

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangam, Machhe, Belagavi-590018



## Scheme of Teaching and Examinations 2026

Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS)  
(Effective from the academic year 2026-27 (27-07-2026))

| Bachelor of Architecture                                                                                       |                 |                      |                                      |              |                       |   |     |    |            |             |                   |           |              |                 |                 |         |             |
|----------------------------------------------------------------------------------------------------------------|-----------------|----------------------|--------------------------------------|--------------|-----------------------|---|-----|----|------------|-------------|-------------------|-----------|--------------|-----------------|-----------------|---------|-------------|
| Scheme of Teaching and Examinations 2026                                                                       |                 |                      |                                      |              |                       |   |     |    |            |             |                   |           |              |                 |                 |         |             |
| Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS) (Effective from the academic year 2026-27) |                 |                      |                                      |              |                       |   |     |    |            |             |                   |           |              |                 |                 |         |             |
|                                                                                                                | I SEMESTER      |                      |                                      |              |                       |   |     |    |            |             |                   |           |              |                 |                 |         |             |
| Sl. No                                                                                                         | Course Category | Course Code          | Course Title                         | TD/PSB       | Teaching and Learning |   |     |    |            | Examination |                   |           |              |                 |                 | Credits |             |
|                                                                                                                |                 |                      |                                      |              | CI                    |   | LI  |    | TW, SE& SL | # TH/S      | Duration in hours | CIE Marks | Theory Marks | Term Work Marks | Viva Voce Marks |         | Total Marks |
|                                                                                                                |                 |                      |                                      |              |                       |   |     |    |            |             |                   |           |              |                 |                 |         |             |
| 1                                                                                                              | IPCC            | 2BAT101              | Architectural Design Studio I        | Architecture | 28                    | - | 112 | _  | 160        | 300         | 10                | 100       | _            | _               | 100             | 200     | 10          |
| 2                                                                                                              | PCC             | 2BAT102              | Materials and Construction I         | Architecture | 28                    | - | 42  | _  | 80         | 150         | 5                 | 100       | 100          | _               | _               | 200     | 5           |
| 3                                                                                                              | PCC             | 2BAT103              | History of Architecture I            | Architecture | 42                    | - | _   | -  | 48         | 90          | 3                 | 100       | 100          |                 | _               | 200     | 3           |
| 4                                                                                                              | PCC/SEC         | 2BAT104              | Graphics & Visual Representation     | Architecture | 14                    | - | 42  | -  | 64         | 120         | 4                 | 100       | 100          |                 | _               | 200     | 4           |
| 5                                                                                                              | PCCL            | 2BAT105              | Digital Tools I                      | Architecture | 14                    | - | -   | 28 | 48         | 90          | 3                 | 100       | _            | _               | _               | 100     | 3           |
| 6                                                                                                              | NCMC            | 2BAT106/21ENG208     | Communicative English                | Architecture | 14                    | - | -   | -  | 0          | 0           | 1                 | 50        | _            | _               | _               | 50      | PP          |
| 7                                                                                                              | NCMC            | 2BAT107A<br>2BAT107B | Sanskritic Kannada<br>Balake Kannada | Architecture | 14                    | _ | -   | _  | 0          | 0           | 1                 | 50        | _            | _               | _               | 50      | PP          |
| Total                                                                                                          |                 |                      |                                      |              |                       |   |     |    | 400        | 750         | 27                | 600       | 300          |                 | 100             | 1000    | 25          |

NOTE: The first Semester Design studio will also include the principles of design. As per the current credit and hour ratio, the self-learning component is more than the teaching component. If it should change then a studio component of 1 credit can be added thereby making the math more balanced.

IPCC - Integrated Professional Core Course

PCC- Professional Core Courses

PCCL - Professional Core Course Laboratory

SEC - Skill Enhancement Course

NCMC- Non-Credit Mandatory Course

# TH/S- Total Hours per Semester, TW & SL- Term Work & Self Learning, TD/PSB -Teaching Department (TD) and Question Paper Setting Board (PSB), TW, SE & SL -Term Work, Seminar and Self Learning, L-Lecture, T-Tutorial, S-Studio, P-Practical, SL- Self Learning- Term work + Seminar + Self study  
[As per CoA L- 1h/per week=1 credit, T-1h/week=1 credit, S/P- 1h/week=1 credit]

| Bachelor of Architecture                                                                                       |                 |             |                                                             |              |                       |   |     |    |            |      |             |           |              |                 |                 |             |         |
|----------------------------------------------------------------------------------------------------------------|-----------------|-------------|-------------------------------------------------------------|--------------|-----------------------|---|-----|----|------------|------|-------------|-----------|--------------|-----------------|-----------------|-------------|---------|
| Scheme of Teaching and Examinations 2026                                                                       |                 |             |                                                             |              |                       |   |     |    |            |      |             |           |              |                 |                 |             |         |
| Outcome-Based Education (OBE) and Choice-Based Credit System (CBCS) (Effective from the academic year 2026-27) |                 |             |                                                             |              |                       |   |     |    |            |      |             |           |              |                 |                 |             |         |
|                                                                                                                | II SEMESTER     |             |                                                             |              |                       |   |     |    |            |      |             |           |              |                 |                 |             |         |
| Sl. No                                                                                                         | Course Category | Course Code | Course Title                                                | TD/PSB       | Teaching and Learning |   |     |    |            |      | Examination |           |              |                 |                 |             | Credits |
|                                                                                                                |                 |             |                                                             |              | CI                    |   | LI  |    | TW, SE& SL | TH/S | Hrs/ Wk     | CIE Marks | Theory Marks | Term Work Marks | Viva Voce Marks | Total Marks |         |
|                                                                                                                |                 |             |                                                             |              | L                     | T | S   | P  | SL         |      |             |           |              |                 |                 |             |         |
| 1                                                                                                              | IPCC            | 2BAT201     | Architectural Design-II(Enclosure and Emvironment)          | Architecture | 28                    | – | 112 | –  | 160        | 300  | 10          | 100       | –            | –               | 100             | 200         | 10      |
| 2                                                                                                              | PCC             | 2BAT202     | Materials & Construction II/Tectonic Construction System -I | Architecture | 28                    | – | 42  | –  | 80         | 150  | 5           | 100       | 100          | –               | –               | 200         | 5       |
| 3                                                                                                              | PCC             | 2BAT203     | History of Architecture II                                  | Architecture | 42                    | - | –   | –  | 48         | 90   | 3           | 100       | 100          | –               | –               | 200         | 3       |
| 4                                                                                                              | PCC             | 2BAT204     | Building Structures I: Forces & Form                        | Architecture | 42                    | – | –   | –  | 48         | 90   | 3           | 50        | 50           | –               | –               | 100         | 3       |
| 5                                                                                                              | PCCL            | 2BAT205     | Digital Tools II                                            | Architecture | 14                    | – | –   | 28 | 48         | 90   | 3           | 100       | –            | –               | –               | 100         | 3       |
| 6                                                                                                              | BSAC            | 2BAT206     | Site Survey and Analysis                                    | Architecture | 14                    | – | 28  | –  | 48         | 90   | 3           | 50        | –            | –               | 50              | 100         | 3       |
| 7                                                                                                              | NCMC            | 2BAT207     | Indian Constitution                                         | Architecture | 14                    | – | -   | –  | 0          | 0    | 1           | 50        | –            | –               | –               | 50          | PP      |
| 8                                                                                                              | HSMC            | 2BAT208     | Traffic Awareness & Safety                                  | Architecture | 14                    | – | –   | –  | 0          | 0    | 1           | 50        | –            | –               | –               | 50          | PP      |
| Total                                                                                                          |                 |             |                                                             |              |                       |   |     |    | 432        | 810  | 29          | 700       | 250          |                 | 150             | 1000        | 27      |

NOTE: The Second Semester Design studio will also include the Vitruvian principles of design. HOA needs to be checked for SL and L parity

IPCC - Integrated Professional Core Course

PCC- Professional Core Courses

PCCL - Professional Core Course Laboratory

SEC - Skill Enhancement Course

NCMC- Non-Credit Mandatory Course

HSMC - Humanity Sciences and Management Courses

BSAE- Building Science & Applied Engineering Courses.

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V1/SBH/ **Overview of Courses, Credits, Projects, and Internships under VTU Curriculum-Details are listed on page number 11(onwards)**

# TH/S- Total Hours per Semester, TW & SL- Term Work & Self Learning, TD/PSB -Teaching Department (TD) and Question Paper Setting Board (PSB), TW, SE & SL -Term Work, Seminar and Self Learning, L-Lecture, T-Tutorial, S-Studio, P-Practical, SL- Self Learning- Term work + Seminar + Self study. [As per CoA L- 1h/per week=1 credit, T-1h/week=1 credit, S/P- 1h/week=1 credit]

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

### I. Abbreviations used in the Scheme of Teaching and Examinations

| Abbreviations | Expanded Form of the Abbreviations                            |
|---------------|---------------------------------------------------------------|
| <b>COA</b>    | <b>Council Of Architecture</b>                                |
| <b>AICTE</b>  | <b>All India Council of Technical Education</b>               |
| <b>NCrF</b>   | <b>National Credit Framework</b>                              |
| <b>VTU</b>    | <b>Visvesvaraya Technological University</b>                  |
| AEC           | Ability Enhancement Course                                    |
| ASC           | Applied Science Course                                        |
| BSC           | Basic Science Course                                          |
| CIE           | Continuous Internal Evaluation                                |
| CI            | Classroom Instruction                                         |
| CCA           | Continuous Comprehensive Assessment                           |
| CGPA          | Cumulative Grade Point Average                                |
| CUL           | Cultural                                                      |
| COE           | Centre for Online Education                                   |
| HSMC          | Humanities Studies and Management Course                      |
| IPCC          | Integrated Professional Core Course                           |
| L             | Lecture                                                       |
| NCMC          | Non-Credit Mandatory Course                                   |
| NSS           | National Service Scheme                                       |
| NPTEL         | National Programme for Technical Enhanced Learning            |
| OEC           | Open Elective (Interdepartmental or interdisciplinary) Course |
| PCC           | Professional Core Course                                      |
| PCCL          | Professional Core Course Laboratory                           |

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|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| PEC               | Professional Elective Courses                                     |
| PE                | Physical Education                                                |
| P                 | Practical                                                         |
| PP                | Pass                                                              |
| SEC               | Skill Enhancement Courses                                         |
| SEE               | Semester End Evaluation                                           |
| SL                | Self-Learning                                                     |
| SGPA              | Semester Grade Point Average                                      |
| SWAYAM            | Study Webs of Active-Learning for Young Aspiring Minds            |
| TW                | Term Work                                                         |
| T                 | Tutorial                                                          |
| VTU online Course | VTU online courses offered by Centre for Online Education, Mysuru |
| YOG               | Yoga                                                              |

## II. Credit Representation

1-hour Lecture (L) per week =1Credit

1-hours Practical [P] per week =1Credit

1-hours Studio (S) per week =1Credit

| Teaching & Learning Scheme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>As per the new National Credit Framework (NCrF), 30 hours of learning of a student is considered equivalent to 1 credit. A semester is considered as a 14-week period of academic interaction with students. The learning components are categorized as follows:</b></p> <ol style="list-style-type: none"> <li><b>Classroom Instruction (CI):</b> Includes different instructional / implementation strategies i.e. 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.</li> <li><b>Studio Instruction (SI):</b> Expressed as number of hours per semester which Includes studio, workshops, field or site visits using different tools and strategies</li> <li><b>Term work (TW):</b> Includes assignments, seminars, presentations, case studies, micro projects, field activities, industrial visits, academic</li> </ol> |

preparation duration and any other student activities in Number of hours per semester.

4. **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).

|           | <b>Course Details</b>                                                                                      |                                                                                                                   |
|-----------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>1.</b> | <b>One Credit Theory Courses:</b>                                                                          |                                                                                                                   |
|           | Teaching-Learning sessions in a semester                                                                   | 14 hours                                                                                                          |
|           | Examination pattern for CIE and SEE                                                                        | Multiple Choice Question (MCQ)                                                                                    |
|           | Teaching hours per week - L:T:P                                                                            | 1:0:0                                                                                                             |
| <b>2.</b> | <b>Two Credit Theory Courses:</b>                                                                          |                                                                                                                   |
|           | Teaching-Learning Sessions in a semester                                                                   | 28 hours                                                                                                          |
|           | Examination pattern for CIE and SEE                                                                        | Descriptive                                                                                                       |
|           | Teaching hours per week - L:T:P                                                                            | 2:0:0                                                                                                             |
| <b>3.</b> | <b>Three Credit ESC/ETC/PCC/PEC/OEC Courses:</b>                                                           |                                                                                                                   |
|           | Teaching-Learning Sessions in a semester                                                                   | 42 hours                                                                                                          |
|           | Examination pattern for CIE and SEE                                                                        | Descriptive                                                                                                       |
|           | Teaching hours per week for theory courses - L:T:P                                                         | 3:0:0                                                                                                             |
| <b>4.</b> | <b>Four Credit Program Core Courses (PCC):</b>                                                             |                                                                                                                   |
|           | Teaching-Learning Sessions in a semester                                                                   | 56 hours                                                                                                          |
|           | Examination pattern for CIE and SEE                                                                        | Descriptive                                                                                                       |
|           | Teaching hours per week for theory courses - L:T:P                                                         | 4:0:0                                                                                                             |
| <b>5.</b> | <b>Ten/Fifteen/Eighteen/Twenty Credit Integrated Professional Core Courses (IPCC):</b>                     |                                                                                                                   |
|           | Teaching-Learning Sessions in a semester<br>(Teaching sessions: 28 and 112/42 and 168/42 and 210/20 hours) | 140/210/252/280 hours<br>Depending on the credit. Each studio will have either a two or three hour theory/lecture |

|  |                                     |                                                  |
|--|-------------------------------------|--------------------------------------------------|
|  |                                     | component and the remaining as studio component. |
|  | Examination pattern for CIE and SEE | Descriptive                                      |
|  | Practical part of examination       | CIE (No SEE).                                    |
|  | Teaching hours per week - L: T: P   | 3: 0: 2                                          |

### III. Details of Courses

- (1) Integrated Professional Core Course (IPCC):** The Integrated Professional Core Course (IPCC) refers to a core studio course that is integrated with a theory subject. Each IPCC carries 10 credits until 7<sup>th</sup> semester and 15 credits in the 8<sup>th</sup> semester, with Teaching–Learning hours structured (L : T : P) as either (2:0:8). The theory component of the IPCC shall be evaluated through Continuous Internal Evaluation (CIE) only. The studio part shall be assessed through CIE and SEE.
- (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 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) Ability Enhancement Course Laboratory (AEC):** An Ability Enhancement Course is a practical, skill-oriented 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.
- (6) 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.
- (7) 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.
- (8) 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.
- (9) VTU Online Courses:** VTU Online courses are online courses offered by Centre of Online Education (COE) Mysuru. A wide range of multidisciplinary courses are available to learners anywhere, anytime to earn university-prescribed credits through proctored examination for the award of a degree.

#### IV. National Service Scheme / Physical Education / Yoga (NSS / PE / YOG): [NCMC](#)

All students are required to register for any one of the following courses; National Service Scheme (NSS), Physical Education (PE) (Sports and Athletics), or Yoga (YOG)—with the respective course coordinator during the first week of the sixth semester.

- Colleges shall submit Continuous Internal Evaluation (CIE) marks based on the activities completed by students under the selected course.
- Successful completion of the registered course / or courses along with the required CIE score is mandatory for the award of the degree.
- Institutions must ensure that events are appropriately scheduled and reflected in the semester-wise calendar for sports, athletics, NSS, and Yoga activities.

These courses shall not be considered for the calculation of SGPA or CGPA and for vertical progression. However, completion of course(s) is compulsory for degree eligibility.

#### V. **Professional Training/Internship**

Professional Training refers to the position of a student as trainee or a temporary (or unconfirmed) employee, who works in an organization, with or without pay, in order to gain work experience or satisfy requirements for a qualification. It is a structured, supervised professional experience in an industry, research organization, or community setting. Students taking up internship may be with or without stipend.

Internships play a vital role in bridging the gap between theoretical education and professional practice. In general, architectural internships serve as a crucial component of professional education by providing experiential learning, industry readiness, and holistic skill development, ultimately producing competent architects. Apart from these, it develops professional ethics, work culture awareness and communication skills.

1. Practical Training shall be undergone during 9th and/or 10th semester of the Architecture Degree course for a period of six months or one semester in the office of an architect or architecture, interiors, landscape, urban design & planning firms or an organization operating in an allied field of practice or research. The work involved would be orientation under an architect that would include

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the process of development of conceptual ideas, presentation skills, involvement in office discussions, client meetings, development of the concepts into working drawings, tendering procedure, site supervision during execution and coordination with the agencies involved in the construction process and to facilitate the understanding of the evolution of an architectural project from design to execution. Duly approved by the institution, under mentorship of an architect having experience of at least 5 years

2. The practical training shall be supervised and evaluated through periodic assessment by the mentoring architect and end semester examination (viva voice) as part of curricular studies.
3. Training in Foreign Country shall be done under the Registered Architect of that Country and to be approved and monitored by the Head of the University or Institution.

#### **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.
- The official engagement period of 16-week for students selected/recruited by an office/ firm/ organization only at their premises under the supervision of the architect, shall be considered as an internship.
- Students and colleges/institutions shall follow all the guidelines and procedures of the office/firm/organization and the University's Internship Guidelines, and complete the internship within a period that matches with the VTU Calander and examination timetable.
- The assigned institution faculty mentor/ coordinator/guide should monitor the student's progress, and document offer letters, training reports, attendance, and evaluations for awarding academic credits.
- 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.

#### **Option A: IX Semester Professional Training /Internship in Research Organizations or Allied fields / International Exchange**

- To ensure enhanced exposure IX semester students can undergo Professional training in Research Organizations or Allied fields or international Exchange.

Some of the common types of internships that can be taken up in the 9<sup>th</sup> semester by institutions that opted for Option A are as follows:

- Professional Internship:** Carried out in the architecture, interiors, landscape, urban design & planning firms. The topic involved may be designing/design development, drafting/drawing preparation, managerial, execution, live projects, or innovative activities.
  - Research Internship:** Carried out at universities, research labs, or R and D departments or organisations. The internship may involve literature review, data analysis, and experimental work leading to publications, prototypes, technical reports or innovations. The research internship may induce students to plan for higher studies or academic careers.
  - Technical Internship:** Carried out in allied service sectors such as structural, Mechanical, Engineering & Plumbing (MEP) systems, Simulation and building energy modelling.
  - Government Internship:** Ministries, public sector units, or civic bodies offer such internships in policy research, administrative tasks, or public service projects. This internship is for students interested in governance or public administration.
- International exchange is a program in which students study at host institutes for a period of 16 weeks & partner institution sends their students to parent institution to participate in the semester study.
  - To promote diverse architectural practise & design culture architecture students fulfilling the eligibility criteria can undergo exchange program with international universities partnered by the parent college. The parent college to identify international universities for student exchange, sign an academic partnership/MoU & facilitate the program. eligibility for a student to undergo international exchange. Minimum CGPA of 6.5 and a strong academic progression.
  - The application process will begin one semester prior to the exchange semester.
  - The electives are pre-mapped to match the parent VTU credit scheme.

- After completing 16 weeks of student exchange course study at the partnering institution students have to submit the design studio portfolio, a digital logbook/journal and a final jury presentation.

#### VI. **Option B: Advanced Studio Project/ Practice Studio.**

##### **Advanced Studio**

A settlement-scale design studio that addresses planning and design at the neighborhood, town, or urban scale. Students are expected to use advanced digital tools such as:

- Rhino (3D modeling)
- Grasshopper (parametric design)
- GIS (Geographic Information Systems)
- Environmental simulation software (e.g., Ecotect, Ladybug Tools, ClimateStudio, ENVI-met)

The focus is on developing advanced analytical and computational design skills.

**OR**

##### **Practice Studio**

A real-time, client-based project that simulates professional architectural practice. The studio should include:

- Direct interaction with a client
- Site visits and field documentation
- Design development based on client requirements
- Material selection
- Cost estimation and budgeting
- Exposure to professional workflows and project execution

The focus is on practical experience and industry readiness.

