



# KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

*(An Autonomous Institute under Kakatiya University, Warangal)*

*(Approved by AICTE, New Delhi; Recognised by UGC under 2(f) & 12(B); Sponsored by EKASILA EDUCATION SOCIETY)*

Opp : Yerragattu Gutta, Hasanparthy (Mandal), WARANGAL - 506 015, Telangana, INDIA.

కాకతీయ ప్రేఘోగికి ంవ విజ్ఞాన సంస్థాన, వరంగల - 506 015

కాకతీయ సాంకేతిక విజ్ఞాన శాస్త్ర విద్యాలయం, వరంగల్ - 506 015

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## DEPARTMENT OF INFORMATION TECHNOLOGY



## KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE

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काकतीय प्रौद्योगिकी एवं विज्ञान संस्थान, वरंगल - ५०६ ०१५

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### VISION OF THE INSTITUTE

- To make our students technologically superior and ethically strong by providing quality education with the help of our dedicated faculty and staff and thus improve the quality of human life

### MISSION OF THE INSTITUTE

- To provide latest technical knowledge, analytical and practical skills, managerial competence and interactive abilities to students, so that their employability is enhanced
- To provide a strong human resource base for catering to the changing needs of the Industry and Commerce
- To inculcate a sense of brotherhood and national integrity

### DEPARTMENT OF INFORMATION TECHNOLOGY

#### VISION OF THE DEPARTMENT

- To become a Center of Excellence in the Information Technology discipline with effective teaching and strong research environment that makes our students globally competitive with strong ethical values and leadership abilities.

#### MISSION OF THE DEPARTMENT

- To impart technical knowledge to the students to turn out proficient and well groomed engineers.
- Motivate students to improve skills by attending training programs and internships that lead to develop innovative projects in emerging technologies.
- To train our students for higher education, leadership in profession and adopt quality research.

### PROGRAM EDUCATIONAL OBJECTIVES (PEOs)

#### UG - INFORMATION TECHNOLOGY

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)	The INFORMATION TECHNOLOGY graduates will be able to
PEO1:	provide students with a sound foundation in Information Technology theory and practices to analyze, formulate and solve engineering problems.
PEO2:	develop an ability to design algorithms, implement programs and deploy software.
PEO3:	develop Information Technology solutions with the changing needs of the society for the career-related activities.

<b>PROGRAM OUTCOMES (POs) &amp; PROGRAM SPECIFIC OUTCOMES (PSOs)</b>	
<b>UG – INFORMATION TECHNOLOGY</b>	
<b>PROGRAM OUTCOMES (POs)</b>	<b>At the time of graduation, the INFORMATION TECHNOLOGY graduates will be able to ...</b>
<b>PO1: Engineering knowledge</b>	<i>apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems</i>
<b>PO2: Problem analysis</b>	<i>identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences</i>
<b>PO3: Design/development of solutions</b>	<i>design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental Considerations</i>
<b>PO4: Conduct investigations of complex problems</b>	<i>use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions</i>
<b>PO5: Modern tool usage</b>	<i>create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations</i>
<b>PO6: The engineer and society</b>	<i>apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice</i>
<b>PO7: Environment and sustainability</b>	<i>understand the impact of the professional engineering solutions in societal and environmental contexts, demonstrate the knowledge of, and need for sustainable development</i>
<b>PO8: Ethics</b>	<i>apply ethical principles and commit to professional ethics, responsibilities, and norms of the engineering practice</i>
<b>PO9: Individual and team work</b>	<i>function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings</i>
<b>PO10: Communication</b>	<i>communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions</i>
<b>PO11: Project management and finance</b>	<i>demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments</i>
<b>PO12: Life-long learning</b>	<i>recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change</i>
<b>PROGRAM SPECIFIC OUTCOMES (PSOs):</b>	
<b>PSO1</b>	<i>apply analytical and experimental problem-solving skills in the Information Technology discipline.</i>
<b>PSO2</b>	<i>use fundamental knowledge to investigate new and emerging technologies leading to innovations in the field of Information Technology.</i>
<b>PSO3</b>	<i>begin immediate professional practice as an Information Technology Engineer.</i>



## **B.Tech - INFORMATION TECHNOLOGY**

### **SCHEME OF INSTRUCTIONS & EVALUTION**

**(I Semester to VIII Semester)**

**(Applicable from the Academic Year 2018-19)**



**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL - 15**  
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**SCHEME OF INSTRUCTION AND EVALUATION**  
**I-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME**

[5Th+5P+2MC]

Sl. No.	Category	Course Code	Course Title	Hours per Week			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	BSC	U18MH101	Engineering Mathematics - I	3	1	-	4	10	30	40	60	100
2	ESC	U18CS102	Programming for Problem Solving using C	3	-	-	3	10	30	40	60	100
3	BSC	U18PH103	Engineering Physics	3	1	-	4	10	30	40	60	100
4	HSMC	U18MH104	English for Communication	2	-	2	3	10	30	40	60	100
5	ESC	U18EE105	Basic Electrical Engineering	3	1	-	4	10	30	40	60	100
6	ESC	U18EE106	Basic Electrical Engineering Laboratory	-	-	2	1	40	-	40	60	100
7	ESC	U18CS107	Programming for Problem Solving using C Laboratory	-	-	2	1	40	-	40	60	100
8	BSC	U18PH108	Engineering Physics Laboratory	-	-	2	1	40	-	40	60	100
9	ESC	U18ME109	Workshop Practice	-	-	2	1	40	-	40	60	100
10	MC	U18EA110	EAA* : Sports/Yoga/NSS	-	-	2	-	100	-	-	-	100
11	MC	U18MH111	Universal Human Values-I* ( <i>Induction Programme</i> )	-	-	-	-	-	-	-	-	-
<b>Total</b>				<b>14</b>	<b>3</b>	<b>12</b>	<b>22</b>	<b>310</b>	<b>150</b>	<b>360</b>	<b>540</b>	<b>1000</b>

L= Lecture, T = Tutorials, P = Practicals & C = Credits    EAA: Extra Academic Activity

\* indicates mandatory non-credit course

Contact hours per week : 29

Total Credits : 22



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**SCHEME OF INSTRUCTION AND EVALUATION**  
**II-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME**

[5Th+2P+2MC]

Sl. No.	Course Category	Course Code	Course Title	Hours per Week			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	BSC	U18MH201	Engineering Mathematics - II	3	1	-	4	10	30	40	60	100
2	ESC	U18CS202	Data Structures through C	3	-	-	3	10	30	40	60	100
3	BSC	U18CH203	Engineering Chemistry	3	1	-	4	10	30	40	60	100
4	ESC	U18ME204	Engineering Drawing	2	-	4	4	10	30	40	60	100
5	ESC	U18CE205	Engineering Mechanics	3	1	-	4	10	30	40	60	100
6	ESC	U18CS207	Data Structures through C Laboratory	-	-	2	1	40	-	40	60	100
7	BSC	U18CH208	Engineering Chemistry Laboratory	-	-	2	1	40	-	40	60	100
8	MC	U18CH209	Environmental Studies*	2	-	-	-	10	30	40	60	100
9	MC	U18EA210	EAA* : Sports/Yoga/NSS	-	-	2	-	100	-	-	-	100
<b>Total</b>				<b>16</b>	<b>3</b>	<b>10</b>	<b>21</b>	<b>240</b>	<b>180</b>	<b>320</b>	<b>480</b>	<b>900</b>

L= Lecture, T = Tutorials, P = Practicals & C = Credits

EAA: Extra Academic Activity

\* indicates mandatory non-credit course

Contact hours per week: 29

Total Credits : 21



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**SCHEME OF INSTRUCTION AND EVALUATION**  
**III-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME**

[6Th+3P+1MC]

Sl. No.	Course Category	Course Code	Course Title	Hours per Week			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	BSC	U18MH301	Engineering Mathematics-III	3	1	-	4	10	30	40	60	100
2	HSMC	U18MH302	Professional English	-	-	2	1	100	-	100	-	100
3	PCC	U18IT303	Object Oriented Programming through C++	3	-	-	3	10	30	40	60	100
4	BSC	U18MH304	Discrete Mathematics	3	-	-	3	10	30	40	60	100
5	PCC	U18IT305	Computer Architecture and Organization	3	-	-	3	10	30	40	60	100
6	ESC	U18EC306	Switching Theory and Logic Design	3	-	-	3	10	30	40	60	100
7	PCC	U18IT307	Operating Systems	3	-	-	3	10	30	40	60	100
8	PCC	U18IT308	Object Oriented Programming through C++ Laboratory	-	-	2	1	40	-	40	60	100
9	PCC	U18IT309	Operating Systems Laboratory	-	-	2	1	40	-	40	60	100
10	MC	U18MH315	Essence of Indian Traditional Knowledge*	2	-	-	-	10	30	40	60	100
<b>Total</b>				<b>20</b>	<b>1</b>	<b>6</b>	<b>22</b>	<b>250</b>	<b>210</b>	<b>460</b>	<b>540</b>	<b>1000</b>

L= Lecture, T = Tutorials, P = Practicals & C = Credits

Contact hours per week : 27

Total Credits : 22



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**SCHEME OF INSTRUCTION AND EVALUATION**  
**IV-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME**

**[5Th+4P+1MC]**

Sl. No.	Course Category	Course Code	Course Title	Hours per Week			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	OE	U18OE401	Open Elective-II	3	1	-	4	10	30	40	60	100
2	HSMC	U18TP402	Soft and Interpersonal Skills	-	-	2	1	100	-	100	-	100
3	OE	U18OE403	Open Elective-I	3	-	-	3	10	30	40	60	100
4	PCC	U18IT404	Theory of Computation	3	-	-	3	10	30	40	60	100
5	PCC	U18IT405	Database Management Systems	3	1	-	4	10	30	40	60	100
6	PCC	U18IT406	Java Programming	3	-	-	3	10	30	40	60	100
7	PCC	U18IT407	Java Programming Laboratory	-	-	2	1	40	-	40	60	100
8	PCC	U18IT408	Database Management Systems Laboratory	-	-	2	1	40	-	40	60	100
9	OE	U18OE411	Open Elective-I based Laboratory	-	-	2	1	40	-	40	60	100
10	MC	U18CH416	Environmental Studies*	2	-	-	-	10	30	40	60	100
<b>Total</b>				<b>15/17*</b>	<b>2</b>	<b>8</b>	<b>21</b>	<b>270/280*</b>	<b>150/180*</b>	<b>420/460*</b>	<b>480/540*</b>	<b>900/1000*</b>

**L= Lecture, T = Tutorials, P = Practicals & C = Credits**

**\* indicates mandatory non-credit course for Lateral Entry Students only      Contact hours per week: 25/27\*      Total Credits : 21**

<b>Open Elective-I</b> U18OE403B: Fluid Mechanics & Hydraulic Machines (CE) U18OE403C: Mechatronics (ME) U18OE403E: Microprocessors (ECE) U18OE403F: Strength of Materials (CE)	<b>Open Elective-II</b> U18OE401A: Applicable Mathematics (M&H) U18OE401B: Basic Electronics Engineering (ECE) U18OE401C: Elements of Mechanical Engineering (ME) U18OE401D: Measurements & Instrumentation (EIE) U18OE401F: Renewable Energy Sources (EEE)	<b>Open Elective-I based Laboratory</b> U18OE411B: Fluid Mechanics & Hydraulic Machines Laboratory (CE) U18OE411C: Mechatronics Laboratory (ME) U18OE411E: Microprocessors Laboratory (ECE) U18OE411F: Strength of Materials Laboratory (CE)
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**SCHEME OF INSTRUCTION AND EVALUATION**  
**V-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME**

**[6Th+3P+1 Seminar]**

Sl. No.	Course Category	Course Code	Course Title	Hours per Week			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	HSMC	U18TP501	Quantitative Aptitude and Logical Reasoning	2	-	-	1	10	30	40	60	100
2	PE	U18IT502	Professional Elective-I/MOOCs-I	3	-	-	3	10	30	40	60	100
3	PCC	U18IT503	Design and Analysis of Algorithms	3	-	-	3	10	30	40	60	100
4	PCC	U18IT504	Web Technologies	3	-	-	3	10	30	40	60	100
5	PCC	U18IT505	Computer Networks	3	-	-	3	10	30	40	60	100
6	PCC	U18IT506	Compilers	3	-	-	3	10	30	40	60	100
7	PCC	U18IT507	Design and Analysis of Algorithms Lab	-	-	2	1	40	-	40	60	100
8	PCC	U18IT508	Web Technologies Laboratory	-	-	2	1	40	-	40	60	100
9	PCC	U18IT509	GUI Programming Laboratory	-	-	2	1	40	-	40	60	100
10	PROJ	U18IT510	Seminar	-	-	2	1	100	-	100	-	100
<b>Total:</b>				<b>17</b>	<b>-</b>	<b>8</b>	<b>20</b>	<b>280</b>	<b>180</b>	<b>460</b>	<b>540</b>	<b>1000</b>
<i>Additional Learning*: Maximum credits allowed for Honours/Minor</i>				-	-	-	7	-	-	-	-	-
<b>Total credits for Honours/Minor students:</b>				-	-	-	<b>20+7</b>	-	-	-	-	-

\* List of courses for additional learning through MOOCs towards Honours/Minor in Engineering shall be prescribed by the department under Honours/ Minor Curricula

**L= Lecture, T = Tutorials, P = Practicals & C = Credits;**

**Contact hours per week : 25**

**Professional Elective-I/ MOOCs-I:**  
 U18IT502A: Principles of Programming Languages  
 U18IT502B: Neural Networks  
 U18IT502C: Computer Graphics & Multimedia  
 U18IT502M: MOOCs- I Course



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**SCHEME OF INSTRUCTION AND EVALUATION**  
**VI-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME**

**[6Th+2P+1MC+1Mini Project]**

Sl. No.	Course Category	Course Code	Course Title	Hours per Week			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	MC	U18MH601	Universal Human Values-II	2	-	-	-	10	30	40	60	100
2	OE	U18OE602	Open Elective-III	3	-	-	3	10	30	40	60	100
3	PE	U18IT603	Professional Elective-II/MOOCs-II	3	-	-	3	10	30	40	60	100
4	PCC	U18IT604	Cryptography and Network Security	3	-	-	3	10	30	40	60	100
5	PCC	U18IT605	Artificial Intelligence	3	-	-	3	10	30	40	60	100
6	PCC	U18IT606	Data Warehousing and Data Mining	3	-	-	3	10	30	40	60	100
7	PCC	U18IT607	Software Engineering	3	-	-	3	10	30	40	60	100
8	PCC	U18IT608	Data Mining using Python Laboratory	-	-	2	1	40	-	40	60	100
9	PCC	U18IT609	Software Testing Laboratory	-	-	2	1	40	-	40	60	100
10	PROJ	U18IT610	Mini Project	-	-	2	1	100	-	100	-	100
<b>Total:</b>				<b>20</b>	<b>-</b>	<b>6</b>	<b>21</b>	<b>250</b>	<b>210</b>	<b>460</b>	<b>540</b>	<b>1000</b>
<i>Additional Learning*: Maximum credits allowed for Honours/Minor</i>				-	-	-	7	-	-	-	-	-
<b>Total credits for Honours/Minor students:</b>				-	-	-	<b>21+7</b>	-	-	-	-	-

\* List of courses for additional learning through MOOCs towards Honours/Minor in Engineering shall be prescribed by the department under Honours/ Minor Curricula

**L= Lecture, T = Tutorials, P = Practicals & C = Credits ; Contact hours per week : 26**

<b>Open Elective-III</b> U18OE602A : Disaster Management U18OE602B : Project Management U18OE602C : Professional Ethics in Engineering U18OE602D : Rural Technology and Community Development	<b>Professional Elective-II / MOOCs-II</b> U18IT603A: Distributed Computing U18IT603B: Information Retrieval Systems U18IT603C: Advanced Databases U18IT603M: MOOCs- II Course
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**SCHEME OF INSTRUCTION AND EVALUATION**  
**VII-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME**

**[4Th+2P+1MC+1 Major Project]**

Sl. No.	Course Category	Course Code	Course Title	Hours per Week			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	HSMC	U18MH701	Management, Economics & Accountancy	3	-	-	3	10	30	40	60	100
2	PE	U18IT702	Professional Elective-III/MOOCs-III	3	-	-	3	10	30	40	60	100
3	PE	U18IT703	Professional Elective-IV/MOOCs-IV	3	-	-	3	10	30	40	60	100
4	PCC	U18IT704	Internet of Things	3	-	-	3	10	30	40	60	100
5	PCC	U18IT705	Scripting Languages Laboratory	-	-	2	1	40	-	40	60	100
6	PCC	U18IT706	Modeling and Project Management Laboratory	-	-	2	1	40	-	40	60	100
7	PROJ	U18IT707	Major Project Work <i>Phase-I</i>	-	-	6	3	100	-	100	-	100
8	MC	U18IT708	Internship Evaluation	-	-	2	-	100	-	100	-	100
<b>Total:</b>				<b>12</b>	<b>-</b>	<b>12</b>	<b>17</b>	<b>320</b>	<b>120</b>	<b>440</b>	<b>360</b>	<b>800</b>
<i>Additional Learning*: Maximum credits allowed for Honours/Minor</i>				-	-	-	7	-	-	-	-	-
<b>Total credits for Honours/Minor students:</b>				-	-	-	<b>17+7</b>	-	-	-	-	-

\* List of courses for additional learning through MOOCs towards Honours/Minor in Engineering shall be prescribed by the department under Honours/Minor Curricula

**L= Lecture, T = Tutorials, P = Practicals & C = Credits ;      Contact hours per week : 24**

<b>Professional Elective-III / MOOCs-III</b> U18IT702A: Advanced Data Mining U18IT702B: Cloud Computing U18IT702C: Adhoc and Sensor Networks U18IT702M: MOOCs-III Course	<b>Professional Elective-IV / MOOCs-IV</b> U18IT703A: Machine Learning U18IT703B: Service Oriented Architecture U18IT703C: Digital Image Processing U18IT703M: MOOCs-IV Course
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**SCHEME OF INSTRUCTION AND EVALUATION**  
**VIII-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME**

**[3Th+1 Major Project]**

Sl. No.	Course Category	Course Code	Course Title	Hours per Week			Credits	Evaluation Scheme				
				L	T	P		CIE			ESE	Total Marks
								TA	MSE	Total		
1	PE	U18IT801	Professional Elective-V/MOOCs-V	3	-	-	3	10	30	40	60	100
2	PE	U18IT802	Professional Elective-VI/MOOCs-VI	3	-	-	3	10	30	40	60	100
3	OE	U18OE803	Open Elective - IV/MOOCs-VII	3	-	-	3	10	30	40	60	100
4	PROJ	U18IT804	Major Project Work <i>Phase-II</i>	-	-	14	7	40	-	40	60	100
<b>Total:</b>				<b>9</b>	<b>-</b>	<b>14</b>	<b>16</b>	<b>70</b>	<b>90</b>	<b>160</b>	<b>240</b>	<b>400</b>
<i>Additional Learning*: Maximum credits allowed for Honours/Minor</i>				-	-	-	7	-	-	-	-	-
<i>Total credits for Honours/Minor students:</i>				-	-	-	<b>16+7</b>	-	-	-	-	-

\* List of courses for additional learning through MOOCs towards Honours/Minor in Engineering shall be prescribed by the department under Honours/ Minor Curricula

**L = Lecture, T = Tutorials, P = Practicals & C = Credits;      Contact hours per week : 23**

<b>Open Elective-IV/MOOCs-VII</b> U18OE803A: Operations Research U18OE803B: Management Information Systems U18OE803C: Entrepreneurship Development U18OE803D: Forex and Foreign Trade U18OE803M: MOOCs-VII Course	<b>Professional Elective-V/MOOCs-V</b> U18IT801A: Computer Forensics U18IT801B: Big Data Analytics U18IT801C: Blockchain Technologies U18IT801M: MOOCs-V Course	<b>Professional Elective-VI / MOOCs-VI</b> U18IT802A: Data Science U18IT802B: Predictive Analytics U18IT802C: Cyber Security U18IT802M: MOOCs-VI Course
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**DEPARTMENT OF INFORMATION TECHNOLOGY**  
**KAKATIYA INSTITUTE OF TECHNOLOGY & SCIENCE, WARANGAL - 15**  
*(An Autonomous Institute under Kakatiya University, Warangal)*

**SCHEME OF INSTRUCTION AND EVALUATION**  
**I-VIII-SEMESTER OF 4-YEAR B.TECH DEGREE PROGRAMME**  
**Semester Vs Course Category Weightage**  
*(In terms of Total No. of Courses / Total No. of Credits)*

Semester	Number of Courses / Number of Credits ( <i>Course Category wise</i> )									B.Tech Programme Total	B.Tech (Honours/Minor) Programme
	BSC	ESC	HSMC	PCC	OE	PE	PROJ	MC			
I	3/9	5/10	1/3	-	-	-	-	1/0	10 / 22	<i>Additional 20 credits through 8 courses out of the list of courses prescribed under Honours/Minor curricula</i>	
II	3/9	4/12	-	-	-	-	-	2/0	9 / 21		
III	2/7	1/3	1/1	5/11	-	-	-	1/0	10 / 22		
IV	-	-	1/1	5/12	3/8	-	-	1/0	10 / 21		
V	-	-	1/1	7/15	-	1/3	1/1	-	10 / 20		
VI	-	-	-	6/14	1/3	1/3	1/1	1/0	10 / 21		
VII	-	-	1/3	3/5	-	2/6	1/3	1/0	8 / 17		
VIII	-	-	-	-	1/3	2/6	1/7	-	4 / 16		
Total	8 / 25	10 / 25	5 / 9	26 / 57	5 / 14	6 / 18	4 / 12	7 / 0	71 / 160	(71+8) / (160+20)	
% Weightage of Course Category	15.625 % (25/160)	15.625 % (25 /160)	5.625 % (9/160)	35.625 % (57/160)	8.75 % (14/160)	11.25 % (18/160)	7.5 % (12/160)	0 %	100% (160/160)	-	