



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ
ವಿಟಿಯು ಅಧಿನಿಯಮ ೧೯೯೪ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯವಿಶ್ವವಿದ್ಯಾಲಯ
VISVESVARAYA TECHNOLOGICAL UNIVERSITY
State University of Government of Karnataka Established as per the VTU Act, 1994 "JnanaSangama" Belagavi-590018, Karnataka, India



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REF: VTU/BGM/BOS/1054/1-2 sem Scheme /2026-27/ 3218

DATE: 18 SEP 2026

CIRCULAR

Subject: PSC and PSCL selection for Interdisciplinary Programme- Regarding
Reference: Quarries from the colleges and students
Chairperson BoS in Interdisciplinary programme, approval dated: 13.09.2026
The Dean Faculty of Engineering, VTU Belagavi approval dated: 14.09.2026
The Hon'ble Vice-Chancellor's approval Dated: 16.09.2026

Based on the queries received from students and colleges, the following points have been clarified.

"Students of **Interdisciplinary** Programmes may choose **Professional Specific Courses (PSC)** and **Professional Specific Course Laboratories (PSCL)** from the relevant engineering streams, namely Mechanical Engineering, Electronics and Communication Engineering, and/or Computer Science and Engineering, as applicable to their programme.

The selection shall be as per the approved scheme and curriculum of the respective programme and subject to the availability of courses/laboratories in the concerned department." The Coordinator/Mentor/Class Teacher shall guide and advise the students properly regarding the selection of Professional Specific Courses (PSC) and Professional Specific Laboratories (PSCL).

Accordingly, the Principals of all Engineering Colleges are hereby requested to bring the contents of this circular, along with the enclosed scheme, to the notice of all concerned for information and necessary action.

Encl: Scheme (1-2 semesters).

Rampure/18/09/26
REGISTRAR

To:

1. The Principals of All affiliated Engineering Colleges (Constituent / Non-Autonomous) under the ambit of the university
2. The Directors of the School of Architecture, Planning and Design under the ambit of the university.
3. The Chairpersons/ Programme coordinators of university departments at Kalaburgi, Belagavi, Mysuru and Belagavi.

Copy to:

1. Hon'ble Vice Chancellor through the Secretary to VC, VTU, Belagavi - for kind information
2. The Registrar (Eval.), VTU, Belagavi for information and needful
3. The Regional Directors (I/C) of all the Regional Offices of VTU - for circulation
4. The Director (I/C), ITISMU, Belagavi - with request to upload the circular on VTU website
5. The Special officer, Town Planning, Regional Office Bengaluru for information and needful
6. The Special Officers and case workers (Concerned) of Academic Section, VTU, Belagavi
7. The office copy

Applied Mathematics-II Courses					Applied Physics Courses				
Code	Title	L	T	P	Code	Title	L	T	P
1BMATC201	Differential Calculus and Numerical Methods: CV stream	3	2	0	1BPHYC202	Physics for Sustainable Structural Systems (CV stream)	3	0	2
1BMATM201	Multivariable Calculus and Numerical Methods: ME stream	3	2	0	1BPHYM202	Physics of Materials (Mech stream)	3	0	2
1BMATE201	Calculus, Laplace Transform, and Numerical Techniques: EEE stream	3	2	0	1BPHEC202	Quantum Physics and Electronic Sensors (ECE stream)	3	0	2
1BMATS201	Numerical Methods: CSE Stream	3	2	0	1BPHEE202	Physics of Electrical Engineering Materials (EEE Stream –only for EEE Students)	3	0	2
					1BPHYS202	Quantum Physics and Applications (CSE stream)	3	0	2
Programme Specific Courses (PSC)					Programme Specific Course Labs (PSCL)				
1BCIV205	Engineering Mechanics	3	0	0	1BMEML207	Mechanics and Materials Lab	0	0	2
1BEME205	Elements of Mechanical Engineering	3	0	0	1BEMEL207	Elements of Mechanical Engineering Lab	0	0	2
1BBEE205	Basics of Electrical Engineering	3	0	0	1BBEEL207	Basic Electrical Lab	0	0	2
1BECE205	Fundamentals of Electronics & Communication Engineering	3	0	0	1BECEL207	Fundamentals of Electronics & Communication Engineering Lab	0	0	2
1BEIT205	Programming in C	3	0	0	1BPOPL207	C Programming Lab	0	0	2
1BEBT205	Elements of Biotechnology and Biomimetics	3	0	0	1BSSAL207	Soil Science and Agronomy Field Lab	0	0	2
1BSSA205	Principles of Soil Science and Agronomy	3	0	0	1BEBTL207	Elements of Biotechnology Lab	0	0	2
1BEAE205	Elements of Aeronautical Engineering	3	0	0	1BEAEL207	Elements of Aeronautical Engineering Lab	0	0	2
1BECHE205	Elements of Chemical Engineering	3	0	0	1BECHEL207	Elements of Chemical Engineering Lab	0	0	2
1BETX205	Technology of Textile	3	0	0	1BETXL207	Technology of Textile Lab	0	0	2
1BCTP205	Introduction to Town Planning	3	0	0	1BCTP207	Planning Communication	0	0	2
Engineering Science Courses-II (ESC-II)					Computer-Aided Engineering Drawing Courses				
Code	Title	L	T	P	Code	Title	L	T	P
1BESC204A	Building Sciences & Mechanics	3	0	0	1BCEDC203	Computer-Aided Engineering Drawing for CV Stream	2	0	2
1BESC204B	Introduction to Electrical Engineering	3	0	0	1BCEDM203	Computer-Aided Engineering Drawing for ME stream	2	0	2
1BESC204C	Introduction to Electronics & Communication Engineering	3	0	0	1BCEDEEC203	Computer-Aided Engineering Drawing for ECE stream	2	0	2
1BESC204D	Introduction to Mechanical Engineering	3	0	0	1BCEDE203	Computer-Aided Engineering Drawing for EEE stream (Only for EEE Students)	2	0	2
1BESC204E	Essentials of Information Technology	3	0	0	1BCEDS203	Computer-Aided Engineering Drawing for CSE stream	2	0	2
Integrated courses (IC), combining theory with practical components. (i) Theory sessions will be conducted for 3 hours per week, while the practical sessions will be conducted for 2 hours per week. (ii) Theory component shall be evaluated through both Continuous Internal Evaluation (CIE) and Semester End Examination (SEE). (iii) The practical component will be assessed only through CIE.									

The Mathematics/Physics courses shall be taught by a single faculty member per session, with no sharing of the course (subject) modules. The tutorial sessions for the mathematics course shall be conducted in a laboratory environment using Maxima/Mathematica/ Python/Scilab/MATLAB software to enhance computational understanding and application skills.

Students admitted to a specific engineering stream are required to select and successfully complete **Applied Mathematics-I** and **Applied Physics courses** that are aligned to their program stream.

Programme Specific Courses (PSC): Programme Specific Courses (PSC) are a set of core courses tailored to a specific branch or discipline of engineering in which a student is enrolled (e.g., Mechanical Engineering, Computer Science, Civil Engineering, etc.). These courses are intended to provide students with in-depth knowledge and specialized skills essential for professional competence in the chosen field.

Students must select and complete the course from this group that **corresponds to their admitted program stream.**

Similarly, students are also required to choose and pass laboratory courses that are specific to their stream from the **Programme Specific Courses Laboratory (PSCL)** group.

Interdisciplinary Programmes – PSC, PSCL Selection:

Students of Interdisciplinary Programmes may choose Programme Specific Courses (PSC) and Programme Specific Course Laboratories (PSCL) from the relevant engineering streams, namely Mechanical Engineering, Electronics and Communication Engineering, and/or Computer Science and Engineering, as applicable to their programme. The selection shall be as per the approved scheme and curriculum of the respective programme and subject to the availability of courses/laboratories in the concerned department.

Computer-Aided Engineering Drawing: The courses under this category are stream-specific. Students must select and complete the course that corresponds to their admitted engineering stream.

Engineering Sciences Courses-II (ESC-II): These courses are designed to broaden the technical knowledge of students beyond their core area of study. These courses enable students to gain a foundational understanding of engineering principles from other disciplines. Students are required to select and complete a course that does not belong to their admitted program /stream. Students should select a course other than that was selected under ESC-I and other than course not belonging to their stream.

For the course **Interdisciplinary Project (BPRJ259)**, it is mandatory to form a team comprising students from multiple engineering disciplines. For example, a project team may include students from Mechanical Engineering, Electronics and Communication Engineering (ECE), and Computer Science and Engineering (CSE), working collaboratively to design and implement the project.



Applied Mathematics-I Courses					Applied Physics Courses				
Code	Title	L	T	P	Code	Title	L	T	P
1BMATC101	Differential Calculus and Linear Algebra: CV Stream	3	2	0	1BPHYC102	Physics for Sustainable Structural Systems (CV stream)	3	0	2
1BMATM101	Differential Calculus and Linear Algebra: ME Stream	3	2	0	1BPHYM102	Physics of Materials (Mech stream)	3	0	2
1BMATE101	Differential Calculus and Linear Algebra: EEE stream	3	2	0	1BPHEC102	Quantum Physics and Electronics Sensors (ECE stream)	3	0	2
1BMATS101	Calculus and Linear Algebra: CSE Stream	3	2	0	1BPHEE102	Physics of Electrical Engineering Materials (EEE stream-only for EEE students)	3	0	2
					1BPHYS102	Quantum Physics and Applications (CSE stream)	3	0	2
Computer-Aided Engineering Drawing Courses					Engineering Science Courses-I(ESC-I)				
1BCEDC103	Computer-Aided Engineering Drawing for CV Stream	2	0	2	1BESC104A	Building Sciences and Mechanics	3	0	0
1BCEDM103	Computer-Aided Engineering Drawing for ME stream	2	0	2	1BESC104B	Introduction to Electrical Engineering	3	0	0
1BCEDEC103	Computer-Aided Engineering Drawing for ECE stream	2	0	2	1BESC104C	Introduction to Electronics & Communication Engineering	3	0	0
1BCEDE103	Computer-Aided Engineering Drawing for EEE stream (only for EEE students)	2	0	2	1BESC104D	Introduction to Mechanical Engineering	3	0	0
1BCEDS103	Computer-Aided Engineering Drawing for CSE stream				1BESC104E	Essentials of Information Technology	3	0	0
Programme Specific Courses (PSC)					Programme-Specific Course Labs (PSCL)				
1BCIV105	Engineering Mechanics	3	0	0	1BMEML107	Mechanics and Materials Lab	0	0	2
1BBEE105	Basics of Electrical Engineering	3	0	0	1BBEEL107	Basic Electrical Lab	0	0	2
1BECE105	Fundamentals of Electronics & Communication Engineering	3	0	0	1BECEL107	Fundamentals of Electronics & Communication Engineering Lab	0	0	2
1BEME105	Elements of Mechanical Engineering	3	0	0	1BEMEL107	Elements of Mechanical Engineering Lab	0	0	2
1BEIT105	Programming in C	3	0	0	1BPOPL107	C Programming Lab	0	0	2
1EBET105	Elements of Biotechnology and Biomimetics	3	0	0	1EBETL107	Elements of Biotechnology Lab	0	0	2
1BSSA105	Principles of Soil Science and Agronomy	3	0	0	1BSSAL107	Soil Science and Agronomy Field Lab	0	0	2
1BEAE105	Elements of Aeronautical Engineering	3	0	0	1BEAEL107	Elements of Aeronautica Engineering Lab	0	0	2
1BECHE105	Elements of Chemical Engineering	3	0	0	1BECHEL107	Elements of Chemical Engineering Lab	0	0	2
1BETX105	Technology of Textile	3	0	0	1BETEXL107	Technology of Textile Lab	0	0	2
1BCTP105	Introduction to Town Planning	3	0	0	1BCTP107	Planning Communication	0	0	2
Integrated courses (IC), combining theory with practical components. (i) Theory sessions shall be conducted for 3 hours per week, while the practical sessions shall be conducted for 2 hours per week. (ii) Theory components shall be evaluated through both Continuous Internal Evaluation (CIE) and Semester End Examination (SEE). (iii) The practical component shall be assessed only through CIE.									
The Mathematics/Physics courses shall be taught by a single faculty member per session, with no sharing of the course (subject) modules.									

The **tutorial sessions** for the **mathematics course** shall be conducted in the laboratory environment using **Maxima/Mathematica/ Python/Scilab/MATLAB software** to enhance computational understanding and application skills (one hour for problem solving and one hour laboratory session).

All students admitted to the engineering program have to complete **Applied Mathematics-I and Applied Mathematics-II** in I and II semesters by selecting the courses prescribed for their stream, viz. CV, ME, EEE or CSE, under the heading Mathematics –I and Mathematics-II.

Those who have completed the physics course under the heading Applied Physics in I semester have to select the prescribed stream wise chemistry course under the heading Applied chemistry during II semester.

Programme Specific Courses (PSC): Programme Specific Courses (PSC) are a set of core courses tailored to a specific branch or discipline of engineering in which a student is enrolled (e.g., Mechanical Engineering, Computer Science, Civil Engineering, etc.). These courses are intended to provide students with in-depth knowledge and specialized skills essential for professional competence in the chosen field. Students must select and complete the course from this group that **corresponds to their admitted program stream**. Similarly, students are also required to choose and pass laboratory courses that are specific to their stream from the **Programme Specific Courses Laboratory (PSCL) group**.

Interdisciplinary Programmes – PSC, PSCL Selection:

Students of Interdisciplinary Programmes may choose Programme Specific Courses (PSC) and Programme Specific Course Laboratories (PSCL) from the relevant engineering streams, namely Mechanical Engineering, Electronics and Communication Engineering, and/or Computer Science and Engineering, as applicable to their programme. The selection shall be as per the approved scheme and curriculum of the respective programme and subject to the availability of courses/laboratories in the concerned department.

Engineering Sciences Courses-I(ESC-I): These courses are designed to broaden the technical knowledge of students beyond their core area of study. These courses enable students to gain a foundational understanding of engineering principles from other stream courses. Students are required to select and complete two courses that are not belong to their admitted program /stream. For example, a student admitted to the any programme of the Civil Engineering /Civil Engineering stream should not select Introduction to Building Sciences but any other two. One course shall be selected under ESC-I and another course under ESC-II. The two courses must be different from the other.

Computer-Aided Engineering Drawing: The courses under this category are stream-specific. Students must select and complete the course that corresponds to their admitted engineering stream.

The **Student Induction Programme (SIP)**, initiated by the All India Council for Technical Education (AICTE), is designed to help newly admitted students in technical institutions transition smoothly into the higher education environment. It aims to familiarize students with the institutional culture, foster connections with peers and faculty, and provide a foundation for holistic learning. Activities under SIP may include Physical Activities, Creative Arts, Universal Human Values, Literary Events, Proficiency Modules. Lectures shall be by Eminent Personalities, Local Area Visits, Department/Branch Familiarization, and Innovation-related sessions.

The first year of the Engineering programmes is composed of I semester, II semester and Summer Semester. SIP activities shall be scheduled in the afternoon sessions during the first week of class commencement of I and II semesters only.

The specific programmes to be conducted will be notified separately by the University via the academic calendar or through a separate notification.

Sl No	Stream	UG Programmes under the stream with code
1	Civil Engineering Stream (CV)	(1) Civil engineering (CV), (2) Mining Engineering (MI)
2	Mechanical Engineering Stream (ME)	(1)Aeronautical Engineering (AE), (2)Aerospace Engineering (AS),(3) Agricultural Engineering (AG),(4)Automation and Robotics (AR), (5)Automobile Engineering (AU), (6)Chemical Engineering (CH), (7) Industrial & Production Engineering (IP), (8)Industrial Engineering & Management (IM), (9) Manufacturing Science and Engineering (MS), (10) Marine Engineering (MR), (11) Mechanical & Smart Manufacturing (MM), (12) Mechanical Engineering (ME), (13)Mechatronics (MT), (14) Petrochem Engineering (PC), (15)Robotics & Automation (RA),(16) Robotics and Artificial Intelligence (RI),(17)Silk Technology (ST), (18) Textile Technology (TX),(19)Energy Engineering (ER),(20) Smart Agritech (SA).