



## **SIPNA COLLEGE OF ENGINEERING & TECHNOLOGY, AMRAVATI**

SoE No.  
24BTCE-1.1

**An Autonomous Institute Affiliated to**

**Sant Gadge Baba Amravati University, Amravati, Maharashtra (India)**

**(Approved by AICTE, New Delhi and Recognized by DTE, Maharashtra)**

**(Accredited With 'A+' Grade by NAAC)**

**Bachelor of Technology (B. Tech.)**

**Programme Scheme of Examination (SoE)**

**Department of Civil Engineering**

**B. Tech. Civil Engineering with Multidisciplinary Minor**

**(Semester Pattern)**

**Effective from Academic Year 2025-26**

**Prepared by: Board of Studies - Civil Engineering**

**Approved by: Academic Council - Sipna COET, Amravati**

|                                      |                           |                                      |                        |                |
|--------------------------------------|---------------------------|--------------------------------------|------------------------|----------------|
|                                      |                           |                                      | 05/07/2025             | 1.1            |
| <b>Chairman<br/>Board of Studies</b> | <b>Dean<br/>Academics</b> | <b>Chairman<br/>Academic Council</b> | <b>Date of Release</b> | <b>Version</b> |



**Definition of Course Code**

| 1 <sup>st</sup> & 2 <sup>nd</sup> letter<br>(Degree Program) | 3 <sup>rd</sup> & 4 <sup>th</sup> letter applicable to which students   | 5 <sup>th</sup> & 6 <sup>th</sup> letter (Course category)  | 7 <sup>th</sup> & 8 <sup>th</sup> letter (Sr. no. of Subject)   | 9 <sup>th</sup> & 10 <sup>th</sup> letters Teaching Dept.   | 11 <sup>th</sup> letter (Semester)  | 12 <sup>th</sup> letter (Theory or Practical) |
|--|---|---|---|---|---|---|
| BT: B. Tech.<br>MT: M. Tech.<br>MB: MBA                      | AL: All branches<br>CS: Computer Science and Engineering<br>IT: Information Technology<br>ME: Mechanical Engineering<br>ET: Electronics and Telecommunication Engineering<br>CE: Civil Engineering<br>AD: Artificial Intelligence (AI) and Data Science<br>For MDM 'AL' excluding Teaching Department students' | BS: Basic Science<br>ES: Engineering Science<br>VE: Value Education<br>VS: Vocational and Skill Enhancement<br>AE: Ability Enhancement<br>IK: Indian Knowledge System<br>CC: Cocurricular Course<br>MD: Multidisciplinary Minor<br>OE: Open Elective<br>PC: Program Core<br>PE: Program Elective<br>FP: Field Project<br>H: Humanities<br>N: Entrepreneurship<br>E: Economics<br>M: Management<br>II: Industry Internship<br>RI: Research Internship<br>EI: Entrepreneurship Internship<br>RM: Research Methodology<br>PS: Project and Seminar<br>RP: Research Project and seminar<br>MH: Minors & Honors | Sr. no. of course in the particular Course category from 1 <sup>st</sup> to 8 <sup>th</sup> semester. | SH: Science and Humanities<br>CS: Computer Science and Engineering<br>IT: Information Technology<br>ME: Mechanical Engineering<br>ET: Electronics and Telecommunication Engineering<br>CE: Civil Engineering<br>AD: Artificial Intelligence (AI) and Data Science | 1: First Semester<br>2: Second Semester<br>3: Third Semester<br>4: Fourth Semester<br>5: Fifth Semester<br>6: Sixth Semester<br>7: Seventh Semester<br>8: Eighth Semester | T: Theory<br>P: Practical                     |

*[Signature]*  
Approved in..... 3<sup>rd</sup>.....

Academic Council Meeting  
Dated:....25/07/2025.....



### Category-wise Courses Master List

| <b>Course Category: Basic Science Course (BSC)</b> |                              |                    |
|--|------------------------------|--------------------|
| <b>Sr. No.</b>                                     | <b>Course Name</b>           | <b>Course Code</b> |
| 1  | Engineering Mathematics -I   | BTALBS01SH1T       |
| 2  | Engineering Chemistry        | BTALBS02SH1T       |
| 3  | Engineering Chemistry Lab    | BTALBS03SH1P       |
| 4  | Engineering Mathematics -II  | BTALBS04SH2T       |
| 5  | Engineering Physics          | BTCEBS05SH2T       |
| 6  | Engineering Physics Lab      | BTCEBS06SH2P       |
| 7  | Engineering Mathematics -III | BTCEBS07SH3T       |

| <b>Course Category: Engineering Science Course (ESC)</b> |                                     |                    |
|--|-------------------------------------|--------------------|
| <b>Sr. No.</b>   | <b>Course Name</b>                  | <b>Course Code</b> |
| 1  | Engineering Graphics                | BTALES01ME1T       |
| 2  | Engineering Graphics Lab            | BTALES02ME1P       |
| 3  | Engineering Mechanics               | BTCEES03CE1T       |
| 4  | Engineering Mechanics Lab           | BTCEES04CE1P       |
| 5  | Basic Electrical Engineering        | BTALES05ET2T       |
| 6  | Basic Electrical Engineering Lab    | BTALES06ET2P       |
| 7  | Programming for Problem Solving     | BTCEES07IT2T       |
| 8  | Programming for Problem Solving Lab | BTCEES08IT2P       |
| 9  | Workshop Practice Lab               | BTALES09ME2P       |

*Approved in.....* 3<sup>rd</sup>  
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Dated:- 05/07/2025



| <b>Course Category: Vocational and Skill Enhancement Courses (VSEC)</b> |                                   |                    |
|---|-----------------------------------|--------------------|
| <b>Sr. No.</b>  | <b>Course Name</b>                | <b>Course Code</b> |
| 1   | Fundamentals of AutoCAD           | BTCEVS01CE1P       |
| 2   | Design Thinking                   | BTCEVS02CE1T       |
| 3   | Building Construction Practices   | BTCEVS03CE2P       |
| 4   | Computational Structural Analysis | BTCEVS04CE4P       |
| 5   | QGIS for Civil Engineering        | BTCEVS05CE6P       |

| <b>Course Category: Humanities, Social Science and Management Courses [HSSMC]</b> |                                       |                    |
|---|---------------------------------------|--------------------|
| <b>Sr. No.</b>  | <b>Course Name</b>                    | <b>Course Code</b> |
| 1   | Professional Communication            | BTALAE01SH1P       |
| 2   | Values and Ethics                     | BTALVE01SH1T       |
| 3   | Environmental Studies                 | BTALVE02SH1T       |
| 4   | Indian Knowledge System               | BTALIK01SH2T       |
| 5   | Principles of Management              | BTCEHM01CE3T       |
| 6   | Entrepreneurship in Civil Engineering | BTCEHM02CE4T       |
| 7   | Modern Indian Language                | BTALAE02SH6T       |

| <b>Course Category: Experiential Learning Courses (ELC)</b> |  |   |
|---|--|---|
| <b>Sr. No.</b>  | <b>Course Name</b>   | <b>Course Code</b>                        |
| 1   | Field project  | BTCEFP01CE5P                              |
| 2   | Project and Seminar/ Research Project and Seminar          | BTCEPS01CE7P / BTCERP01CE7P               |
| 3   | Research Methodology                                       | BTCERM01CE8T                              |
| 4   | Industry Internship/ Research Internship/ Entrepreneurship | BTCEII01CE8P / BTCERI01CE8P/ BTCEEI01CE8P |

*Prashant*  
Approved in..... 3<sup>rd</sup>  
Academic Council Meeting  
Dated:- 25/07/2025



| <b>Course Category: Programme Core Courses (PCC)</b> |   |                    |
|--|---|--------------------|
| <b>Sr. No.</b>                                       | <b>Course Name</b>                              | <b>Course Code</b> |
| 1  | Building Construction                           | BTCEPC01CE2T       |
| 2  | Strength of Materials                           | BTCEPC02CE3T       |
| 3  | Strength of Materials Lab                       | BTCEPC03CE3P       |
| 4  | Concrete Technology                             | BTCEPC04CE3T       |
| 5  | Concrete Technology Lab                         | BTCEPC05CE3P       |
| 6  | Surveying & Geomatics                           | BTCEPC06CE3T       |
| 7  | Surveying & Geomatics Lab                       | BTCEPC07CE3P       |
| 8  | Geotechnical Engineering                        | BTCEPC08CE4T       |
| 9  | Geotechnical Engineering Lab                    | BTCEPC09CE4P       |
| 10   | Highway Engineering                             | BTCEPC10CE4T       |
| 11   | Highway Engineering Lab                         | BTCEPC11CE4P       |
| 12   | Structural Analysis                             | BTCEPC12CE4T       |
| 13   | Construction Engineering & Management           | BTCEPC13CE4T       |
| 14   | Design of Concrete Structures                   | BTCEPC14CE5T       |
| 15   | Structural Design Lab                           | BTCEPC15CE5P       |
| 16   | Building Planning & CAD                         | BTCEPC16CE5T       |
| 17   | Building Planning & CAD Lab                     | BTCEPC17CE5P       |
| 18   | Fluid Mechanics                                 | BTCEPC18CE5T       |
| 19   | Fluid Mechanics Lab                             | BTCEPC19CE5P       |
| 20   | Environmental Engineering-I                     | BTCEPC20CE6T       |
| 21   | Environmental Engineering-I Lab                 | BTCEPC21CE6P       |
| 22   | Water Resource Engineering                      | BTCEPC22CE6T       |
| 23   | Water Resource Engineering Lab                  | BTCEPC23CE6P       |
| 24   | Engineering Economics, Estimation & Costing     | BTCEPC24CE7T       |
| 25   | Engineering Economics, Estimation & Costing Lab | BTCEPC25CE7P       |
| 26   | Environmental Engineering-II                    | BTCEPC26CE7T       |
| 27   | Environmental Engineering-II Lab                | BTCEPC27CE7P       |

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Dated:....05/07/2025.....



| <b>Course Category: Programme Elective Courses (PEC)</b> |  |                    |
|--|--|--------------------|
| <b>Sr. No.</b>   | <b>Course Name</b>                                       | <b>Course Code</b> |
| 1  | Advanced Structural Analysis                             | BTCEPE01CE5T       |
| 2  | Advanced Concrete Technology                             | BTCEPE02CE5T       |
| 3  | Solid Waste Management                                   | BTCEPE03CE5T       |
| 4  | Highway Construction & Management                        | BTCEPE04CE5T       |
| 5  | Hydraulic Engineering                                    | BTCEPE05CE6T       |
| 6  | Hydraulic Engineering Lab                                | BTCEPE06CE6P       |
| 7  | Foundation Engineering                                   | BTCEPE07CE6T       |
| 8  | Foundation Engineering Lab                               | BTCEPE08CE6P       |
| 9  | Prestressed Concrete                                     | BTCEPE09CE6T       |
| 10   | Prestressed Concrete Lab                                 | BTCEPE10CE6P       |
| 11   | Remote Sensing & GPS Surveying                           | BTCEPE11CE6T       |
| 12   | Remote Sensing & GPS Surveying Lab                       | BTCEPE12CE6P       |
| 13   | Ground Improvement Techniques                            | BTCEPE13CE6T       |
| 14   | Ground Improvement Techniques Lab                        | BTCEPE14CE6P       |
| 15   | Structural Analysis by Matrix Methods                    | BTCEPE15CE6T       |
| 16   | Structural Analysis by Matrix Methods Lab                | BTCEPE16CE6P       |
| 17   | Geographic Information System (GIS) & Photogrammetry     | BTCEPE17CE6T       |
| 18   | Geographic Information System (GIS) & Photogrammetry Lab | BTCEPE18CE6P       |
| 19   | Industrial Wastewater Treatment                          | BTCEPE19CE6T       |
| 20   | Industrial Wastewater Treatment Lab                      | BTCEPE20CE6P       |
| 21   | Introduction to Finite Element Analysis                  | BTCEPE21CE7T       |
| 22   | Introduction to Finite Element Analysis Lab              | BTCEPE22CE7P       |
| 23   | Environmental Impact Assessment                          | BTCEPE23CE7T       |
| 24   | Environmental Impact Assessment Lab                      | BTCEPE24CE7P       |
| 25   | Contract Management                                      | BTCEPE25CE7T       |
| 26   | Contract Management Lab                                  | BTCEPE26CE7P       |
| 27   | Railway and Bridge Engineering                           | BTCEPE27CE7T       |

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|    |                                     |              |
|----|-------------------------------------|--------------|
| 28 | Railway and Bridge Engineering Lab  | BTCEPE28CE7P |
| 29 | Industrial Structures               | BTCEPE29CE7T |
| 30 | Air and Noise Pollution Engineering | BTCEPE30CE7T |
| 31 | Geotechnical Designs                | BTCEPE31CE7T |
| 32 | Airport & Tunnel Engineering        | BTCEPE32CE7T |

For the detailed list of Multidisciplinary Minor (MDM) courses.. [click here](#).

For the detailed list of Open Elective (OE) courses... [click here](#).

For the detailed list of Co-curricular (CC) courses... [click here](#).

*Reflected*  
Approved in..... 3<sup>rd</sup>  
Academic Council Meeting  
Dated:-....25/07/2028



**Scheme Semester- I**

| <b>Scheme for First Year B. Tech. In Civil Engineering (Semester -I)</b> |                             |                    |                                    |          |          |             |                |                          |               |           |            |                             |            |              |                        |
|--|-----------------------------|--------------------|------------------------------------|----------|----------|-------------|----------------|--------------------------|---------------|-----------|------------|-----------------------------|------------|--------------|------------------------|
| <b>Sr No</b>   | <b>Course Name</b>          | <b>Course Code</b> | <b>Course Plan per Week (Hrs.)</b> |          |          |             | <b>Credits</b> | <b>Theory Evaluation</b> |               |           |            | <b>Practical Evaluation</b> |            | <b>Total</b> | <b>ESE Time (Hrs.)</b> |
|  |                             |                    | <b>L</b>                           | <b>P</b> | <b>T</b> | <b>Hrs.</b> |                | <b>MSE-I</b>             | <b>MSE-II</b> | <b>TA</b> | <b>ESE</b> | <b>INT</b>                  | <b>EXT</b> |              |                        |
| <b>Basic Science Courses (BSC)</b>                                       |                             |                    |                                    |          |          |             |                |                          |               |           |            |                             |            |              |                        |
| 1  | Engineering Mathematics -I  | BTALBS01SH1T       | 3                                  | 0        | 0        | 3           | 3              | 15                       | 15            | 10        | 60         | -                           | -          | 100          | 2.5                    |
| 2  | Engineering Chemistry       | BTALBS02SH1T       | 3                                  | 0        | 0        | 3           | 3              | 15                       | 15            | 10        | 60         | -                           | -          | 100          | 2.5                    |
| 3  | Engineering Chemistry Lab   | BTALBS03SH1P       | 0                                  | 2        | 0        | 2           | 1              | -                        | -             | -         | -          | 30                          | 20         | 50           | -                      |
| <b>Engineering Science Courses (ESC)</b>                                 |                             |                    |                                    |          |          |             |                |                          |               |           |            |                             |            |              |                        |
| 4  | Engineering Graphics        | BTALES01ME1T       | 3                                  | 0        | 0        | 3           | 3              | 15                       | 15            | 10        | 60         | -                           | -          | 100          | 3.0                    |
| 5  | Engineering Graphics Lab    | BTALES02ME1P       | 0                                  | 2        | 0        | 2           | 1              | -                        | -             | -         | -          | 30                          | 20         | 50           | -                      |
| 6  | Engineering Mechanics       | BTCEES03CE1T       | 3                                  | 0        | 0        | 3           | 3              | 15                       | 15            | 10        | 60         | -                           | -          | 100          | 2.5                    |
| 7  | Engineering Mechanics Lab   | BTCEES04CE1P       | 0                                  | 2        | 0        | 2           | 1              | -                        | -             | -         | -          | 30                          | 20         | 50           | -                      |
| <b>Vocational and Skill Enhancement Courses (VSEC)</b>                   |                             |                    |                                    |          |          |             |                |                          |               |           |            |                             |            |              |                        |
| 8  | Fundamentals of AutoCAD     | BTCEVS01CE1P       | 0                                  | 2        | 0        | 2           | 1              | -                        | -             | -         | -          | 50                          | -          | 50           | -                      |
| 9  | Design Thinking             | BTCEVS02CE1T       | 1                                  | 0        | 0        | 1           | 1              | -                        | -             | -         | 50         | -                           | -          | 50           | -                      |
| <b>Ability Enhancement Courses (AEC)</b>                                 |                             |                    |                                    |          |          |             |                |                          |               |           |            |                             |            |              |                        |
| 10   | Professional Communication  | BTALAE01SH1P       | 0                                  | 2        | 0        | 2           | 1              | -                        | -             | -         | -          | 30                          | 20         | 50           | -                      |
| <b>Value Education Courses (VEC)</b>                                     |                             |                    |                                    |          |          |             |                |                          |               |           |            |                             |            |              |                        |
| 11   | Values and Ethics           | BTALVE01SH1T       | 2                                  | 0        | 0        | 2           | 2              | 15                       | 15            | 10        | 60         | -                           | -          | 100          | 2.5                    |
| 12   | Environmental Studies       | BTALVE02SH1T       | 1                                  | 0        | 0        | 1           | 1              | -                        | -             | 50        | -          | -                           | -          | 50           |                        |
| <b>Cocurricular Courses (CC)</b>   |                             |                    |                                    |          |          |             |                |                          |               |           |            |                             |            |              |                        |
| 13   | Co-curricular Courses (CC1) | -                  | -                                  | 2        | -        | 2           | 1              | -                        | -             | -         | -          | 50                          | -          | 50           | -                      |
| <b>TOTAL</b>   |                             |                    | 16                                 | 12       | 0        | 28          | 22             | 75                       | 75            | 150       | 300        | 220                         | 80         | 900          |                        |

L: Lecture P: Practical T: Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External

Note: Suitable number of hours per week are allotted for continuous evaluation process of above subjects (Total contact hours per week = 42 Hrs.)

**For the details of CC Courses, Refer the link given on page no. 6**

*Re/Ref/100*  
 Approved in..... 3<sup>rd</sup>  
 Academic Council Meeting  
 Dated:-....05/07/2025



**Scheme Semester- II**

| <b>Scheme for First Year B. Tech. In Civil Engineering (Semester -II)</b> |                                     |                    |                                    |          |          |             |                |                          |               |           |            |                             |            |              |                        |
|---|-------------------------------------|--------------------|------------------------------------|----------|----------|-------------|----------------|--------------------------|---------------|-----------|------------|-----------------------------|------------|--------------|------------------------|
| <b>Sr No</b>  | <b>Course Name</b>                  | <b>Course Code</b> | <b>Course Plan per Week (Hrs.)</b> |          |          |             | <b>Credits</b> | <b>Theory Evaluation</b> |               |           |            | <b>Practical Evaluation</b> |            | <b>Total</b> | <b>ESE Time (Hrs.)</b> |
|   |                                     |                    | <b>L</b>                           | <b>P</b> | <b>T</b> | <b>Hrs.</b> |                | <b>MSE- I</b>            | <b>MSE-II</b> | <b>TA</b> | <b>ESE</b> | <b>INT</b>                  | <b>EXT</b> |              |                        |
| <b>Basic Science Courses (BSC)</b>  |                                     |                    |                                    |          |          |             |                |                          |               |           |            |                             |            |              |                        |
| 1   | Engineering Mathematics -II         | BTALBS04SH2T       | 3                                  | 0        | 0        | 3           | 3              | 15                       | 15            | 10        | 60         | -                           | -          | 100          | 2.5                    |
| 2   | Engineering Physics                 | BTCEBS05SH2T       | 3                                  | 0        | 0        | 3           | 3              | 15                       | 15            | 10        | 60         | -                           | -          | 100          | 2.5                    |
| 3   | Engineering Physics Lab             | BTCEBS06SH2P       | 0                                  | 2        | 0        | 2           | 1              | -                        | -             | -         | -          | 30                          | 20         | 50           | -                      |
| <b>Engineering Science Courses (ESC)</b>                                  |                                     |                    |                                    |          |          |             |                |                          |               |           |            |                             |            |              |                        |
| 4   | Basic Electrical Engineering        | BTALES05ET2T       | 3                                  | 0        | 0        | 3           | 3              | 15                       | 15            | 10        | 60         | -                           | -          | 100          | 2.5                    |
| 5   | Basic Electrical Engineering Lab    | BTALES06ET2P       | 0                                  | 2        | 0        | 2           | 1              | -                        | -             | -         | -          | 30                          | 20         | 50           | -                      |
| 6   | Programming for Problem Solving     | BTCEES07IT2T       | 3                                  | 0        | 0        | 3           | 3              | 15                       | 15            | 10        | 60         | -                           | -          | 100          | 2.5                    |
| 7   | Programming for Problem Solving Lab | BTCEES08IT2P       | 0                                  | 2        | 0        | 2           | 1              | -                        | -             | -         | -          | 30                          | 20         | 50           | -                      |
| 8   | Workshop Practice Lab               | BTALES09ME2P       | 0                                  | 2        | 0        | 2           | 1              | -                        | -             | -         | -          | 30                          | 20         | 50           | -                      |
| <b>Vocational and Skill Enhancement Courses (VSEC)</b>                    |                                     |                    |                                    |          |          |             |                |                          |               |           |            |                             |            |              |                        |
| 9   | Building Construction Practices     | BTCEVS03CE2P       | 0                                  | 2        | 0        | 2           | 1              | -                        | -             | -         | -          | 50                          | -          | 50           | -                      |
| <b>Program Core Courses (PCC)</b>   |                                     |                    |                                    |          |          |             |                |                          |               |           |            |                             |            |              |                        |
| 10  | Building Construction               | BTCEPC01CE2T       | 2                                  | 0        | 0        | 2           | 2              | 15                       | 15            | 10        | 60         | -                           | -          | 100          | 2.5                    |
| <b>Indian Knowledge System (IKS)</b>                                      |                                     |                    |                                    |          |          |             |                |                          |               |           |            |                             |            |              |                        |
| 11  | Indian Knowledge System             | BTALIK01SH2T       | 2                                  | 0        | 0        | 2           | 2              | -                        | -             | 50        | -          | -                           | -          | 50           | -                      |
| <b>Cocurricular Courses (CC)</b>  |                                     |                    |                                    |          |          |             |                |                          |               |           |            |                             |            |              |                        |
| 12  | Co-curricular Courses (CC2)         | -                  | -                                  | 2        | -        | 2           | 1              | -                        | -             | -         | -          | 50                          | -          | 50           | -                      |
| <b>TOTAL</b>  |                                     |                    | 16                                 | 12       | 0        | 28          | 22             | 75                       | 75            | 100       | 300        | 220                         | 80         | 850          |                        |

**L:** Lecture **P:** Practical **T:** Tutorial **MSE:** Mid Semester Exam **ESE:** End Semester Exam **TA:** Teacher Assessment **INT:** Internal **EXT:** External

Note: Suitable number of hours per week are allotted for continuous evaluation process of all subjects (Total contact hours per week = 42 Hrs.)

**For the details of CC Courses, Refer the link given on page no. 6**

**Scheme for Multiple Entry and Exit**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <b>Exit option1(L1- 4.5): Award of One Year UG Certificate in Major with 44 credits and an additional 8 credits.</b> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Exit Courses</b>  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1  | Eight Credit Online courses from Swayam/ NPTEL /ANY Other agency approved by BoS which provides certification/ Evaluation. |  |  |  |  |  |  |  |  |  |  |  |  |  |

*Prabhakar*  
**Approved in..... 3<sup>rd</sup>.....**  
**Academic Council Meeting**  
**Dated:..... 25/07/2020.....**



**Scheme Semester- III**

| Scheme for Second Year B. Tech. In Civil Engineering (Semester-III) |                              |              |                            |    |   |     |         |                   |        |    |     |                      |       |                |     |
|---|------------------------------|--------------|----------------------------|----|---|-----|---------|-------------------|--------|----|-----|----------------------|-------|----------------|-----|
| Sr No   | Course Name                  | Course Code  | Course Plan per Week (Hrs) |    |   |     | Credits | Theory Evaluation |        |    |     | Practical Evaluation | Total | ESE Time (Hrs) |     |
|   |                              |              | L                          | P  | T | Hrs |         | MSE I             | MSE II | TA | ESE |                      |       |                |     |
| <b>Basic Science Courses (BSC)</b>                                  |                              |              |                            |    |   |     |         |                   |        |    |     |                      |       |                |     |
| 1   | Engineering Mathematics -III | BTCEB07SH3T  | 3                          | 0  | 0 | 3   | 3       | 15                | 15     | 10 | 60  | -                    | -     | 100            | 2.5 |
| <b>Program Core Courses (PCC)</b>                                   |                              |              |                            |    |   |     |         |                   |        |    |     |                      |       |                |     |
| 2   | Strength of Materials        | BTCEPC02CE3T | 3                          | 0  | 0 | 3   | 3       | 15                | 15     | 10 | 60  | -                    | -     | 100            | 2.5 |
| 3   | Strength of Materials Lab    | BTCEPC03CE3P | 0                          | 2  | 0 | 2   | 1       | -                 | -      | -  | -   | 30                   | 20    | 50             | -   |
| 4   | Concrete Technology          | BTCEPC04CE3T | 3                          | 0  | 0 | 3   | 3       | 15                | 15     | 10 | 60  | -                    | -     | 100            | 2.5 |
| 5   | Concrete Technology Lab      | BTCEPC05CE3P | 0                          | 2  | 0 | 2   | 1       | -                 | -      | -  | -   | 30                   | 20    | 50             | -   |
| 6   | Surveying & Geomatics        | BTCEPC06CE3T | 3                          | 0  | 0 | 3   | 3       | 15                | 15     | 10 | 60  | -                    | -     | 100            | 2.5 |
| 7   | Surveying & Geomatics Lab    | BTCEPC07CE3P | 0                          | 2  | 0 | 2   | 1       | -                 | -      | -  | -   | 30                   | 20    | 50             | -   |
| <b>Multidisciplinary Minor Courses (MDM)</b>                        |                              |              |                            |    |   |     |         |                   |        |    |     |                      |       |                |     |
| 8   | Multi-Disciplinary Minor-I   | --           | 3                          | 0  | 0 | 3   | 3       | 15                | 15     | 10 | 60  | -                    | -     | 100            | 2.5 |
| <b>Open Elective Courses (OEC)</b>                                  |                              |              |                            |    |   |     |         |                   |        |    |     |                      |       |                |     |
| 9   | Open Elective- I             | --           | 2                          | 0  | 0 | 2   | 2       | 15                | 15     | 10 | 60  | -                    | -     | 100            | 2.5 |
| <b>HSSMC (Entrepreneurship/ Economics/ Management Course)</b>       |                              |              |                            |    |   |     |         |                   |        |    |     |                      |       |                |     |
| 10  | Principles of Management     | BTCEHM01CE3T | 2                          | 0  | 0 | 2   | 2       | 15                | 15     | 10 | 60  |                      |       | 100            | 2.5 |
| <b>TOTAL</b>  |                              |              | 19                         | 06 | 0 | 25  | 22      | 105               | 105    | 70 | 420 | 90                   | 60    | 850            |     |

L: Lecture P: Practical T: Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External

Note: Suitable number of hours per week are allotted for continuous evaluation process of above subjects (Total contact hours per week = 42 Hrs.)

**For the details of OE/MDM Courses, Refer the link given on page no.....**

*Refresher*  
*Approved in..... 3<sup>rd</sup>*  
**Academic Council Meeting**  
**Dated:-....25/07/2025.....**



**Scheme Semester- IV**

| Sr No   | Course Name                           | Course Code  | Course Plan per Week (Hrs.) |    |   |      | Credits | Theory Evaluation |        |    |     | Practical Evaluation |     | Total | ESE Time (Hrs.) |
|---|---------------------------------------|--------------|-----------------------------|----|---|------|---------|-------------------|--------|----|-----|----------------------|-----|-------|-----------------|
|   |                                       |              | L                           | P  | T | Hrs. |         | MSE-I             | MSE-II | TA | ESE | INT                  | EXT |       |                 |
|   |                                       |              | Program Core Courses (PCC)  |    |   |      |         |                   |        |    |     |                      |     |       |                 |
| 1   | Geotechnical Engineering              | BTCEPC08CE4T | 3                           | 0  | 0 | 3    | 3       | 15                | 15     | 10 | 60  |                      |     | 100   | 2.5             |
| 2   | Geotechnical Engineering Lab          | BTCEPC09CE4P | 0                           | 2  | 0 | 2    | 1       |                   |        |    |     | 30                   | 20  | 50    | -               |
| 3   | Highway Engineering                   | BTCEPC10CE4T | 3                           | 0  | 0 | 3    | 3       | 15                | 15     | 10 | 60  |                      |     | 100   | 2.5             |
| 4   | Highway Engineering Lab               | BTCEPC11CE4P | 0                           | 2  | 0 | 2    | 1       |                   |        |    |     | 30                   | 20  | 50    | -               |
| 5   | Structural Analysis                   | BTCEPC12CE4T | 3                           | 0  | 0 | 3    | 3       | 15                | 15     | 10 | 60  |                      |     | 100   | 2.5             |
| 6   | Construction Engineering & Management | BTCEPC13CE4T | 2                           | 0  | 0 | 2    | 2       | 15                | 15     | 10 | 60  |                      |     | 100   | 2.5             |
| <b>Multidisciplinary Minor Courses (MDM)</b>                  |                                       |              |                             |    |   |      |         |                   |        |    |     |                      |     |       |                 |
| 7   | Multi-Disciplinary Minor-II           | --           | 3                           | 0  | 0 | 3    | 3       | 15                | 15     | 10 | 60  |                      |     | 100   | 2.5             |
| <b>Vocational and Skill Enhancement Courses (VSEC)</b>        |                                       |              |                             |    |   |      |         |                   |        |    |     |                      |     |       |                 |
| 8   | Computational Structural Analysis     | BTCEVS04CE4P | 1                           | 2  | 0 | 3    | 2       |                   |        |    |     | 50                   |     | 50    | -               |
| <b>Open Elective Courses (OEC)</b>                            |                                       |              |                             |    |   |      |         |                   |        |    |     |                      |     |       |                 |
| 9   | Open Elective- II                     | --           | 2                           | 0  | 0 | 2    | 2       | 15                | 15     | 10 | 60  |                      |     | 100   | 2.5             |
| <b>HSSMC (Entrepreneurship/ Economics/ Management Course)</b> |                                       |              |                             |    |   |      |         |                   |        |    |     |                      |     |       |                 |
| 10  | Entrepreneurship in Civil Engineering | BTCEHN02CE4T | 2                           | 0  | 0 | 2    | 2       | 15                | 15     | 10 | 60  |                      |     | 100   | 2.5             |
| <b>TOTAL</b>  |                                       |              | 19                          | 06 | 0 | 25   | 22      | 105               | 105    | 70 | 420 | 110                  | 40  | 850   |                 |

L: Lecture P: Practical T: Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External

Note: Suitable number of hours per week are allotted for continuous evaluation process of all subjects (Total contact hours per week = 42 Hrs.)

**For the details of OE/MDM Courses, Refer the link given on page no. 6**

**Scheme for Multiple Entry and Exit**

| Exit option 2 (L2- 5.0): Award of Two Years UG Diploma in Major with 88 credits and an additional 8 credits |  |  |  |  |  |  |  |  |  |  |  |  |                                     |           |  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|-------------------------------------|-----------|--|
| Exit Courses  |  |  |  |  |  |  |  |  |  |  |  |  |                                     |           |  |
| 1   | Eight Credit Online courses from Swayam/ NPTEL /ANY Other agency approved by BoS which provides certification/ Evaluation. |  |  |  |  |  |  |  |  |  |  |  | Online/offline certification Course | 8 Credits |  |

*Fullethan*  
 Approved in..... 3<sup>rd</sup>  
 Academic Council Meeting  
 Dated:....25/07/2025



**Scheme Semester- V**

| Sr No   | Course Name                   | Course Code  | Scheme for Third Year B. Tech. In Civil Engineering (Semester -V) |    |    |    |         | Practical Evaluation |    |    |     | Total | ESE Time (Hrs.) |     |
|---|-------------------------------|--------------|---|----|----|----|---------|----------------------|----|----|-----|-------|-----------------|-----|
|   |                               |              | Course Plan per Week (Hrs.)                                       |    |    |    | Credits | Theory Evaluation    |    |    | INT |       |                 |     |
| Program Core Courses (PCC) / Program Elective Courses (PEC) |                               |              |   |    |    |    |         |                      |    |    |     |       |                 |     |
| 1   | Design of Concrete Structures | BTCEPC14CE5T | 3   | 0  | 0  | 3  | 3       | 15                   | 15 | 10 | 60  |       | 100             | 3.0 |
| 2   | Structural Design Lab         | BTCEPC15CE5P | 0   | 2  | 0  | 2  | 1       |                      |    |    |     | 30    | 20              | 50  |
| 3   | Building Planning & CAD       | BTCEPC16CE5T | 3   | 0  | 0  | 3  | 3       | 15                   | 15 | 10 | 60  |       | 100             | 2.5 |
| 4   | Building Planning & CAD Lab   | BTCEPC17CE5P | 0   | 2  | 0  | 2  | 1       |                      |    |    |     | 30    | 20              | 50  |
| 5   | Fluid Mechanics               | BTCEPC18CE5T | 3   | 0  | 0  | 3  | 3       | 15                   | 15 | 10 | 60  |       | 100             | 2.5 |
| 6   | Fluid Mechanics Lab           | BTCEPC19CE5P | 0   | 2  | 0  | 2  | 1       |                      |    |    |     | 30    | 20              | 50  |
| 7   | Program Elective Course-I     | ---          | 3   | 0  | 1  | 4  | 4       | 15                   | 15 | 10 | 60  |       | 100             | 2.5 |
| 8   | Field project                 | BTCEFP01CE5P | 0   | 2  | 0  | 2  | 1       |                      |    |    |     | 50    | 50              | -   |
| Multidisciplinary Minor Courses (MDM)                       |                               |              |   |    |    |    |         |                      |    |    |     |       |                 |     |
| 9   | Multi-Disciplinary Minor-III  | --           | 3   | 0  | 0  | 3  | 3       | 15                   | 15 | 10 | 60  |       | 100             | 2.5 |
| Open Elective Courses (OEC)                                 |                               |              |   |    |    |    |         |                      |    |    |     |       |                 |     |
| 10  | Open Elective- III            | --           | 2   | 0  | 0  | 2  | 2       | 15                   | 15 | 10 | 60  |       | 100             | 2.5 |
| TOTAL   |                               |              | 17  | 08 | 01 | 26 | 22      | 90                   | 90 | 60 | 360 | 140   | 60              | 800 |

L: Lecture P: Practical T: Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External

Note: Suitable number of hours per week are allotted for continuous evaluation process of above subjects (Total contact hours per week = 42 Hrs.)

**List of Program Elective Course-I (Semester-V) (Choose any one Course)**

| Sr. No. | Course Name                       | Course Code  |
|---------|-----------------------------------|--------------|
| 1       | Advanced Structural Analysis      | BTCEPE01CE5T |
| 2       | Advanced Concrete Technology      | BTCEPE02CE5T |
| 3       | Solid Waste Management            | BTCEPE03CE5T |
| 4       | Highway Construction & Management | BTCEPE04CE5T |

**For the details of OE/MDM Courses, Refer the link given on page no.6**

*Prathibha*  
 Approved in.....  
 Academic Council Meeting  
 Dated:....25/07/2025



**Scheme Semester- VI**

**Scheme for Third Year B. Tech. In Civil Engineering (Semester -VI)**

| Sr No   | Course Name                      | Course Code  | Course Plan per Week (Hrs.) |    |   |      | Credits | Theory Evaluation |        |     |     | Practical Evaluation |     | Total | ESE Time (Hrs.) |
|---|----------------------------------|--------------|-----------------------------|----|---|------|---------|-------------------|--------|-----|-----|----------------------|-----|-------|-----------------|
|   |                                  |              | L                           | P  | T | Hrs. |         | MSE-I             | MSE-II | TA  | ESE | INT                  | EXT |       |                 |
| <b>Program Core Courses (PCC)/ Program Elective Courses (PEC)</b> |                                  |              |                             |    |   |      |         |                   |        |     |     |                      |     |       |                 |
| 1   | Environmental Engineering-I      | BTCEPC20CE6T | 3                           | 0  | 0 | 3    | 3       | 15                | 15     | 10  | 60  |                      |     | 100   | 2.5             |
| 2   | Environmental Engineering-I Lab  | BTCEPC21CE6P | 0                           | 2  | 0 | 2    | 1       |                   |        |     |     | 30                   | 20  | 50    | -               |
| 3   | Water Resource Engineering       | BTCEPC22CE6T | 3                           | 0  | 0 | 3    | 3       | 15                | 15     | 10  | 60  |                      |     | 100   | 3.0             |
| 4   | Water Resource Engineering Lab   | BTCEPC23CE6P | 0                           | 2  | 0 | 2    | 1       |                   |        |     |     | 30                   | 20  | 50    | -               |
| 5   | Program Elective Course-II       | ---          | 3                           | 0  | 0 | 3    | 3       | 15                | 15     | 10  | 60  |                      |     | 100   | 2.5             |
| 6   | Program Elective Course-II Lab   | ---          | 0                           | 2  | 0 | 2    | 1       |                   |        |     |     | 30                   | 20  | 50    | -               |
| 7   | Program Elective Course- III     | ---          | 3                           | 0  | 0 | 3    | 3       | 15                | 15     | 10  | 60  |                      |     | 100   | 2.5             |
| 8   | Program Elective Course- III Lab | ---          | 0                           | 2  | 0 | 2    | 1       |                   |        |     |     | 30                   | 20  | 50    | -               |
| <b>Ability Enhancement Courses (AEC)</b>                          |                                  |              |                             |    |   |      |         |                   |        |     |     |                      |     |       |                 |
| 9   | Modern Indian Language           | BTALAE02SH6T | 1                           | 0  | 0 | 1    | 1       |                   |        |     | 50  |                      |     | 50    | -               |
| <b>Multidisciplinary Minor Courses (MDM)</b>                      |                                  |              |                             |    |   |      |         |                   |        |     |     |                      |     |       |                 |
| 10  | Multi-Disciplinary Minor-IV      | ---          | 3                           | 0  | 0 | 3    | 3       | 15                | 15     | 10  | 60  |                      |     | 100   | 2.5             |
| <b>Vocational and Skill Enhancement Courses (VSEC)</b>            |                                  |              |                             |    |   |      |         |                   |        |     |     |                      |     |       |                 |
| 11  | QGIS for Civil Engineering       | BTCEVS05CE6P | 1                           | 2  | 0 | 3    | 2       |                   |        |     |     | 50                   |     | 50    | -               |
| TOTAL   |                                  |              | 17                          | 10 | 0 | 27   | 22      | 75                | 75     | 100 | 300 | 170                  | 80  | 800   |                 |

L: Lecture P: Practical T: Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External

Note: Suitable number of hours per week are allotted for continuous evaluation process of above subjects (Total contact hours per week = 42 Hrs.) **For the details of MDM Courses, Refer the link given on page no.6**

**List of Program Elective Course-II (Semester-VI) (Choose any one Course and its associated lab, if any)**

| S. N. | Course Name                | Course Code  | S. N. | Course Name                        | Course Code  |
|-------|----------------------------|--------------|-------|------------------------------------|--------------|
| 1     | Hydraulic Engineering      | BTCEPE05CE6T | 5     | Prestressed Concrete               | BTCEPE09CE6T |
| 2     | Hydraulic Engineering Lab  | BTCEPE06CE6P | 6     | Prestressed Concrete Lab           | BTCEPE10CE6P |
| 3     | Foundation Engineering     | BTCEPE07CE6T | 7     | Remote Sensing & GPS Surveying     | BTCEPE11CE6T |
| 4     | Foundation Engineering Lab | BTCEPE08CE6P | 8     | Remote Sensing & GPS Surveying Lab | BTCEPE12CE6P |

**List of Program Elective Course-III (Semester-VI) (Choose any one Course and its associated lab, if any)**

| S. N. | Course Name                               | Course Code  | S. N. | Course Name  | Course Code  |
|-------|---|--------------|-------|--|--------------|
| 1     | Ground Improvement Techniques             | BTCEPE13CE6T | 5     | Geographic Information System (GIS) & Photogrammetry     | BTCEPE17CE6T |
| 2     | Ground Improvement Techniques Lab         | BTCEPE14CE6P | 6     | Geographic Information System (GIS) & Photogrammetry Lab | BTCEPE18CE6P |
| 3     | Structural Analysis by Matrix Methods     | BTCEPE15CE6T | 7     | Industrial Wastewater Treatment                          | BTCEPE19CE6T |
| 4     | Structural Analysis by Matrix Methods Lab | BTCEPE16CE6P | 8     | Industrial Wastewater Treatment Lab                      | BTCEPE20CE6P |

Scheme for Multiple Entry and Exit

**Exit option 3 (L3- 5.5): Award of Three Years Bachelor's Degree (B. Voc. or B.Sc.) in Major with 132 credits and an additional 8 credits**

Exit Courses

*[Signature]*  
**Approved in.....**  
**Academic Council Meeting**  
**Dated:- 05/07/2025**



|   |   |                                     |           |
|---|---|-------------------------------------|-----------|
| 1 | Eight Credit Online courses from Swayam/ NPTEL /ANY Other agency approved by BoS which provides certification/Evaluation. | Online/offline certification Course | 8 Credits |
|---|---|-------------------------------------|-----------|

**Scheme Semester- VII**

**Scheme for Fourth Year B. Tech. In Civil Engineering (Semester -VII)**

| Sr No   | Course Name   | Code                               | Course Plan per Week (Hrs.) |    |   |      | Credits | Theory Evaluation |        |    | Practical Evaluation |     | Total | ESE Time (Hrs.) |     |
|---|---|------------------------------------|-----------------------------|----|---|------|---------|-------------------|--------|----|----------------------|-----|-------|-----------------|-----|
|   |   |                                    | L                           | P  | T | Hrs. |         | MSE-I             | MSE-II | TA | ESE                  | INT | EXT   |                 |     |
| <b>Program Core Courses (PCC)/ Program Elective Courses (PEC)</b> |   |                                    |                             |    |   |      |         |                   |        |    |                      |     |       |                 |     |
| 1   | Engineering Economics, Estimation & Costing               | BTCEPC24CE7T                       | 3                           | 0  | 0 | 3    | 3       | 15                | 15     | 10 | 60                   |     |       | 100             | 2.5 |
| 2   | Engineering Economics, Estimation & Costing Lab           | BTCEPC25CE7P                       | 0                           | 2  | 0 | 2    | 1       |                   |        |    |                      | 30  | 20    | 50              | -   |
| 3   | Environmental Engineering-II                              | BTCEPC26CE7T                       | 3                           | 0  | 0 | 3    | 3       | 15                | 15     | 10 | 60                   |     |       | 100             | 2.5 |
| 4   | Environmental Engineering-II Lab                          | BTCEPC27CE7P                       | 0                           | 2  | 0 | 2    | 1       |                   |        |    |                      | 30  | 20    | 50              | -   |
| 5   | Design of Steel Structures                                | BTCEPC28CE7T                       | 3                           | 0  | 0 | 3    | 3       | 15                | 15     | 10 | 60                   |     |       | 100             | 2.5 |
| 6   | Program Elective Course-IV                                | --                                 | 3                           | 0  | 0 | 3    | 3       | 15                | 15     | 10 | 60                   |     |       | 100             | 2.5 |
| 7   | Program Elective Course-IV Lab                            | --                                 | 0                           | 2  | 0 | 2    | 1       |                   |        |    |                      | 30  | 20    | 50              | -   |
| 8   | Program Elective Course-V                                 | --                                 | 3                           | 0  | 0 | 3    | 3       | 15                | 15     | 10 | 60                   |     |       | 100             | 2.5 |
| 9   | Project and Seminar<br>OR<br>Research Project and Seminar | BTCEPS01CE7P<br>OR<br>BTCERP01CE7P | 0                           | 8  | 0 | 8    | 4       |                   |        |    |                      | 30  | 20    | 50              | -   |
| TOTAL   |   |                                    | 15                          | 14 | 0 | 29   | 22      | 75                | 75     | 50 | 300                  | 120 | 80    | 700             |     |

L: Lecture P: Practical T: Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External

Note: Suitable number of hours per week are allotted for continuous evaluation process of all subjects (Total contact hours per week = 42 Hrs.)

**List of Program Elective Course-IV (Semester-VII) (Choose any one Course and its associated lab, if any)**

| S. N. | Course Name                                 | Course Code  | S. N. | Course Name                        | Course Code  |
|-------|---|--------------|-------|------------------------------------|--------------|
| 1     | Introduction to Finite Element Analysis     | BTCEPE21CE7T | 5     | Contract Management                | BTCEPE25CE7T |
| 2     | Introduction to Finite Element Analysis Lab | BTCEPE22CE7P | 6     | Contract Management Lab            | BTCEPE26CE7P |
| 3     | Environmental Impact Assessment             | BTCEPE23CE7T | 7     | Railway and Bridge Engineering     | BTCEPE27CE7T |
| 4     | Environmental Impact Assessment             | BTCEPE24CE7P | 8     | Railway and Bridge Engineering Lab | BTCEPE28CE7P |

**List of Program Elective Course-V (Semester-VII) (Choose any one Course)**

| Sr. No. | Course Name                         | Course Code  |
|---------|-------------------------------------|--------------|
| 1       | Industrial Structures               | BTCEPE29CE7T |
| 2       | Air and Noise Pollution Engineering | BTCEPE30CE7T |
| 3       | Geotechnical Designs                | BTCEPE31CE7T |
| 4       | Airport & Tunnel Engineering        | BTCEPE32CE7T |

*Approved in..... 3<sup>rd</sup>*  
**Academic Council Meeting**  
**Dated:....25/07/2025**



**Scheme Semester- VIII**

| Scheme for Fourth Year B. Tech. In Civil Engineering (Semester -VIII) |  |  |                             |    |   |      |         |                   |        |    |     |                      |     |       |                 |
|---|--|--|-----------------------------|----|---|------|---------|-------------------|--------|----|-----|----------------------|-----|-------|-----------------|
| Sr No   | Course Name  | Code   | Course Plan per Week (Hrs.) |    |   |      | Credits | Theory Evaluation |        |    |     | Practical Evaluation |     | Total | ESE Time (Hrs.) |
|   |  |  | L                           | P  | T | Hrs. |         | MSE-I             | MSE-II | TA | ESE | INT                  | EXT |       |                 |
| <b>Program Core Courses (PCC)</b>                                     |  |  |                             |    |   |      |         |                   |        |    |     |                      |     |       |                 |
| 1   | Industry Internship<br>OR<br>Research Internship<br>OR<br>Entrepreneurship | BTCEII01CE8P<br>OR<br>BTCERI01CE8P<br>OR<br>BTCEEI01CE8P | 0                           | 24 | 0 | 24   | 12      | -                 | -      | -  | -   | 20                   | 80  | 100   | -               |
| 2   | Research Methodology   | BTCERM01CE8T   | 3                           | 0  | 1 | 4    | 4       | 15                | 15     | 10 | 60  | -                    | -   | 100   | 2.5             |
| <b>Multidisciplinary Minor Courses (MDM)</b>                          |  |  |                             |    |   |      |         |                   |        |    |     |                      |     |       |                 |
| 3   | Multi-Disciplinary Minor-V   | ---  | 0                           | 2  | 0 | 4    | 2       | -                 | -      | -  | -   | 50                   | -   | 50    | -               |
|   | <b>TOTAL</b>   |  | 3                           | 26 | 1 | 32   | 18      | 15                | 15     | 10 | 60  | 70                   | 80  | 250   |                 |

L: Lecture P: Practical T: Tutorial MSE: Mid Semester Exam ESE: End Semester Exam TA: Teacher Assessment INT: Internal EXT: External

Note: Suitable number of hours per week are allotted for continuous evaluation process of above subjects (Total contact hours per week = 42 Hrs.)

**For the details of MDM Courses, Refer the link given on page no.6**

*Julath...*  
 Approved in.....  
 Academic Council Meeting  
 Dated:-....25/07/2025.....