

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY  
BELAGAVI**



**Scheme of Teaching and Examinations (2026)**

**M. ARCHITECTURE in URBAN DESIGN**

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

| M ARCHITECTURE in URBAN DESIGN                   |                                              |                       |                                                                                                                     |                                                                 |                                               |             |                                                |                                    |                                                     |                    |           |           |      |    |         |             |
|--------------------------------------------------|----------------------------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------|-------------|------------------------------------------------|------------------------------------|-----------------------------------------------------|--------------------|-----------|-----------|------|----|---------|-------------|
| I SEMESTER                                       |                                              |                       |                                                                                                                     |                                                                 |                                               |             |                                                |                                    |                                                     |                    |           |           |      |    |         |             |
| Sl. No                                           | Course and Course Code                       |                       | Course Title                                                                                                        | Teaching Department (TD) and Question Paper Setting Board (PSB) | Teaching and Learning Scheme                  |             |                                                |                                    |                                                     | Examination        |           |           |      |    | Credits |             |
|                                                  |                                              |                       |                                                                                                                     |                                                                 | Classroom Instruction (CI) hours per semester |             | Laboratory Instruction (LI) hours Per semester | Term work & self-learning in hours | Teaching-Learning hours per semester = CI +LI+TW+SL | Duration in h ours | CIE Marks | SEE Marks |      |    |         | Total Marks |
|                                                  |                                              |                       |                                                                                                                     |                                                                 | L(lecture)                                    | T(tutorial) | P(practical)                                   | TW+SL                              |                                                     |                    |           | TH        | VIVA | TW |         |             |
| 1                                                | MAT/PCC                                      | 2MAUD101              | Theory of Urban Form                                                                                                |                                                                 | 42                                            | 0           | 0                                              | 48                                 | 90                                                  | 3                  | 50        | 50        |      |    | 100     | 3           |
| 2                                                | PCC                                          | 2MAUD102              | City planning process in India                                                                                      |                                                                 | 42                                            | 0           | 0                                              | 48                                 | 90                                                  | 3                  | 50        | 50        |      |    | 100     | 3           |
| 3                                                | PCC                                          | 2MAUD103              | Social theory and Urban Design                                                                                      |                                                                 | 42                                            | 0           | 0                                              | 48                                 | 90                                                  | 3                  | 50        | 50        |      |    | 100     | 3           |
| 4                                                | IPCC (Integrated Professional Core Course-I) | 2MAUD104              | UD Studio-I -Integrated with UDPT                                                                                   |                                                                 | 32                                            | 0           | 160                                            | 48                                 | 240                                                 | 10                 | 50        |           | 50   |    | 100     | 8           |
| 5                                                | PEC (Professional Elective Course-I)         | 2MAUD105x             | A. Site Planning and Ecology<br>B. Indian Urbanism<br>C. Urban land and green mapping<br>D. Indian Knowledge System |                                                                 | 42                                            | 0           | 0                                              | 48                                 | 90                                                  | 3                  | 100       |           |      |    | 100     | 3           |
| 6                                                | PEC (Professional Elective Course-II)        | 2MAUD106x             | A. GIS-I<br>B. Spatial software for UD and presentation skills<br>C. Film and the city<br>D. Urban Cyber security   |                                                                 | 42                                            | 0           | 0                                              | 48                                 | 90                                                  | 3                  | 100       |           |      |    | 100     | 3           |
| 7                                                | NCMC                                         | 1MRMI108              | Research Methodology and IPR                                                                                        |                                                                 | Online course (online.vtu.ac.in)              |             |                                                |                                    |                                                     |                    |           |           |      |    |         | PP          |
| TH-Theory Exam<br>VIVA-VIVA VOCE<br>TW-Term Work |                                              | Total690--40020060023 |                                                                                                                     |                                                                 |                                               |             |                                                |                                    |                                                     |                    |           |           |      |    |         |             |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>Professional Elective Courses (PECs):</b> Professional Elective Courses – PEC–I and PEC–II – are common to all branches of specialization. Students may choose the most appropriate elective based on their field of specialization and academic requirements. <b>Note: The number of courses listed under each PEC group may exceed four, depending on the specializations under one stream.</b></p> <p><b>Integrated Professional Core Courses (IPCC):</b> The 2MAUD104 comprises specialization-specific core courses that are integrated with a practical component, ensuring application-oriented learning aligned with industry and research needs.</p> |
|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Integrated Professional Core Course (IPCC) |                                   | Professional Elective Courses-I |                              |
|--------------------------------------------|-----------------------------------|---------------------------------|------------------------------|
| Code                                       | Title of the Course               | Code                            | Title of the Course          |
| 2MAUD104                                   | UD studio-I -integrated with UDPT | 2MAUD105A                       | Site Planning and Ecology    |
|                                            |                                   | 2MAUD105B                       | Indian urbanism              |
|                                            |                                   | 2MAUD105C                       | Urban land and green mapping |
|                                            |                                   | 2MAUD105D                       | Indian Knowledge System      |

| Professional Elective Courses-II |                                                 |
|----------------------------------|-------------------------------------------------|
| Code                             | Title of the Course                             |
| 2MAUD106A                        | GIS-I                                           |
| 2MAUD106B                        | Spatial software for UD and presentation skills |
| 2MAUD106C                        | Film and the city                               |
| 2MAUD106D                        | Urban Cyber security                            |

| M ARCHITECTURE in URBAN DESIGN                   |                           |                                                                    |                                                                                                                                        |                                                                          |                                                        |   |                                                            |                                          |                                                             |                          |           |           |       |    |         |             |
|--------------------------------------------------|---------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------|---|------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------|--------------------------|-----------|-----------|-------|----|---------|-------------|
|                                                  |                           | II SEMESTER                                                        |                                                                                                                                        |                                                                          |                                                        |   |                                                            |                                          |                                                             |                          |           |           |       |    |         |             |
| Sl<br>·<br>N<br>o                                | Course and<br>Course Code |                                                                    | Course Title                                                                                                                           | Teaching Department<br>(TD) and<br>Question Paper Setting<br>Board (PSB) | Teaching and Learning Scheme                           |   |                                                            |                                          |                                                             | Examination              |           |           |       |    | Credits |             |
|                                                  |                           |                                                                    |                                                                                                                                        |                                                                          | Classroom<br>Instruction<br>(CI) hours per<br>semester |   | Laboratory<br>Instruction<br>(LI) hours<br>Per<br>semester | Term work &<br>self-learning<br>in hours | Teaching - Learning<br>hours per semester = CI<br>+LI+TW+SL | Duration in<br>h<br>ours | CIE Marks | SEE Marks |       |    |         | Total Marks |
|                                                  |                           |                                                                    |                                                                                                                                        |                                                                          | L                                                      | T |                                                            |                                          |                                                             |                          |           | P         | TW+SL | TH |         |             |
| 1                                                | PCC/IP<br>CC              | 2MAUD201                                                           | UD Studio-2 with UDPT                                                                                                                  |                                                                          | 32                                                     | 0 | 160                                                        | 48                                       | 240                                                         | 10                       | 50        |           | 50    |    | 100     | 8           |
| 2                                                | PCC                       | 2MAUD202                                                           | Urban conservation                                                                                                                     |                                                                          | 42                                                     | 0 | 0                                                          | 48                                       | 90                                                          | 03                       | 50        | 50        |       |    | 100     | 3           |
| 3                                                | PCC                       | 2MAUD203                                                           | Contemporary theories of<br>urbanism and architecture                                                                                  |                                                                          | 42                                                     | 0 | 0                                                          | 48                                       | 90                                                          | 03                       | 50        | 50        |       |    | 100     | 3           |
| 4                                                | PCC                       | 2MAUD204                                                           | Urban governance and project<br>finance                                                                                                |                                                                          | 42                                                     | 0 | 0                                                          | 48                                       | 90                                                          | 03                       | 50        | 50        |       |    | 100     | 3           |
| 5                                                | PEC                       | 2MAUD205x<br>(Professional Elective<br>Courses-III)                | A. Urban management<br>B. Infrastructure and<br>Transportation<br>planning<br>C. Climate Response<br>Urban Design<br>D. Urban Heritage |                                                                          | 42                                                     | 0 | 0                                                          | 48                                       | 90                                                          | 03                       | 100       |           |       |    | 100     | 3           |
| 6                                                | PEC                       | 2MAUD206x(Professi<br>onal Elective Course-<br>IV)                 | A. GIS-II<br>B. Urban data Analytics<br>C. City Images and<br>Imagination<br>D. AI and Urban<br>analytics                              |                                                                          | 42                                                     | 0 | 0                                                          | 48                                       | 90                                                          | 03                       | 100       |           |       |    | 100     | 3           |
| 7                                                | PCC                       | 2MAUD207 (Minor<br>Project /Ability Skill<br>Development Project*) | Urban Design Policy and<br>Implementation                                                                                              |                                                                          | -                                                      | - | 32                                                         | 28                                       | 60                                                          | 03                       | 50        |           |       | 50 | 100     | 2           |
| TH-Theory Exam<br>VIVA-VIVA VOCE<br>TW-Term Work |                           | Total (In case of regular students)                                |                                                                                                                                        |                                                                          |                                                        |   |                                                            |                                          | 750                                                         | --                       | 450       | 250       |       |    | 700     | 25          |

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>* An Ability Enhancement Course Laboratory is a practical, skill-oriented lab course designed to strengthen students' practical abilities, professional competencies that support communication, environmental awareness, computational thinking, interdisciplinary learning, and application skills through hands-on learning experiences. The laboratory may pertain to disciplinary or interdisciplinary involving experiments, design tasks, and mini-projects aligned with current industry practices.</p> |
|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Professional Elective Courses (PECs) |                                            |           |                             |
|--------------------------------------|--------------------------------------------|-----------|-----------------------------|
| PEC-III                              |                                            | PEC-IV    |                             |
| Code                                 | Title of the Course                        | Code      | Title of the Course         |
| 2MAUD205A                            | Urban management                           | 2MAUD206A | GIS-II                      |
| 2MAUD205B                            | Infrastructure and Transportation planning | 2MAUD206B | Urban Data Analytics        |
| 2MAUD205C                            | Climate Response Urban Design              | 2MAUD206C | City Images and Imagination |
| 2MAUD205D                            | Urban Heritage                             | 2MAUD206D | AI and Urban analytics      |

## M ARCHITECTURE in URBAN DESIGN

## III SEMESTER

| S<br>I.<br>N<br>O | Course and<br>Course Code |                                                     | Course Title                                                                                                                                              | Teaching Department<br>(TD) and<br>Question Paper Setting<br>Board (PSB) | Teaching and Learning Scheme                           |   |                                                            |                                          |                                                               | Examination        |           |           |      |    | Credits |             |
|-------------------|---------------------------|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------|---|------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------|--------------------|-----------|-----------|------|----|---------|-------------|
|                   |                           |                                                     |                                                                                                                                                           |                                                                          | Classroom<br>Instruction<br>(CI) hours per<br>semester |   | Laboratory<br>Instruction<br>(LI) hours<br>Per<br>semester | Term work &<br>self-learning<br>in hours | Teaching - Learning hours<br>per semester = CI<br>+ LI+ TW+SL | Duration in h ours | CIE Marks | SEE Marks |      |    |         | Total Marks |
|                   |                           |                                                     |                                                                                                                                                           |                                                                          | L                                                      | T | P                                                          | TW+SL                                    |                                                               |                    |           | TH        | VIVA | TW |         |             |
| 1                 | IPCC                      | 2MAUD301                                            | UD STUIO-3                                                                                                                                                |                                                                          | 32                                                     | 0 | 130                                                        | 48                                       | 210                                                           | 10                 | 50        |           | 50   |    | 100     | 07          |
| 2                 | PEC                       | 2MAUD302X<br>Professional<br>Elective Course-<br>V  | A. Urban housing,<br>B. Politics of development<br>C. Regenerative Climate<br>Urbanism<br>D. Disaster Management                                          |                                                                          | 42                                                     | 0 | 0                                                          | 48                                       | 90                                                            | 03                 | 100       |           |      |    | 100     | 03          |
| 3                 | PEC                       | 2MAUD303X<br>Professional<br>Elective Course-<br>VI | A. Real estate and Urban Design<br>B. Urban Economics<br>C. Political Ecologies and<br>Environment Discourse<br>D. Computational and Parametric<br>Design |                                                                          | 42                                                     | 0 | 0                                                          | 48                                       | 90                                                            | 03                 | 100       |           |      |    | 100     | 03          |
| 4                 | PCC                       | 2MAUD304                                            | Dissertation Phase I                                                                                                                                      |                                                                          | 42                                                     | 0 | 0                                                          | 48                                       | 90                                                            | 03                 | 50        |           |      | 50 | 100     | 03          |
| 5                 | PEC                       | 2MAUD305                                            | Internship (6 weeks)                                                                                                                                      |                                                                          |                                                        |   |                                                            |                                          |                                                               |                    | 00        |           | 200  |    | 200     | 04          |
| Total             |                           |                                                     |                                                                                                                                                           |                                                                          |                                                        |   |                                                            |                                          | 480                                                           | --                 | 300       | 300       |      |    | 600     | 20          |

**Semester End Examination:** Viva-voce: The viva voce shall be conducted for a duration of 20 minutes (per student) for the subjects listed under viva voce for all the semesters  
2MAUD305 (Internship)-candidate shall undergo internship of 6-8 weeks immediately after the completion of 2<sup>nd</sup> semester examinations and before the commencement of 3<sup>rd</sup> semester coursework. The VIVA VOCE examination in the Internship shall be conducted at the end of the semester-III examination.

**2MAUD304- Dissertation Phase-I :** Generally, refers to the **first stage of a Dissertation work**, especially in the postgraduate programs. It is the initial phase where students mainly focus on:

- Identifying and finalizing the project topic
- Defining objectives and problem statement
- Conducting literature survey/review
- Preparing methodology and work plan
- Requirement analysis and feasibility study
- Initial design, modelling, or prototype planning
- Submitting synopsis and progress presentation/report

**Note on Internship for the Attention of Students and Colleges**

- Placement training conducted at the college level, whether by third-party agencies, training institutes, or internal faculty, shall not be considered as internship for a 6–8-week period.
- All students undergoing an internship, should adhere to all the guidelines, reporting protocols, and evaluation procedures prescribed by the University.
- Students must submit the certificate of completion of an internship with the period of internship clearly mentioned, from the respective company/organization.

| Professional Elective Courses (PECs) |                               |           |                                               |
|--------------------------------------|-------------------------------|-----------|-----------------------------------------------|
| PEC-V                                |                               | PEC-VI    |                                               |
| Code                                 | Title of the Course           | Code      | Title of the Course                           |
| 2MAUD302A                            | Urban Housing,                | 2MAUD303A | Real Estate and Urban Design                  |
| 2MAUD302B                            | Politics of Development       | 2MAUD303B | Urban Economics                               |
| 2MAUD302C                            | Regenerative Climate Urbanism | 2MAUD303C | Political Ecologies and Environment Discourse |
| 2MAUD302D                            | Disaster Management           | 2MAUD303D | Computational and Parametric Design           |

## M ARCHITECTURE in URBAN DESIGN

## IV SEMESTER

| S<br>I.<br>N<br>O | Course and<br>Course Code |          | Course Title          | Teaching<br>Department (TD)<br>and<br>Question Paper<br>Setting Board | Teaching and Learning Scheme                     |   |                                                            |                                           | Examination                                                 |                          |           |                    | Credits |             |
|-------------------|---------------------------|----------|-----------------------|-----------------------------------------------------------------------|--------------------------------------------------|---|------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------|--------------------------|-----------|--------------------|---------|-------------|
|                   |                           |          |                       |                                                                       | Classroom Instruction<br>(CI) hours per semester |   | Laboratory<br>Instruction<br>(LI) hours<br>Per<br>semester | Term work &<br>self -learning<br>in hours | Teaching -Learning<br>hours per semester<br>= CI +LI+ TW+SL | Duration in<br>h<br>ours | CIE Marks | SEE<br>Marks(VIVA) |         | Total Marks |
|                   |                           |          |                       |                                                                       | L                                                | T | P                                                          | TW+SL                                     |                                                             |                          |           |                    |         |             |
| 1                 | PCC                       | 2MAUD401 | Dissertation Phase II |                                                                       | 32                                               |   | 128                                                        | 200                                       | 360                                                         | 10                       | 100       | 100                | 200     | 12          |
| Total             |                           |          |                       |                                                                       |                                                  |   |                                                            |                                           | 360                                                         | --                       | 100       | 100                | 200     | 12          |

**2MAUD401 Dissertation Phase-II** is the continuation and completion stage of the project work carried out after Dissertation Phase-I. In this phase, students mainly focus on the actual execution and final outcome of the project.

The activities generally include:

- Detailed Site study and analysis
- Study conclusion and Inference
- Issues and Strategies
- Design Demonstration and implementation strategy
- Preparation of dissertation/project report
- Submission of final report (3 copy) and supporting documents

## Overview of Courses, Credits, Projects, and Internships under VTU Curriculum

### (A) Abbreviations Adopted in the Scheme of Teaching and Examinations

| Course   |                                          | General Terms |                                          | General Terms |                                                        |
|----------|------------------------------------------|---------------|------------------------------------------|---------------|--------------------------------------------------------|
| Acronyms | Expanded Form                            | Acronyms      | Expanded Form                            | Acronyms      | Expanded Form                                          |
| AEC      | Ability Enhancement Course               | AICTE         | All India Council of Technical Education | SEE           | Semester End Evaluation                                |
| ASC      | Applied Science Course                   | CCA           | Continuous Comprehensive Assessment      | SGPA          | Semester Grade Point Average                           |
| BSC      | Basic Science Course                     | CGPA          | Cumulative Grade Point Average           | SL            | Self-Learning                                          |
| HSMC     | Humanities Studies and Management Course | CI            | Classroom Instruction                    | SWAYAM        | Study Webs of Active-Learning for Young Aspiring Minds |
| IPCC     | Integrated Professional Core Course      | CIE           | Continuous Internal Evaluation           | T             | Tutorial                                               |
| NCMC     | Non-Credit Mandatory Course              | COE           | Centre for Online Education              | TW            | Term Work                                              |
| OEC      | Open Elective                            | CUL           | Cultural                                 | VTU           | Visvesvaraya                                           |
| PCC      | Professional Core Course                 | NCrF          | National Credit Framework                | VTU online    | VTU online courses                                     |
| PCCL     | Professional Core Course                 | L             | Lecture                                  | TH            | Theory Examination                                     |
| PEC      | Professional Elective                    | LI            | Laboratory Instruction                   | VIVA          | VIVA VOCE                                              |
| PE       | Physical Education                       | NPTEL         | National Programme for                   |               |                                                        |
| SEC      | Skill Enhancement                        | NSS           | National Service Scheme                  |               |                                                        |
| YOG      | Yoga                                     | P             | Practical                                |               |                                                        |
|          |                                          |               |                                          |               |                                                        |

### **(B) Academic Credit Framework in accordance with the National Credit Framework (NCrF)**

The National Credit Framework (NCrF), introduced under India's education reforms, serves as an umbrella framework for the creditisation of learning across school education, higher education, vocational education, and experiential learning.

NCrF credit levels are determined based on a combination of cumulative years of learning, the complexity of learning outcomes, and the rigor of assessment. These levels signify the degree of competence and complexity attained by the learner, progressing from foundational schooling to advanced doctoral research.

Levels 1 to 4 correspond to school education up to the 12th standard, while Levels 4.5 to 8 correspond to higher education, ranging from the undergraduate level to the Ph.D. level.

In the earlier system, credits were primarily based on contact time (lecture hours per week  $\times$  number of weeks per semester/year), assuming that learning is directly proportional to time spent in classroom instruction.

However, the NCrF adopts a comprehensive and outcome-based approach by assigning credits to all forms of learning, including, (i) Classroom teaching, (ii) Laboratory work, (iii) Projects, (iv) Internships and apprenticeships, (v) Online and blended learning, (vi) Fieldwork and community engagement, (vii) Recognition of Prior Learning (RPL), (viii) Sports and arts activities, and (ix) On-the-job training.

Credits are thus based on notional learning hours, representing the total learner effort rather than only contact hours.

This definition aligns Indian education with Global outcome-based credit systems, and international credit transfer practices [e.g., European Credit Transfer and Accumulation System (ECTS)-like frameworks].

According to NCrF, one academic year of learning is equal 1,200 notional learning hours (not a scientifically-validated law or psychological constant, but a policy design hours) and includes classroom teaching, self-study, assignments, projects, laboratory work, co-curricular and extra-curricular activities, internships, apprenticeships and other assessed learning experiences. For these 1,200 hours a student is expected to earn 40 credits, which means 1 credit corresponds to approximately 30 hours of academic learning.

Although traditional university systems often equated 1 credit with approximately 13 to 15 contact hours per semester, VTU, in alignment with NCrF, considers 14-weeks of structured academic interaction per semester with students is equivalent to approximately 30 notional hours per credit.

The learning methodologies include:

**(i) Classroom Instruction (CI):** Includes different instructional/implementation strategies, such as Lecture (L), Tutorial (T), Case method, Demonstrations, Video demonstration, Problem based learning etc., to deliver theoretical concepts within the classroom measured in Number of hours per semester.

**(ii) Laboratory Instruction (LI):** Expressed as number of hours per semester which Includes experiments/practical performances / problem-based experiences in laboratory, workshop, field or other locations using different instructional / Implementation strategies.

**(iii) Term work (TW):** Includes assignments, seminars, presentations, case studies, micro projects, field activities, industrial visits, academic preparation duration and any other student activities in Number of hours per semester.

**(iv) Self-Learning (SL):** MOOCs (SWAYAM/NPTEL/Industry certified courses), spoken tutorials, online educational resources, self-initiated projects, Learning through digital resources etc in Number of hours per semester. (If provided in curriculum structure).

VTU, in alignment with NCrF, considers 14-weeks of structured academic interaction per semester with students as equivalent to approximately 30 notional hours per credit.

Table below shows the credit structure, equivalent NCrF learning hours adopted by VTU:

| Table 7.0.1 VTU adopted NCrF credit structure |                                                  |    |                                                   |                                                             |                                                      |
|-----------------------------------------------|--------------------------------------------------|----|---------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------|
| Particulars                                   | Classroom Instruction (CI) in Hours per semester |    | Laboratory Instruction (LI) in Hours per semester | Term work (TW) and Self-Learning (SL) in Hours per semester | Total number of Teaching-Learning hours per semester |
|                                               | L                                                | T  | P                                                 | TW + SL                                                     |                                                      |
| 1 Credit theory course                        | 14                                               | -  | -                                                 | 16                                                          | 30                                                   |
| 1 Credit Practical course                     | -                                                | -  | 28                                                | 02                                                          | 30                                                   |
| 2 Credit theory course                        | 28                                               | -  | -                                                 | 32                                                          | 60                                                   |
| 3 Credit theory course                        | 42                                               | -  | -                                                 | 48                                                          | 90                                                   |
| 3 Credit theory course with Tutorial          | 28                                               | 28 | -                                                 | 34                                                          | 90                                                   |
| 4 Credit theory course                        | 56                                               | -  | -                                                 | 64                                                          | 120                                                  |
| 4 Credit theory course with Tutorial          | 42                                               | 28 | -                                                 | 50                                                          | 120                                                  |
| 4 Credit Integrated Course                    | 42                                               | -  | 28                                                | 50                                                          | 120                                                  |
| Project work                                  | -                                                | -  | -                                                 | As per the type of project                                  |                                                      |
| Internship                                    | -                                                | -  | -                                                 | As per the type of Internship                               |                                                      |
|                                               |                                                  |    |                                                   |                                                             |                                                      |

NCrF is designed to work with ABC for years, where, credits are digitally stored to accumulate, transfer, and redemption across institutions for vertical and horizontal mobility across sectors, which is essential for MEME.

### (C) Details of Courses

- (1) **Integrated Professional Core Course (IPCC):** The Integrated Professional Core Course (IPCC) refers to a core theory course that is integrated with a laboratory of the same subject. Each IPCC carries 4 credits, with Teaching–Learning hours structured (L : T : P) as either (3:0:2). The theory component of the IPCC shall be evaluated through both Continuous Internal Evaluation (CIE) and Semester End Examination (SEE). The laboratory part shall be assessed exclusively through CIE, with no SEE. However, questions derived from the laboratory part may be included in the SEE question paper to ensure comprehensive evaluation.
- (2) **Non-Credit Mandatory Courses (NCMC):** are aimed at enhancing students' knowledge, skills, and awareness beyond the core curriculum. Successful completion of the NCMC is compulsory for fulfilling the requirements of the academic program. It shall not be considered for the computation of SGPA, CGPA and vertical progression. Each student shall register for the prescribed NCMC(s) in the prescribed semester. A student who fails to qualify in the prescribed NCMC shall not be eligible for the conferment of the degree.
- (3) **Professional Elective Courses (PEC):** A professional elective course (PEC) is intended to enhance the depth and breadth of educational experience in the Masters in Architecture curriculum of the same discipline.

- (4) **Open Elective Courses (OEC):** A open elective course (OEC) is a course offered by departments other than a student's parent department. These interdepartmental /interdisciplinary courses allow students to explore disciplines beyond their core area of study. These courses are intended to promote interdisciplinary learning, broad-based education, thereby enhancing a student's overall knowledge, creativity, and employability. Registration to open electives shall be documented under the guidance of the Program Coordinator/ Advisor/Mentor/Proctor.
- (5) **Skill Enhancement Courses (SEC):** These courses are intended to develop specific practical skills and competencies that improve students' employability, technical proficiency, and professional readiness to bridge the gap between academic and industry requirements. These courses emphasize hands-on training, application of theoretical knowledge, and development of discipline-relevant and transferable skills required in industry and society, and develop entrepreneurship and start-up skills.
- (6) **Online Courses:** Online courses are educational programs delivered over the Internet through a digital platform, allowing students to access lessons, assignments, and discussions from anywhere at any time. Most online courses offer flexibility, allowing students to access materials and complete assignments on their own schedule. However, students have to pass the course within a stipulated period as per the norms of the university.
- (7) **VTU Online Courses:** VTU Online Courses are online courses offered by the Centre of Online Education (COE), Mysuru. A wide range of multidisciplinary courses is made available to learners anytime and anywhere, enabling them to earn University-prescribed credits through duly conducted proctored examinations for the award of the degree.  
NPTEL/SWAYAM courses adopted by VTU shall be offered in accordance with the NPTEL/SWAYAM course delivery framework, wherein teaching-learning is carried out through the online MOOC platform, assignments are administered periodically, and assessment is completed through a centrally conducted proctored examination as prescribed by the respective platform.
- (8) **NPTEL/SWAYAM Online Courses:** The National Programme on Technology Enhanced Learning (NPTEL)/SWAYAM (Study Webs of Active Learning for Young Aspiring Minds) are the specific Indian platforms to host national Massive Open Online Courses (MOOCs). It offers online courses on a wide range of disciplines to learners anywhere, anytime, to earn university-prescribed credits through proctored examination for the award of a degree. All NPTEL/SWAYAM courses are MOOCs, but not all MOOCs are offered on these specific Indian platforms.