| 1. | OBJECTIVE | B.Tech is a full-time four year graduation pro- syllabus contains courses on basic sciences, been evolved with an aim to produce profes in a cross-functional team and have human Being a professional programme it ensures a world. The emphasis is to develop all round person become responsible citizens of the society. | technical arts, humanit sionals who have know values. a healthy balance betwe | ies & liberal arts and p ledge not only of Engi een theoretical foundati | rofessional courses. The neering but who are good on and practical exposure | mix of these courses has I managers to contribute e to the present day |
|----|-------------------------|---|--|--|---|---|
| 2. | DURATION (IN MONTHS) | 48 (Full Time) | | | | |
| 3. | INTAKE | 180 | | | | |
| 4. | RESERVATION | I.Within the sanctioned intake | a) SC (In Percentage) | b) ST (In Percentage) | c) Differently abled (In Percentage) | d) Domicile of Nagpur (In Percentage) |
| | | | 15 | 7.5 | 3 | 25 (Includes i. Scheduled Caste (percentage) - 15 ii. Scheduled Tribes (percentage) - 7.5 iii. Differently Abled (percentage) - 3) |
| | | II.Over and above the sanctioned intake | a) Kashmiri Migrant (In Seats) | s | b) International Stud (In Percentage) | dents |
| | | | | 2 | | 15 |
| 5. | ELIGIBILITY | Passed 10+2 examination with Physics and | Mathematics as compu | lsory subjects along wi | th one of Chemistry/ Bio | technology/ Biology/ |

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| | | Technical Vocational subjects. Obtained at least 45% marks or equivalent grade (40% marks or equivalent grade for Scheduled Caste |
|----|----------------------------|--|
| | | /Scheduled Tribes) in the above subjects taken together. B. Tech (Lateral entry to second year) : |
| | | a) Passed Diploma examination from an AICTE approved Institution; with at least 45% marks or equivalent grade (40% marks or equivalent grade for Scheduled Caste /Scheduled Tribes) in appropriate branch of Engineering / Technology. b) Passed B.Sc. Degree from a recognized University as defined by UGC, with at least 45% marks or equivalent grade (40% marks or equivalent grade for Scheduled Caste /Scheduled Tribes) and passed XII standard with mathematics as a subject. c) Provided that in case of students belonging to B. Sc. Stream, shall clear the subjects of Engineering Graphics / Engineering Drawing and Engineering |
| | | Mechanics of the first year Engineering program along with the second year subjects. d) Provided further that, the students belonging to B. Sc. Stream shall be considered only after filling the supernumerary seats in this category with students belonging to the Diploma stream. |
| | | e) Provided further that students, who have passed Diploma in Engineering and Technology from an AICTE approved Institution or B. Sc. Degree from a recognized University as defined by UGC, shall also be eligible for admission to the first year Engineering Degree courses subject to vacancies in the first year class in case the vacancies at lateral entry are exhausted. However the admissions shall be based strictly on the eligibility criteria as mentioned in a, b, c, and d above. |
| | SELECTION PROCEDURE | Merit list by valid score of Joint Entrance Examination (JEE - Main) or Any State Government Engineering Entrance Examination. |
| 11 | MEDIUM OF INSTRUCTION | English |
| | PROGRAMME PATTERN | Semester |
| 0 | COURSE & SPECIALISATION | Annexure A: Bachelor of Technology (Computer Science and Engineering) Students may pursue optional 'Honours' specialization in one of the specialization areas by completing additional 20 credits in Semester: 5, 6 and 7 as specified in Annexure B for Honours. Annexure B: Optional 'Honours' specialization area 1. Artificial Intelligence and Machine learning 2. Computing |
| | | - companing |

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| | | 3.Data Science 4.Game Design and Development 5.Security and Privacy 6.Internet of Things | | | |
|------|--|---|--|---|--|
| 10. | FEE | | Academic Fee p.a | Institute Deposit | Total |
| ļ | 1 | | | 1 | 1 |
| | Indian Students | Other than Nagpur Domicile | 260000 | 20000 | 280000 |
| | | International Students (USD equivalent to INR) | 221000 | 20000 | 241000 |
| | International Stud | lents (USD equivalent to INR) | 390000 | 20000 | 410000 |
| Note | e: For additional option | al Specialisation 'Honours', an add | itional fees of Rs. 25000/- will be | charged in the second year. | • |
| 11. | ASSESSMENT | | A | n at the institute level. All external c n. The internal and external will be s | |
| 12. | STANDARD OF PASSING | corresponding to O (Outstanding). minimum Grade Point of 4 corresp | For all courses, a student is requir ponding to Grade P. Students secur | a relative performance. Maximum G ed to pass both internal and external ring less than 40% absolute marks in as achieved a minimum CGPA of 4 | l examination separately with a each head of passing will be |
| 13. | AWARD OF DEGREH DIPLOMA/ CERTIFICATE | Bachelor of Technology (Compute Science / Game Design and Devel | er Science Engineering) with Hono opment / Security and Privacy /Inte | urs in Artificial Intelligence and Ma ernet of Things, will be awarded at t ester examinations after obtaining m | he end of semester VIII |



CGPA

14. CLASSIFICATION OF CREDITS

| emester | Generic Core | Generic Elective | Specialisation Core | Specialisation Elective | Open Elective | Audit | Total |
|---------|--------------|------------------|-----------------------|----------------------------|---------------|-------|-------|
| | · | | Group | Α | | | |
| 1 | 18 | 0 | 0 | 0 | 0 | 0 | 18 |
| 2 | 21 | 0 | 0 | 0 | 0 | 1* | 21 |
| 3 | 23 | 1 | 0 | 0 | 0 | 0 | 24 |
| 4 | 17 | 2 | 0 | 0 | 0 | 1* | 19 |
| 5 | 22 | 0 | 0 | 0 | 3 | 0 | 25 |
| 6 | 14 | 8 | 0 | 0 | 3 | 0 | 25 |
| 7 | 11 | 13 | 0 | 0 | 0 | 0 | 24 |
| 8 | 14 | 0 | 0 | 0 | 0 | 0 | 14 |
| Total | 140 | 24 | 0 | 0 | 6 | 0 | 170 |
| | | | Group |) B | | | |
| 1 | 19 | 0 | 0 | 0 | 0 | 0 | 19 |
| 2 | 20 | 0 | 0 | 0 | 0 | 1* | 20 |
| 3 | 23 | 1 | 0 | 0 | 0 | 0 | 24 |
| 4 | 17 | 2 | 0 | 0 | 0 | 1* | 19 |
| 5 | 22 | 0 | 0 | 0 | 3 | 0 | 25 |
| 6 | 14 | 8 | 0 | 0 | 3 | 0 | 25 |
| 7 | 11 | 13 | 0 | 0 | 0 | 0 | 24 |
| 8 | 14 | 0 | 0 | 0 | 0 | 0 | 14 |
| Total | 140 | 24 | 0 | 0 | 6 | 0 | 170 |
| | | | Optional Additional C | Courses (Honours) | · | | |
| Total | 0 | 0 | 20 | 0 | 0 | 0 | 20 |

* Satisfactory completion of the non letter grade course 'Integrated Disaster Management', 'Fitness for Life' is mandatory for the award of degree.

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Note: For additional Specialisations (optional) as applicable, fees of Rs.25000/- will be charged, additionally in the third year

The revised programme structure supersedes the previously approved programme structure dated 25/08/2024 for the programme.

This Programme Structure is aligned with the norms laid down by the University and is approved by the Academic Council. Hereafter changes (if any) which conform to the policy on "Curriculum Development and Review" would be permissible, subject to revision of the Programme Structure, following the specified processes.

Director - Academics

THIS IS SYSTEM GENERATED DOCUMENT AND REQUIRES NO SIGNATURE.



| | | | | Ашслигса | | | | | | | | | |
|----------------|------------|---|---------|-----------------------|--------|-----------------------|---------|------|--------|----------------------|------|---------|-------|
| Catalog | Course | | | Specialisation/ Area/ | | ichir hem urs F | e | E | | nation Sc (Marks) | heme | - Total | |
| Course Code | Code | Course Title | Nature | Department | | eek) | | Prac | ctical | The | ory | Credits | Total |
| Code | | | | | L | т | La b | СА | ESE | СА | ESE | | |
| | | | : | Semester : 1 | | | | | | | | | |
| | | Gr | oup - A | Generic Core Courses | | | | | | - | | | |
| TE7168 | 0705210101 | Engineering Mathematics -I | BS | | 3 | 1 | 0 | 0 | 0 | 40 | 60 | 4 | 100 |
| T7391 | 0705210102 | | BS | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7392 | 0705210103 | Physics lab | BS | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| T7383 | 0705210104 | Communication Skills | HS | | 2 | 0 | 0 | 0 | 0 | 20 | 30 | 2 | 50 |
| T7384 | 0705210105 | Communication skills lab | HS | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| TE7288 | 0705210106 | Programming in C | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7289 | 0705210107 | Programming in C Lab | PC | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| TE7188 | 0705210108 | Environmental Science | ES | | 2 | 0 | 0 | 0 | 0 | 20 | 30 | 2 | 50 |
| T6773 | 0705210109 | Creative Thinking | HS | | 1 | 0 | 0 | 0 | 0 | 25 | 0 | 1 | 25 |
| | | | | Total Requir | red Cr | edits | 5 | 30 | 45 | 165 | 210 | 18 | 450 |
| | | Gr | oup - B | Generic Core Courses | | | | | | | | | |
| TE7168 | 0705210101 | Engineering Mathematics -I | BS | | 3 | 1 | 0 | 0 | 0 | 40 | 60 | 4 | 100 |
| T7381 | 0705210110 | | BS | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7382 | | Chemistry Lab | BS | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| T7540 | 0705210112 | Basic Electrical and Electronics Engineering | ES | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7593 | | Basic Electrical and Electronics Engineering Lab | ES | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |

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Annexure A



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| Catalog | Course | | | Specialisation/ Area/ | Sc | achin hem urs F | e | E | | ation Sc (Marks) | heme | - Total | |
|----------------|------------|--|----------|-----------------------|--------|-----------------------|---------|------|--------|---------------------|------|---------|-------|
| Course Code | Code | Course Title | Nature | Department | • | leek) | | Prac | ctical | The | ory | Credits | Total |
| Code | | | | | L | т | La b | СА | ESE | СА | ESE | | |
| TE7286 | 0705210114 | Programming and Problem Solving | ES | | 2 | 0 | 0 | 0 | 0 | 20 | 30 | 2 | 50 |
| TE7287 | 0705210115 | Programming and Problem Solving Lab | ES | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| T6732 | 0705210116 | Critical Thinking | HS | | 1 | 0 | 0 | 0 | 0 | 25 | 0 | 1 | 25 |
| T7925 | | Engineering Graphics Lab | ES | | 0 | 0 | 4 | 20 | 30 | 0 | 0 | 2 | 50 |
| TE7396 | 0705210118 | Software Tools | ES | | 0 | 0 | 2 | 25 | 0 | 0 | 0 | 1 | 25 |
| | | | | Total Requir | red Cr | edits | \$ | 75 | 75 | 145 | 180 | 19 | 475 |
| | | | 9 | Semester : 2 | | | | | | | | | |
| | | G | roup-A (| Generic Core Courses | | | | | | | | | |
| TE7169 | | Engineering Mathematics -II | BS | | 3 | 1 | 0 | 0 | 0 | 40 | 60 | 4 | 100 |
| T7381 | 0705210202 | | BS | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7382 | 0705210203 | Chemistry Lab | BS | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| T7540 | 0705210204 | Basic Electrical and Electronics Engineering | ES | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7593 | 0705210205 | Basic Electrical and Electronics Engineering Lab | ES | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| TE7286 | 0705210206 | Programming and Problem Solving | ES | | 2 | 0 | 0 | 0 | 0 | 20 | 30 | 2 | 50 |
| TE7287 | 0705210207 | Programming and Problem Solving Lab | ES | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| T7925 | 0705210208 | Engineering Graphics Lab | ES | | 0 | 0 | 4 | 20 | 30 | 0 | 0 | 2 | 50 |
| T6732 | 0705210209 | Critical Thinking | HS | | 1 | 0 | 0 | 0 | 0 | 25 | 0 | 1 | 25 |
| TE7396 | 0705210210 | Software Tools | ES | | 0 | 0 | 2 | 25 | 0 | 0 | 0 | 1 | 25 |

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| | | | | AIIIIexure A | | | | | | | | | |
|----------------|------------|-----------------------------|------------|-----------------------|--------|----------------------|---------|------|--------|----------------------|------|--------------------------|-------|
| Catalog | Course | | | Specialisation/ Area/ | | chir hem urs F | e | E | | nation Sc (Marks) | heme | - Total | |
| Course Code | Code | Course Title | Nature | Department | `w | eek) | | Prac | ctical | The | ory | Credits | Total |
| Code | | | | | L | т | La b | СА | ESE | СА | ESE | | |
| TE7300 | 0705210211 | Tinker Lab | ES | | 0 | 0 | 4 | 50 | 0 | 0 | 0 | 2 | 50 |
| TH4095 | 0705210212 | Fitness for Life * | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Non - Letter Grade | 0 |
| | | | | Total Requir | red Cr | edits | 5 | 125 | 75 | 145 | 180 | 21 | 525 |
| | | | Group- B C | Generic Core Courses | | | | | | | | | |
| TE7169 | 0705210201 | Engineering Mathematics -II | BS | | 3 | 1 | 0 | 0 | 0 | 40 | 60 | 4 | 100 |
| TE7300 | 0705210211 | | ES | | 0 | 0 | 4 | 50 | 0 | 0 | 0 | 2 | 50 |
| T7391 | 0705210213 | Physics | BS | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7392 | 0705210214 | Physics lab | BS | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| TE7288 | 0705210215 | Programming in C | ES | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7289 | 0705210216 | Programming in C Lab | PC | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| T7383 | 0705210217 | Communication Skills | HS | | 2 | 0 | 0 | 0 | 0 | 20 | 30 | 2 | 50 |
| T7384 | 0705210218 | Communication skills lab | HS | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| T6773 | 0705210219 | Creative Thinking | HS | | 1 | 0 | 0 | 0 | 0 | 25 | 0 | 1 | 25 |
| TE7188 | 0705210220 | Environmental Science | ES | | 2 | 0 | 0 | 0 | 0 | 20 | 30 | 2 | 50 |
| TH4095 | 0705210212 | Fitness for Life * | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Non - Letter Grade | 0 |
| | | | | Total Requir | red Cr | edits | 6 | 80 | 45 | 165 | 210 | 20 | 500 |

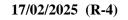
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| Catalog | Course | | | Specialisation/ Area/ | | chir hem urs F | e | E | | nation Sc (Marks) | heme | Total | |
|----------------|------------|---|----------|-----------------------|--------|----------------------|---------|------|--------|----------------------|------|---------|-------|
| Course Code | Code | Course Title | Nature | Department | ` w | eek) | | Prac | ctical | The | eory | Credits | Total |
| Code | | | | | L | т | La b | СА | ESE | СА | ESE | | |
| | | | | Semester : 3 | | | | | | | | | |
| | | | Gene | ric Core Courses | | | - | | - | | | | |
| T7995 | 0705210301 | Discrete Mathematics and Probability Theory | BS | | 3 | 1 | 0 | 0 | 0 | 40 | 60 | 4 | 100 |
| T7996 | 0705210302 | Computer Organization | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7906 | 0705210303 | Fundamentals of Data Structures | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7257 | | Fundamentals of Data Structures Lab | PC | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| T7512 | | Programming Paradigms | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7513 | 0705210306 | Programming Paradigms Lab | PC | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| T7997 | 0705210307 | Digital Electronics and Logic Design | ES | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7555 | | Digital Electronics and Logic Design Lab | ES | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| T2646 | | Entrepreneurship Venture | HS | | 1 | 0 | 0 | 0 | 0 | 25 | 0 | 1 | 25 |
| F7010 | 0705210310 | Agile Software Development | PC | | 3 | 0 | 0 | 0 | 0 | 75 | 0 | 3 | 75 |
| | | | | Total | 19 | 1 | 6 | 30 | 45 | 260 | 240 | 23 | 575 |
| | | Ge | eneric E | ective Courses Group | | | | | | | | | |
| T6761 | 0705210311 | Foundation of Ethics | GE | | 1 | 0 | 0 | 0 | 0 | 25 | 0 | 1 | 25 |
| T6760 | 0705210312 | Introduction to Indian Philosophy | GE | | 1 | 0 | 0 | 0 | 0 | 25 | 0 | 1 | 25 |
| | | | | Total Requi | red Cr | edits | 5 | 0 | 0 | 25 | 0 | 1 | 25 |
| | | | | Semester : 4 | | | | | | | | | |
| | | | Gene | ric Core Courses | | | | | | | | | |

Annexure A

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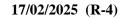


| Catalog | Course | | | Specialisation/ Area/ | | ichir hem urs F | e | E | | nation Sc (Marks) | heme | - Total | |
|----------------|------------|--|------------|-----------------------|-------|-----------------------|---------|------|--------|----------------------|------|--------------------------|-------|
| Course Code | Code | Course Title | Nature | Department | | eek) | | Prac | ctical | The | ory | Credits | Total |
| Code | | | | | L | т | La b | СА | ESE | СА | ESE | | |
| TE7170 | 0705210401 | Engineering Mathematics-III | BS | | 2 | 1 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7999 | 0705210402 | Java Programming | PC | | 4 | 0 | 0 | 0 | 0 | 100 | 0 | 4 | 100 |
| T7488 | 0705210403 | Data Structures | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7489 | 0705210404 | Data Structures Lab | PC | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| T7510 | 0705210405 | Operating Systems | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7511 | 0705210406 | Operating Systems Lab | PC | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| TE7290 | 0705210407 | Project Based Learning -I | PIS | | 0 | 0 | 4 | 50 | 0 | 0 | 0 | 2 | 50 |
| T4005 | 0705210408 | Integrated Disaster Management * | 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | Non - Letter Grade | 0 |
| | | | | Total | 12 | 1 | 8 | 70 | 30 | 190 | 135 | 17 | 425 |
| | | | Generic El | ective Courses Group | | | | | | | | | |
| T6014 | 0705210409 | Basic French I | GE | | 2 | 0 | 0 | 0 | 0 | 50 | 0 | 2 | 50 |
| T6012 | 0705210410 | Basic German I | GE | | 2 | 0 | 0 | 0 | 0 | 50 | 0 | 2 | 50 |
| T6016 | 0705210411 | Basic Spanish I | GE | | 2 | 0 | 0 | 0 | 0 | 50 | 0 | 2 | 50 |
| | | | | Total Requir | ed Cr | edit | S | 0 | 0 | 50 | 0 | 2 | 50 |
| | | | | Semester : 5 | | | | | | | | | |
| | • | | | ric Core Courses | | | | | 1 | | | | |
| F7046 | 0705210501 | Introduction to Full Stack Development | PC | | 4 | 0 | 0 | 0 | 0 | 100 | 0 | 4 | 100 |

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| Catalog | Course | | | Specialisation/ Area/ | Sc | achir hem urs F | e | E | | nation Sc (Marks) | heme | - Total | |
|----------------|------------|---|----------|-------------------------------------|--------|-----------------------|---------|------|--------|----------------------|------|---------|-------|
| Course Code | Code | Course Title | Nature | Department | • | leek) | | Prac | ctical | The | eory | Credits | Total |
| Code | | | | | L | т | La b | СА | ESE | СА | ESE | | |
| T8000 | 0705210502 | Service Learning | HS | | 0 | 0 | 8 | 100 | 0 | 0 | 0 | 4 | 100 |
| T7908 | 0705210503 | Computer Networks | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7482 | 0705210504 | Computer Networks Lab | PC | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| T7907 | 0705210505 | Database Management Systems | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7487 | 0705210506 | Data Base Management Systems Lab | PC | | 0 | 0 | 4 | 20 | 30 | 0 | 0 | 2 | 50 |
| TE7299 | 0705210507 | Theory of Computation | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T6774 | 0705210508 | Principles of Economics | HS | | 2 | 0 | 0 | 0 | 0 | 50 | 0 | 2 | 50 |
| | | | | Total | 15 | 0 | 14 | 130 | 45 | 240 | 135 | 22 | 550 |
| | | | Open Ele | ective Courses Group | | | | | | | | | |
| T7393 | 0705210509 | Computer Based Statistical Packages | OE | Computer Science and Engineering | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7499 | 0705210510 | Java | OE | Computer Science and Engineering | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7263 | 0705210511 | Introduction to AI and Machine Learning | OE | Computer Science and Engineering | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7265 | 0705210512 | Introduction to Data Science | OE | Computer Science and Engineering | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Total Requi | red Cr | edite | 5 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Semester : 6 | | | | | | | | | |
| | | | Gene | eric Core Courses | | | | | | | | | |





| | | | | Ашихин с | | | | | | | | | |
|----------------|------------|--|------------|--------------------------|--------|-----------------------|---------|------|--------|---------------------|------|---------|-------|
| Catalog | Course | | | Specialisation/ Area/ | | ichir hem urs F | e | E | | ation Sc (Marks) | heme | - Total | |
| Course Code | Code | Course Title | Nature | Department | • | eek) | | Prac | ctical | The | ory | Credits | Total |
| Code | | | | | L | т | La b | СА | ESE | CA | ESE | | |
| TE7008 | 0705210601 | Distributed Systems and Resource Management | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| F7096 | 0705210602 | ServiceNow | PC | | 3 | 0 | 0 | 0 | 0 | 75 | 0 | 3 | 75 |
| T6749 | 0705210603 | Design Thinking | HS | | 2 | 0 | 0 | 0 | 0 | 50 | 0 | 2 | 50 |
| T7674 | | Cyber Security | PC | | 2 | 0 | 0 | 0 | 0 | 50 | 0 | 2 | 50 |
| TE7291 | 0705210605 | Project Based Learning-II | PIS | | 0 | 0 | 4 | 50 | 0 | 0 | 0 | 2 | 50 |
| T7802 | | Capstone Course | PC | | 2 | 0 | 0 | 0 | 0 | 50 | 0 | 2 | 50 |
| | | | | Total | 12 | 0 | 4 | 50 | 0 | 255 | 45 | 14 | 350 |
| | | G | eneric Ele | ective Courses Group- I | | | - | | · | | - | - | |
| TE7255 | 0705210607 | Data Warehousing and Mining | PE | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7101 | | Internet of Things | PE | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7328 | 0705210609 | Image Processing | PE | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Total Requir | red Cr | edits | 5 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | G | eneric Ele | ctive Courses Group- II | | | | | | | | | |
| TE7013 | 0705210610 | Data Warehousing and Mining Lab | PE | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| T7528 | | Internet of Things Lab | PE | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| TE7329 | 0705210612 | Image Processing Lab | PE | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| | | | | Total Requir | red Cr | edits | 5 | 10 | 15 | 0 | 0 | 1 | 25 |
| | | G | eneric Ele | ctive Courses Group- III | | | | | | | | - | |
| | | | - | | | | | | | | | | |

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| Catalog | Course | | | Specialisation/ Area/ | | ichir hem urs F | e | E | | nation Sc (Marks) | heme | - Total | |
|----------------|------------|------------------------------|-----------|-------------------------------------|--------|-----------------------|---------|------|--------|----------------------|------|---------|-------|
| Course Code | Code | Course Title | Nature | Department | ` W | eek) |) | Prac | ctical | The | ory | Credits | Total |
| oouc | | | | | L | т | La b | СА | ESE | СА | ESE | | |
| T7473 | 0705210613 | Artificial Intelligence | PE | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7259 | 0705210614 | Human Computer Interface | PE | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7243 | 0705210615 | Advanced Algorithms | PE | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Total Requi | red Cr | edits | 5 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | Ge | neric Ele | ctive Courses Group- IV | | | | | | | | | |
| TE7014 | 0705210616 | Artificial Intelligence Lab | PE | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| TE7260 | 0705210617 | Human Computer Interface Lab | PE | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| TE7244 | 0705210618 | Advanced Algorithms Lab | PE | | 0 | 0 | 2 | 0 | 0 | 10 | 15 | 1 | 25 |
| | | | | Total Requi | red Cr | edits | 5 | 10 | 15 | 0 | 0 | 1 | 25 |
| | | | Open Ele | ective Courses Group | | | | | | | | | |
| T7474 | 0705210619 | Basics of Database | OE | Computer Science and Engineering | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7529 | 0705210620 | Machine Learning | OE | Computer Science and Engineering | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7509 | 0705210621 | Open Source Technologies | OE | Computer Science and Engineering | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7264 | 0705210622 | Introduction to BIGDATA | OE | Computer Science and Engineering | 3 | 0 | 0 | 0 | 0 | 75 | 0 | 3 | 75 |
| | | | | Total Requi | red Cr | edits | 5 | 0 | 0 | 30 | 45 | 3 | 75 |

17/02/2025 (R-4)

Annexure A



SIU

| | | | | Annexure A | | | | | | | | | |
|----------------------------|------------------------------------|--|------------|--|----------------------------------|-------|---------|----------------------|-------|------------|------------|-----------|--------|
| Catalog | Course | | | Specialisation/ Area/ | Teaching Scheme (Hours Per | E | | nation Sc (Marks) | heme | - Total | | | |
| Course Code | Code | Course Title | Nature | Department | • | | Prac | ctical | The | eory | Credits | Total | |
| oout | | | | | L | т | La b | СА | ESE | СА | ESE | | |
| | | | | GIP | • | | | • | | | | | |
| G7008 | 0705210623 | Global Immersion Programme | | | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 8 | 200 |
| Note: For st (070521060 | tudents under (05),"Capstone (| Global Immersion Programme (0705210623), Course" (0705210606) will be waived off. | | "Design Thinking" (0705210603) Semester : 7 | ,"Cybe | r Se | curit | y" (07 | 05210 |)604),"Pro | oject Base | ed Learni | ng-II" |
| | | | | eric Core Courses | | | | | | | | | |
| T7804 | 0705210701 | Project | PIS | | 0 | 0 | 8 | 40 | 60 | 0 | 0 | 4 | 100 |
| T7477 | 0705210702 | Compiler Construction | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7478 | 0705210703 | Compiler Construction Lab | PC | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| F0003 | 0705210704 | Flexi-Credit Course | PC | | 3 | 0 | 0 | 0 | 0 | 75 | 0 | 3 | 75 |
| | | | | Total | 6 | 0 | 10 | 50 | 75 | 105 | 45 | 11 | 275 |
| | | Ge | eneric Ele | ective Courses Group- I | | | | | | | | | |
| T2585 | 0705210705 | Organizational Behaviour | GE | | 2 | 0 | 0 | 0 | 0 | 50 | 0 | 2 | 50 |
| TE7438 | 0705210706 | History of Science and Technology | GE | | 2 | 0 | 0 | 0 | 0 | 50 | 0 | 2 | 50 |
| | | | | Total Requi | red Cr | edits | 5 | 0 | 0 | 50 | 0 | 2 | 50 |
| | | Ge | neric Ele | ective Courses Group- II | | | | | | | | | |
| TE7253 | | Data Science | PE | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7282 | 0705210708 | Optimization Techniques and Algorithms | PE | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7097 | 0705210709 | Neural Network | PE | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |



| | | | | Annexure A | | | | | | | | | |
|----------------|------------|--|-----------|--------------------------|-------|-----------------------|---------|------|-------|---------------------|------|---------|-------|
| Catalog | Course | | | Specialisation/ Area/ | | ichir hem urs F | e | E | | ation Sc (Marks) | heme | - Total | |
| Course Code | Code | Course Title | Nature | Department | Week) | | | Prac | tical | Theory | | Credits | Total |
| oouc | | | | | L | т | La b | СА | ESE | СА | ESE | | |
| | | | | Total Requir | ed Cr | edits | \$ | 0 | 0 | 30 | 45 | 3 | 75 |
| | | Gei | neric Ele | ctive Courses Group- III | | | | | | | - | _ | |
| TE7254 | 0705210710 | Data Science Lab | PE | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| TE7283 | 0705210711 | Optimization Techniques and Algorithms Lab | PE | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| TE7112 | 0705210712 | Neural Networks Lab | PE | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| | | | | Total Requir | ed Cr | edits | \$ | 10 | 15 | 0 | 0 | 1 | 25 |
| | | Ger | neric Ele | ctive Courses Group- IV | | | | | | | | | |
| T7529 | 0705210713 | Machine Learning | PE | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7138 | | Network Security | PE | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7103 | 0705210715 | Natural Language Processing | PE | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Total Requir | ed Cr | edits | 5 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | Ge | neric Ele | ctive Courses Group- V | | | | | | | | | |
| TE7105 | 0705210716 | Machine Learning Lab | PE | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| T7506 | | Network Security Lab | PE | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| TE7106 | 0705210718 | Natural Language Processing Lab | PE | | 0 | 0 | 2 | 10 | 15 | 0 | 0 | 1 | 25 |
| | | | | Total Requir | ed Cr | edite | 5 | 10 | 15 | 0 | 0 | 1 | 25 |
| | | Ger | neric Ele | ctive Courses Group- VI | | | | | • | - | - | - | - |
| TE7251 | 0705210719 | Computer Graphics | PE | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |



| | | | | Annexure A | | | | | | | | | |
|----------------|------------|------------------------|--------|-----------------------|-------|-----------------------|------------|------|-------|-----|-----|---------|-------|
| Catalog | Course | | | Specialisation/ Area/ | Sc | achir hem urs F | ne (Marks) | | Total | | | | |
| Course Code | Code | Course Title | Nature | Department | | /eek) | | Prac | tical | The | ory | Credits | Total |
| Code | | | | | L | т | La b | СА | ESE | СА | ESE | | |
| TE7297 | 0705210720 | Software Testing Tools | PE | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| T7476 | 0705210721 | Cloud Computing | PE | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Total Requir | ed Cr | edite | 5 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | ļ | Semester : 8 | | | | | | | | | |
| | | | Gene | ric Core Courses | | | | | | | | | |
| T7912 | 0705210801 | Internship | PIS | | 0 | 0 | 24 | 120 | 180 | 0 | 0 | 12 | 300 |
| T7802 | 0705210802 | Seminar | PIS | | 0 | 0 | 4 | 50 | 0 | 0 | 0 | 2 | 50 |
| | | | | Total | 0 | 0 | 28 | 170 | 180 | 0 | 0 | 14 | 350 |



Annexure A

Abbreviations (Nature)

- BS Basic Sciences
- ES Engineering Sciences
- HS Humanities and Social Sciences
- OE Open Electives
- PC Professional Core
- PE Professional Elective
- PIS Project, Internship, Seminar
- PD Professional Development Course
- MC Mandatory Course
- L Lecture
- T Tutorial
- CA Continuous Assessment
- ESE End Semester Examination
- GE Generic Elective



| Semester | Internal Credits | External Credits | Total Credits | Total Marks |
|------------|------------------|------------------|---------------|-------------|
| | | Group A | | |
| Semester 1 | 1 | 17 | 18 | 450 |
| Semester 2 | 4 | 17 | 21 | 525 |
| Semester 3 | 5 | 19 | 24 | 600 |
| Semester 4 | 8 | 11 | 19 | 475 |
| Semester 5 | 10 | 15 | 25 | 625 |
| Semester 6 | 14 | 11 | 25 | 625 |
| Semester 7 | 5 | 19 | 24 | 600 |
| Semester 8 | 2 | 12 | 14 | 350 |
| Total | 49 | 121 | 170 | 4250 |
| | | Group B | | |
| Semester 1 | 2 | 17 | 19 | 475 |
| Semester 2 | 3 | 17 | 20 | 500 |
| Semester 3 | 5 | 19 | 24 | 600 |
| Semester 4 | 8 | 11 | 19 | 475 |
| Semester 5 | 10 | 15 | 25 | 625 |
| Semester 6 | 11 | 14 | 25 | 625 |
| Semester 7 | 5 | 19 | 24 | 600 |
| Semester 8 | 2 | 12 | 14 | 350 |
| Total | 46 | 124 | 170 | 4250 |



| Annexure B | |
|--|--|
| Optional 'Honours' Specialization | |

| | r | r | | nai monours specializa | | | | r | | | | r | , |
|----------------|------------|------------------------------------|--------|---|----|-----------------------|---------|--|-------|------|---------|---------|-------|
| Catalog | Course | | | Specialisation/ Area/ | Sc | achir hem urs F | e | Examination Scher (Marks) Practical Theory | | heme | - Total | | |
| Course Code | Code | Course Title | Nature | Department | • | leek) | | Prac | tical | The | ory | Credits | Total |
| | | | | | L | т | La b | СА | ESE | СА | ESE | | |
| | | | ę | Semester : 5 | | | | | | | | | |
| | | Artific | | ence and Machine Learning ation Core Courses | | | | | | | | | |
| TE7273 | 0705210513 | Machine Learning: Classification | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7274 | 0705210514 | Machine Learning: Regression | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Total | 6 | 0 | 0 | 0 | 0 | 60 | 90 | 6 | 150 |
| | | | 5 | Semester : 5 | | | | | | | | | |
| | | | | Computing ation Core Courses | | | | | | | | | |
| T7476 | 0705210515 | Cloud Computing | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7250 | 0705210516 | Cloud Environment in Public Model | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Total | 6 | 0 | 0 | 0 | 0 | 60 | 90 | 6 | 150 |
| | | | 5 | Semester : 5 | | | | | | | | | |
| | | | | oata Science Sation Core Courses | | | | | | | | | |
| TE7292 | 0705210517 | R Programming | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | Open Source Tools for Data Science | PC | | 4 | 0 | 0 | 0 | 0 | 40 | 60 | 4 | 100 |
| | | | | Total | 7 | 0 | 0 | 0 | 0 | 70 | 105 | 7 | 175 |



| Annexure B |
|--|
| Optional 'Honours' Specialization |

| Catalog | Course | | | Specialisation/ Area/ | Tea Sc | Teaching Scheme (Hours Per | | E | | nation Sc (Marks) | heme | - Total | Tatal |
|----------------|------------|----------------------------------|--------|--|-----------|----------------------------------|---------|------|--------|----------------------|------|---------|-------|
| Course Code | Code | Course Title | Nature | Department | . N | leek) |) | Prac | ctical | The | ory | Credits | Total |
| Code | | | | | L | т | La b | СА | ESE | СА | ESE |] | |
| | | | S | emester : 5 | | | | | | | | | |
| | | | | gn and Development ation Core Courses | | | | - | | - | - | | |
| TE7267 | 0705210519 | Introduction to Game Development | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7285 | 0705210520 | Principles of Game Design | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Total | 6 | 0 | 0 | 0 | 0 | 60 | 90 | 6 | 150 |
| | | | S | emester : 5 | | | | | | | | | |
| | | | | rnet of Things ation Core Courses | | | | | | | | | |
| TE7268 | 0705210521 | Introduction to IOT | PC | | 4 | 0 | 0 | 0 | 0 | 40 | 60 | 4 | 100 |
| TE7293 | 0705210522 | Raspberry Pi and Python | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Total | 7 | 0 | 0 | 0 | 0 | 70 | 105 | 7 | 175 |
| | | | S | emester : 5 | | | | | | | | | |
| | | | | rity and Privacy ation Core Courses | | | | | | | | | |
| TE7301 | 0705210523 | Usable Security | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7296 | 0705210524 | Software Security | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Total | 6 | 0 | 0 | 0 | 0 | 60 | 90 | 6 | 150 |



| Annexure B | |
|--|--|
| Optional 'Honours' Specialization | |

| | 1 | Ť | | mai monours specializa | | | | r | | | | r | , |
|----------------|------------|---|--------|--|----|----------------------------------|---------|------|--------|----------------------|------|---------|-------|
| Catalog | Course | | | Specialisation/ Area/ | Sc | Teaching Scheme (Hours Per | | E | | nation Sc (Marks) | heme | – Total | |
| Course Code | Code | Course Title | Nature | Department | • | • | | Prac | ctical | The | ory | Credits | Total |
| Code | | | | | L | т | La b | СА | ESE | СА | ESE |] | |
| | | | | Semester : 6 | | | | | | | | | |
| | | Artifici | | ence and Machine Learning sation Core Courses | | | | | | | | | |
| TE7266 | 0705210623 | Introduction to Deep Learning | PC | | 4 | 0 | 0 | 0 | 0 | 40 | 60 | 4 | 100 |
| TE7271 | 0705210624 | Machine Learning Clustering and Retrieval | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Total | 7 | 0 | 0 | 0 | 0 | 70 | 105 | 7 | 175 |
| | | | ę | Semester : 6 | | | | | | | | | |
| | | | | Computing sation Core Courses | | | | | | | | | |
| TE7246 | 0705210625 | Block Chain | PC | | 4 | 0 | 0 | 0 | 0 | 40 | 60 | 4 | 100 |
| TE7249 | 0705210626 | Cloud Computing Platforms | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Total | 7 | 0 | 0 | 0 | 0 | 70 | 105 | 7 | 175 |
| | | | ę | Semester : 6 | | | | | | | | | |
| | | | | Data Science Sation Core Courses | | | | | | | | | |
| T2228 | 0705210627 | Business Analytics | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7284 | 0705210628 | Power BI | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Total | 6 | 0 | 0 | 0 | 0 | 60 | 90 | 6 | 150 |



| Annexure B |
|--|
| Optional 'Honours' Specialization |

| Catalog | Course | | | Specialisation/ Area/ | Tea Sc | Teaching Scheme (Hours Per | | Examination Scheme (Marks) | | | | – Total | Total |
|----------------|------------|--------------------------------------|--------|--|-------------|----------------------------------|-----|-------------------------------|--------|-----|-------------|---------|-------|
| Course Code | Code | Course Title | Nature | Department | Ň | /eek) |) | Prac | ctical | The | eory Credit | | |
| Code | | | | | L T La b | СА | ESE | СА | ESE | | | | |
| | | | ç | Semester : 6 | | | | | | | | | |
| | | | | ign and Development sation Core Courses | | | | | | | | | |
| TE7275 | 0705210629 | Modern Platforms in Game Development | PC | | 4 | 0 | 0 | 0 | 0 | 40 | 60 | 4 | 100 |
| TE7256 | 0705210630 | Enterpreneurship in Game Development | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Total | 7 | 0 | 0 | 0 | 0 | 70 | 105 | 7 | 175 |
| | | | ę | Semester : 6 | | | | | | | - | | |
| | | | | ernet of Things sation Core Courses | | | | | | | | | |
| TE7269 | 0705210631 | IOT Security and Privacy | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| TE7295 | 0705210632 | Software Defined Networking | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Total | 6 | 0 | 0 | 0 | 0 | 60 | 90 | 6 | 150 |
| | | | 5 | Semester : 6 | | | | | | | | | |
| | | | | rity and Privacy sation Core Courses | | | | | | | | | |
| TE7252 | 0705210633 | Cryptography | PC | | 4 | 0 | 0 | 0 | 0 | 40 | 60 | 4 | 100 |
| TE7258 | 0705210634 | Hardware Security | PC | | 3 | 0 | 0 | 0 | 0 | 30 | 45 | 3 | 75 |
| | | | | Total | 7 | 0 | 0 | 0 | 0 | 70 | 105 | 7 | 175 |



| Annexure B | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| Optional 'Honours' Specialization | | | | | | | | |

| | , | C | | nai monours specializa | | | | | | | | r | , |
|---|--------------|--------------|--------|----------------------------------|-------|----------------------------------|---------|-----------|-------------------------------|--------|-----|------------------|-------|
| Catalog | | Course Title | | Specialisation/ Area/ | | Teaching Scheme (Hours Per | | | Examination Scheme (Marks) | | | | |
| Course Code | | | Nature | Nature Department | Week) | | | Practical | | Theory | | Total Credits | Total |
| | | | | | L | т | La b | СА | ESE | СА | ESE | | |
| | Semester : 7 | | | | | | | | | | | | |
| Artificial Intelligence and Machine Learning Specialisation Core Courses | | | | | | | | | | | | | |
| T7805 | 0705210722 | Project | PIS | | 0 | 0 | 10 | 50 | 75 | 0 | 0 | 5 | 125 |
| T7802 | 0705210723 | Seminar | PIS | | 0 | 0 | 4 | 20 | 30 | 0 | 0 | 2 | 50 |
| | | | | Total | 0 | 0 | 14 | 70 | 105 | 0 | 0 | 7 | 175 |
| | | | ç | Semester : 7 | | | | | | | | | |
| | | | | Computing sation Core Courses | | | | | | | | | |
| T7805 | 0705210722 | Project | PIS | | 0 | 0 | 10 | 50 | 75 | 0 | 0 | 5 | 125 |
| T7802 | 0705210723 | Seminar | PIS | | 0 | 0 | 4 | 20 | 30 | 0 | 0 | 2 | 50 |
| | | | | Total | 0 | 0 | 14 | 70 | 105 | 0 | 0 | 7 | 175 |
| Semester : 7 | | | | | | | | | | | | | |
| Data Science Specialisation Core Courses | | | | | | | | | | | | | |
| T7805 | 0705210722 | Project | PIS | | 0 | 0 | 10 | 50 | 75 | 0 | 0 | 5 | 125 |
| | 0705210723 | | PIS | | 0 | 0 | 4 | 20 | 30 | 0 | 0 | 2 | 50 |
| | | | | Total | 0 | 0 | 14 | 70 | 105 | 0 | 0 | 7 | 175 |



Annexure B Optional 'Honours' Specialization

| Catalog | e Code | Course Title | | Specialisation/ Area/ | | Teaching Scheme (Hours Per | | | Examination Scheme (Marks) | | | | |
|---|--------------|--------------|--------|--|-------|----------------------------------|---------|-----------|-------------------------------|-----------|-----|------------------|-------|
| Course Code | | | Nature | Department | Week) | | | Practical | | al Theory | | Total Credits | Total |
| ooue | | | | | L | т | La b | СА | ESE | СА | ESE | | |
| | Semester : 7 | | | | | | | | | | | | |
| | | | | ign and Development sation Core Courses | | | | | | | | | |
| T7805 | 0705210722 | Project | PIS | | 0 | 0 | 10 | 50 | 75 | 0 | 0 | 5 | 125 |
| T7802 | 0705210723 | Seminar | PIS | | 0 | 0 | 4 | 20 | 30 | 0 | 0 | 2 | 50 |
| | | | | Total | 0 | 0 | 14 | 70 | 105 | 0 | 0 | 7 | 175 |
| | | | : | Semester : 7 | | | | | | | | | |
| | | | | ernet of Things sation Core Courses | | | | | | | | | |
| T7805 | 0705210722 | Project | PIS | | 0 | 0 | 10 | 50 | 75 | 0 | 0 | 5 | 125 |
| T7802 | 0705210723 | Seminar | PIS | | 0 | 0 | 4 | 20 | 30 | 0 | 0 | 2 | 50 |
| | | | | Total | 0 | 0 | 14 | 70 | 105 | 0 | 0 | 7 | 175 |
| | Semester : 7 | | | | | | | | | | | | |
| Security and Privacy Specialisation Core Courses | | | | | | | | | | | | | |
| T7805 | 0705210722 | Project | PIS | | 0 | 0 | 10 | 50 | 75 | 0 | 0 | 5 | 125 |
| T7802 | 0705210723 | Seminar | PIS | | 0 | 0 | 4 | 20 | 30 | 0 | 0 | 2 | 50 |
| | | | | Total | 0 | 0 | 14 | 70 | 105 | 0 | 0 | 7 | 175 |



Optional 'Honours' Specialisation

| Semester | Internal Credits | External Credits | Total Credits | Total Marks |
|------------|------------------|--------------------------------|---------------|-------------|
| | Artific | al Intelligence and Machine Le | arning | |
| Semester 5 | 0 | 6 | 6 | 150 |
| Semester 6 | 0 | 7 | 7 | 175 |
| Semester 7 | 0 | 7 | 7 | 175 |
| Total | 0 | 20 | 20 | 500 |
| | | Computing | | • |
| Semester 5 | 0 | 6 | 6 | 150 |
| Semester 6 | 0 | 7 | 7 | 175 |
| Semester 7 | 0 | 7 | 7 | 175 |
| Total | 0 | 20 | 20 | 500 |
| | | Data Science | | |
| Semester 5 | 0 | 7 | 7 | 175 |
| Semester 6 | 0 | 6 | 6 | 150 |
| Semester 7 | 0 | 7 | 7 | 175 |
| Total | 0 | 20 | 20 | 500 |
| | | Game Design and Developmen | t | |
| Semester 5 | 0 | 6 | 6 | 150 |
| Semester 6 | 0 | 7 | 7 | 175 |
| Semester 7 | 0 | 7 | 7 | 175 |
| Total | 0 | 20 | 20 | 500 |
| | | Internet of Things | | |
| Semester 5 | 0 | 7 | 7 | 175 |
| Semester 6 | 0 | 6 | 6 | 150 |



Optional 'Honours' Specialisation

| Semester 7 | 0 | 7 | 7 | 175 | | | | | | | | |
|------------|----------------------|----|----|-----|--|--|--|--|--|--|--|--|
| Total | 0 | 20 | 20 | 500 | | | | | | | | |
| | Security and Privacy | | | | | | | | | | | |
| Semester 5 | 0 | 6 | 6 | 150 | | | | | | | | |
| Semester 6 | 0 | 7 | 7 | 175 | | | | | | | | |
| Semester 7 | 0 | 7 | 7 | 175 | | | | | | | | |
| Total | 0 | 20 | 20 | 500 | | | | | | | | |

