organizations to achieve professional objectives
- TS3:** Work under various constraints to meet project targets
- TS4:** Adopt to the chosen profession by continuously upgrading his/her knowledge and understanding through Life-long Learning philosophy

20. Programme Structure**Programme Structure****Semester: 1, Physics Cycle**

Sl. No.	Code	Course Title	Theory (h/W/S)	Tutorials (h/W/S)	Practical (h/W/S)	Total Credits	Max. Marks
1	18BSC101A	Engineering Mathematics-1	3	2	0	4	100
2	18BSC102A	Engineering Physics	3	2	0	4	100
3	18ESC101A	Elements of Mechanical Engineering	3	0	0	3	100
4	18ESC102A	Elements of Electronics Engineering	3	2	0	4	100
5	18ESC103A	Engineering Drawing	1	0	4	3	100
6	18BSL103A	Engineering Physics Laboratory	0	0	2	1	50
7	18ESL104A	Basic Workshop Practice	0	0	2	1	50
8	18ESL105A	Basic Electronics Laboratory	0	0	2	1	50
9	18HST101A	Elements of Social Sciences and Ethics	2	0	0	2	50
Total			15	6	10	23	700
Total number of contact hours per week			31 hours				
Number of credits can be registered			Minimum	18	Maximum	23	

Semester: 2, Chemistry Cycle

Sl. No.	Code	Course Title	Theory (h/W/S)	Tutorials (h/W/S)	Practical (h/W/S)	Total Credits	Max. Marks
1	18BSC104A	Engineering Mathematics - 2	3	2	0	4	100
2	18BSC105A	Engineering Chemistry	3	0	0	3	100
3	18ESC106A	Engineering Mechanics and Construction Materials	3	2	0	4	100
4	18ESC107A	Elements of Electrical Engineering	3	2	0	4	100
5	18ESC108A	Elements of Computer Science and Engineering	3	2	0	4	100
6	18ESL109A	Computer Programming Laboratory	0	0	2	1	50
7	18BSL106A	Engineering Chemistry Laboratory	0	0	2	1	50
8	18ESL110A	Basic Electrical Engineering Laboratory	0	0	2	1	50
9	18HST102A	Professional Communication	2	0	0	2	50
Total			17	8	6	24	700
Total number of contact hours per week			31 hours				
Number of credits can be registered			Minimum	20	Maximum	24	

Semester: 1 Chemistry Cycle

Sl. No.	Code	Course Title	Theory (h/W/S)	Tutorials (h/W/S)	Practical (h/W/S)	Total Credits	Max. Marks	
1	18BSC101A	Engineering Mathematics-1	3	2	0	4	100	
2	18BSC105A	Engineering Chemistry	3	0	0	3	100	
3	18ESC106A	Engineering Mechanics and Construction Materials	3	2	0	4	100	
4	18ESC107A	Elements of Electrical Engineering	3	2	0	4	100	
5	18ESC108A	Elements of Computer Science and Engineering	3	2	0	4	100	
6	18BSL109A	Engineering Chemistry Laboratory	0	0	2	1	50	
7	18ESL106A	Basic Electrical Laboratory	0	0	2	1	50	
8	18ESL110A	Computer Programming Laboratory	0	0	2	1	50	
9	18HST102A	Professional Communication	2	0	0	2	50	
Total			17	8	6	24	700	
Total number of contact hours per week			31 hours					
Number of credits can be registered			Minimum	20	Maximum	24		

Semester : 2, Physics Cycle

S. No.	Code	Course Title	Theory (h/W/S)	Tutorials (h/W/S)	Practical (h/W/S)	Total Credits	Max. Marks	
1	18BSC104A	Engineering Mathematics-2	3	2	0	4	100	
2	18BSC102A	Engineering Physics	3	2	0	4	100	
3	18ESC101A	Elements of Mechanical Engineering	3	0	0	3	100	
4	18ESC102A	Elements of Electronics Engineering	3	2	0	4	100	
5	18ESC103A	Engineering Drawing	1	0	4	3	100	
6	18BSL103A	Engineering Physics Laboratory	0	0	2	1	50	
7	18ESL104A	Basic Workshop Practice	0	0	2	1	50	
8	18ESL105A	Basic Electronics Laboratory	0	0	2	1	50	
9	18HST101A	Elements of Social Science	2	0	0	2	50	
Total			15	6	10	23	700	
Total number of contact hours per week			31 hours					
Number of credits can be registered			Minimum	18	Maximum	23		

SEMESTER 3

Sl. No.	Code	Course Title	Theory (h/W/S)	Tutorials (h/W/S)	Practical (h/W/S)	Total Credits	Max. Marks
1	19MHB201A	Engineering Mathematics - 3	3	1	0	4	100
2	19CEC202A	Mechanics of Solids	2	2	0	4	100
3	19CEC203A	Mechanics of Fluids	2	2	0	4	100
4	19CEC204A	Engineering Survey	3	0	0	3	100
5	19CEC205A	Engineering Geology and Properties of Soils	3	0	0	3	100
6	19CEC206A	Building Materials, Concrete and Construction Technology	3	0	0	3	100
7	19CEL207A	Material Testing Laboratory	0	0	2	1	50
8	19CEL208A	Survey Practice	0	0	2	1	50
9	19CEL209A	Applied Engineering Geology Laboratory	0	0	2	1	50
10	19CEM210A	Environmental Studies	2	0	0	0	Audit
Total			18	05	06	24	750
Total number of contact hours per week			29				
Number of credits can be registered			Minimum	19	Maximum	24	

SEMESTER 4

Sl. No.	Code	Course Title	Theory (h/W/S)	Tutorials (h/W/S)	Practical (h/W/S)	Total Credits	Max. Marks
1	19MHB211A	Engineering Mathematics - 4	3	1	0	4	100
2	19CEC212A	Transportation Engineering - I	3	0	0	3	100
3	19CEC213A	Structural Analysis - I	2	2	0	4	100
4	19CEC214A	Hydraulics and Hydraulic Machines	3	0	0	3	100
5	19CEC215A	Environmental Engineering	3	0	0	3	100
6	19CEC216A	Building Planning and Computer Aided Drafting	1	0	4	3	100
7	19CEL217A	Hydraulics and Hydraulic Machines Laboratory	0	0	2	1	50
8	19CEL218A	Environmental Engineering Laboratory	0	0	2	1	50
9	19CEL219A	Concrete and Highway Materials Laboratory	0	0	2	1	50
Total			15	03	10	23	750
Total number of contact hours per week			28 hours				
Number of credits can be registered			Minimum	18	Maximum	23	

SEMESTER 5

Sl. No.	Code	Course Title	Theory (h/W/S)	Tutorials (h/W/S)	Practical (h/W/S)	Total Credits	Max. Marks
1	19CEC301A	Design of RCC Elements	2	2	0	4	100
2	19CEC302A	Structural Analysis - II	2	2	0	4	100
3	19CEC303A	Geotechnical Engineering - I	3	0	0	3	100
4	19CEC304A	Hydrology and Irrigation Engineering	3	0	0	3	100
5	19CEC305A	Design & Drawing of Transportation & Irrigation Structures	0	0	4	2	100
6	19CEC306A	Drawing of RCC Structures	0	0	2	1	50
7	19CEL307A	Geotechnical Engineering Laboratory	0	0	2	1	50
8	19CEL308A	Extensive Survey Project	0	0	2	1	50
Total			12	04	10	19	700
Total number of contact hours per week			26 hours				
Number of credits can be registered			Minimum	19	Maximum	23	

SEMESTER 6

Sl. No.	Code	Course Title	Theory (h/W/S)	Tutorials (h/W/S)	Practical (h/W/S)	Total Credits	Max. Marks
1	19CEC311A	Geotechnical Engineering - II	3	0	0	3	100
2	19CEC312A	Design of Steel Structures	2	2	0	4	100
3	19CEC313A	Estimation–Costing and Engineering Economics	3	0	2	4	100
4	19CEC314A	DSM & Finite Element Analysis	3	0	0	3	100
5	19CEC315A	Transportation Engineering - II	3	0	0	3	100
6	19CEC316A	Design & Drawing of Geotechnical & Environmental Structures	0	0	4	2	100
7	19CEL317A	Drawing of Steel Structures	0	0	2	1	50
8	19CEL318A	CAE Laboratory	0	0	2	1	50
Total			14	02	08	21	700
Total number of contact hours per week			24 hours				
Number of credits can be registered			Minimum	17	Maximum	21	

SEMESTER 7

Sl. No.	Code	Course Title	Theory (h/W/S)	Tutorials (h/W/S)	Practical (h/W/S)	Total Credits	Max. Marks
1	19CEE41XA	Professional Core Elective - 1	3	0	0	3	100
2	19CEE42XA	Professional Core Elective - 2	3	0	0	3	100
3	19CEO403A	Open Elective	3	0	0	3	100
4	19CEP404A 19CEP405A	I] Project Work – 1 II] Internship (Choose one)	0	0	12	6	100
5	19CEP406A	Seminar	0	0	2	1	50
Total			09	00	14	16	450
Total number of contact hours per week			23 hours				
Number of credits can be registered			Minimum	12	Maximum	16	

SEMESTER 8

Sl.No.	Code	Course Title	Theory (h/W/S)	Tutorials (h/W/S)	Practical (h/W/S)	Total Credits	Max. Marks
1	19CEE43XA	Professional Core Elective - 3	3	0	0	3	100
2	19CEE44XA	Professional Core Elective - 4	3	0	0	3	100
3	19CEP408A	Project Work - 2	0	0	20	10	100
Total			06	00	20	16	300
Total number of contact hours per week			26 hours				
Number of credits can be registered			Minimum	12	Maximum	16	

Professional Core Elective Courses:

Group	VII Sem			
	Course code	PCE-1 Course Title	Course code	PCE-2 Course Title
Group 1	19CEE411A	Traffic Engineering	19CEE421A	Pavement Materials, Equipment and Construction
Group 2	19CEE412A	Advance Structural Analysis	19CEE422A	Structural Dynamics and Earthquake Resistant Design of Structures
Group 3	19CEE413A	Advanced Surveying -Remote Sensing and GIS	19CEE423A	Advanced Hydrology
Group 4	19CEE414A	Advanced Concrete Technology	19CEE424A	Modern Construction Materials, Equipment and Technology
Group 5	19CEE415A	Solid Waste Management	19CEE425A	Industrial Wastewater Treatment
Group 6	19CEE416A	Ground Improvement Techniques	19CEE426A	Advanced Foundation Engineering
Common Group	19MTE401A	Probability and Statistics	19CSE421A	Data Sciences Foundation

Group	VIII Sem			
	Course code	PCE-3 Course Name	Course code	PCE-4 Course Name
Group 1	19CEE431A	Urban Transportation and Planning	19CEE441A	Pavement Design
Group 2	19CEE432A	Pre-stressed Concrete Technology	19CEE442A	Advanced Design of Reinforced Concrete Structures
Group 3	19CEE433A	Water Resources System	19CEE443A	Water Shed Management
Group 4	19CEE434A	Green Construction and Alternate Building Materials	19CEE444A	Construction Management and Engineering Economics
Group 5	19CEE435A	Air Pollution and Control	19CEE445A	Environmental Impact Assessment
Group 6	19CEE436A	Reinforced Soil Structures	19CEE446A	Soil Dynamics and Machine Foundations
Common Group	19CSE431A	Data Sciences Algorithms and Applications	19CSE441A	Data Analytics

21. Programme Delivery

As per Time Table

22. Teaching and Learning Methods

The module delivery comprises of a combination of few or all of the following:

1. Face to face lectures using audio-visuals
2. Workshops-group discussions, debates, presentations
3. Demonstrations
4. Guest lectures
5. Laboratory-work/Field work/Workshop
6. Industry visit
7. Seminars
8. Group Exercises
9. Project Work
10. Project Exhibitions
11. Technical Events

23. Assessment and Grading

1. Every course will be assessed for a weight of 100%
2. There are two components-Component-1 and Component-2
3. Component-1 (CE) carries a weight of 50% and Component -2 (SEE) carries a weight of 50%
4. Component-1 (CE): the course leader will indicate the mode of assessment in consultation and approval of the respective HoD and the faculty Dean, before commencement of the semester. The template for weightage of CE and SEE in percentages for each course is indicated in Table below.

	Bloom's Level of Thinking	Continuous Assessment , 50% Marks			Semester End Examination, 50% Marks
		CE-1, x%	CE-2, Y%	CE-3, Z %	
Level-1	Remember				
	Understand				
Level-2	Apply				
	Analyse				
Level-3	Evaluate				
	Create				
	Total	100%	100%	100%	100%

CE – can be from any combination of the following:

Assignments, term Tests, Seminars, Tech Talks, Mini-Projects, Case-Studies, Self-Study, others, if any.

5. Component -2 (SEE) is Written Examination 50 % weight.
6. Laboratory Examination will have two components
 - I. Component -1(CE): Conduction of Laboratory Exercises and Submission of Report: 50% weight
 - II. Component -2: SEE (Semester End Laboratory Examination): 50% weight
7. A minimum of overall 40% is required for a pass with 40% in SEE.
8. For courses with a combination of theory and laboratory, the details of assessment for such courses will be indicated in the respective course specifications.
9. The marks distribution for each course is given in the programme structure-section 20

10. Other flexibilities (exceptions) as per the programme regulations.

24. Attendance

A minimum of 80% attendance compulsory to appear for semester end examinations. Any condoning is as per the programme regulations.

25. Award of Class

As per the Academic Regulations for B.Tech. Programme

26. Student Support for Learning

Students are given the following support:

1. Course notes
2. Reference books in the library
3. Magazines and Journals
4. Internet facility
5. Computing facility
6. Laboratory facility
7. Workshop facility
8. Staff support
9. Lounges for discussions
10. Any other support that enhances their learning

27. Quality Control Measures

Following are the Quality Control Measures:

1. Review of course notes
2. Review of question papers and assignment questions
3. Student Feedback
4. Moderation of assessed work
5. Opportunities for the students to see their assessed work
6. Review by external examiners and external examiners reports
7. Staff Student Consultative Committee meetings
8. Student exit feedback
9. Subject Assessment Board (SAB)
10. Programme Assessment Board (PAB)

28. Curriculum Map

Course Code						Intended Learning Outcomes											
						Knowledge and Understanding				Cognitive (Thinking) Skills (Critical, Analytical,				Practical skills			
19HST	19BSC	19ESC	19CEC	19OEE	19TSH	KU1	KU2	KU3	KU4	CS1	CS2	CS3	CS4	PS1	PS2	PS3	PS4
a	b	c	d	e	f												
101A	101A	101A	201A	41XA	101B	cd	cd	cd	cd	d	d	d					
102A	102B	102A	202A	42XA	102A	cd	cd	cd	cd			d	d				
	103B	103A	203A	43XA	210B	d	d	d	d	d	d	d	d		b	d	d
	104A	104A	204A	44XA		d	d			d				c			
	105B	105A	206A			bd	bd	bd	bd				d	d	c	d	d
	106B	106A	207A			cd	cd	c	c		d	d		d			b
	207A	107A	208A			cd	cd	cd	cd	d	d	d	d		cd	d	d
	208A	108A	209A			d	d	cd	cd	d	d	d	d				
		109A	210A			d	d	d	d				d				c
		110A	211A			d	d	d	d	d	d	d	d		c		
		201A	212A			d	cd		c				d		d		
		202A	213A			d	d	d		d		d	d	d			d
			214A			d	d						d		d	d	d
			215A			d	d						d			d	d
			217A			d	d	d	d	d		d	d				
			218A			d			d	d	d		d	d		d	d
			301A			d	d	d	d	d	d	d	d				
			302A			d	d	d	d	d	d	d	d				
			303A			d	d	d	d	d	d	d	d				
			304A			d	d	d	d	d		d					
			305A			d	d	d	d				d				
			306A			d	d			d	d	d	d	d			
			307A			d	d	d	d		d	d	d			d	d
			308A			d	d						d			d	d
			309A			d	d	d	d	d	d	d	d	d	d	d	d
			310A			d	d	d		d	d		d				
			311A			d	d	d	d	d	d	d	d	d			
			312A			d	d		d				d	d			d
			317A			d	d	d	d	d	d	d	d	d	d		d
			318A			d	d	d	d	d	d	d	d	d	d		
			319A										d	d			
			320A			d	d	d	d		d	d	d			d	
			321A			d	d	d	d	d	d	d	d	d	d		
			322A			d	d	d	d	d	d	d	d	d	d		d
			323A			d	d	d	d	d	d	d	d	d	d		d
			324A			d	d	d	d	d	d	d	d				d
			406A			d	d	d	d	d	d	d	d	d	d	d	d
			CEE41XA*														
			CEE42XA*														
			CEE43XA*														
			CEE44XA*														
			P41A/42A			d	d	d	d	d	d	d	d	d	d	d	d
			P43A			d	d	d	d	d	d	d	d	d	d	d	d
4	26	30	78	12	04	Total 160 credits											

*Depends on elective Course chosen

29. Capability / Transferable Skills Map

Course						Skills									
19HST	19BSC	19ESC	19CEC	19OEE	19MCC	GK	SL	WC	OC	P	B	IM	PM	L	AO
a	b	c	d	e	f										
101A	101A	101A	201A	41XA	101B	abcdef	abcdef	abcdef	f	f	af	abcdef	abcdef	f	a
102A	102B	102A	202A	42XA	102A	abcdef	abcdef	abcdef	abcdef	a	a	abcdef	abcdef	af	af
201A	103B	103A	203A	43XA	201B	abcdef	abcdef	abcdef	b		af	abcdef	abcdef		a
301A	104A	104A	204A	44XA		abcde	abcde	abcde	c		a	abcde	abcde		a
	105B	105A	206A			bcd	bcd	bcd	cd			bcd	bcd		
	106B	106A	207A			bcd	bcd	bcd	bd			bcd	bcd		
	207A	107A	208A			bcd	bcd	bcd	d			bcd	bcd		
	208A	108A	209A			bcd	bcd	bcd	c			bcd	bcd		
		109A	210A			cd	cd	cd	c			cd	cd		
		110A	211A			cd	cd	cd	c			cd	cd		
		201A	212A			cd	cd	cd	d			cd	cd		
		202A	213A			cd	cd	cd	cd			cd	cd		
			214A			d	d	d	d			d	d		
			215A			d	d	d	d			d	d		
			217A			d	d	d		d		d	d		
			218A			d	d	d	d	d	d	d	d		
			301A			d	d	d		d		d	d		
			302A			d	d	d		d		d	d		
			303A			d	d	d		d		d	d		
			304A			d	d	d		d		d	d		
			305A			d	d	d		d		d	d		
			306A			d	d	d		d		d	d		
			307A			d	d	d	d	d	d	d	d		
			308A			d	d	d	d	d	d	d	d		
			309A			d	d	d	d	d	d	d	d	d	d
			310A			d	d	d		d		d	d		
			311A			d	d	d		d		d	d		
			312A			d	d	d		d		d	d		
			317A			d	d	d		d		d	d		
			318A			d	d	d		d		d	d		
			319A			d	d	d		d		d	d		
			320A			d	d	d		d		d	d		
			321A			d	d	d		d		d	d		
			322A			d	d	d		d		d	d		
			323A			d	d	d		d		d	d		
			324A			d	d	d	d	d	d	d	d		
			406A			d	d	d	d	d	d	d	d	d	d
			CEE41XA			d	d	d		d		d	d		
			CEE42XA			d	d	d		d		d	d		
			CEE43XA			d	d	d		d		d	d		
			CEE44XA			d	d	d		d		d	d		
			P41A/42A			d	d	d	d	d	d	d	d	d	d
			P43A			d	d	d	d	d	d	d	d	d	d

GK: Group Work; SL: Self Learning; WC: Written Communication; OC: Oral Communication P: Presentation; B: Behavioural; IM: Information Management; PM: Personal Management; L: Leadership; AO: Any Other

30. Co-curricular Activities

Students are encouraged to take part in co-curricular activities like seminars, conferences, symposium, paper writing, attending industry exhibitions, project competitions and related activities to enhance their knowledge and network.

31. Cultural and Literary Activities

To remind and ignite the creative endeavours annual cultural festivals held and the students are made to plan and organize the activities.

32. Sports and Athletics

Students are encouraged to develop a habit of taking part in outdoor and indoor games on regular basis.

