# ವಿಶ್ವೇಶ್ವರಯ್ಯತಾಂತ್ರಿಕವಿಶ್ವವಿದ್ಯಾಲಯ

ವಿಟಿಯುಅಧಿನಿಯಮೆ೧೯೯೪" ರಅಡಿಯಲ್ಲಿಕರ್ನಾಟಕಸರ್ಕಾರದಿಂದಸ್ಥಾಪಿತವಾದರಾಜ್ಯವಿಶ್ವವಿದ್ಯಾಲಯ

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

State University of Government of Karnataka Established as per the VTU Act, 1994"JnanaSangama" Belagavi-590018, Karnataka, India

**Prof. B. E. Rangaswamy, Ph.D**
REGISTRAR

Phone: (0831) 2498100
Fax: (0831) 2405467

REF: VTU/BGM/ACA/BOS/2023-24/ 3046

DATE: 19 SEP 2023

## NOTIFICATION

| | |
|---|---|
| **Subject:** | **Amended Regulations** Governing Award of Minor at B.E./B.Tech. DegreePrograms regarding… |
| **Reference:** | 173rd EC Proceedings no. 2.2.1. dated 31.07.2023 |

Pursuant tothe aforesaid Executive Council Resolution, the amended Regulations Governing the Award of Minor at B.E./ B.Tech. Degree Programs are hereby notified. The regulations are applicable tothe following students

- Students who have beenadmitted to I semester / 1st year of B.E./B.Tech. programs in the academic year 2021-22 and **onwards**

- Students (lateral Entry) who will beadmitted to III semester /2nd year of B.E./B.Tech., Programs in the academic year 2022-23 and **onwards**

- **Regulations are uniformly applicable to the students of Constituent College, Affiliated Colleges, and Autonomous Colleges under VTU Belagavi**

The ONLINE courses recommended for the award of the minor degree will be published by the university shortly. The minor degree will be awarded to the students of Constituent College, Affiliated Colleges, and Autonomous Colleges under VTU,who earn 18(or more) credits by completing the ONLINE courses, approved and published by the University.

You are hereby directed to bring the content of the NOTIFICATION to the notice of all the concerned and to follow them scrupulously. Regulations are made available for all

**@ https://vtu.ac.in/wp-content/uploads/2022/11/notification-Minor-Regulations-1.pdf**

Sd/-
REGISTRAR

To,

1. **The Principals of all Engineering (Constituent / Affiliated / Autonomous) Colleges under the ambit of VTU Belagavi**

2. **The Chairpersons/ Program Coordinators of University Departments at Belagavi, Bengaluru, Kalaburgi and Mysuru**

**Copy to**.

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information and needful
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation in their region
4. The Director (I/c) ITI SMU, VTU Belagavi for information and making arrangements to upload the notification and amended regulations on the VTU web portal.
5. PS to Registrar for Information
6. All Special Officers and Caseworkers of the Academic Section VTU Belagavi for information
7. Office copy

**REGISTRAR**

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

"ಏಟಿಯು ಅಧಿನಿಯಮ ೧೯೯೪ರ ಅಡಿಯಲ್ಲಿ, ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ
"ಜ್ಞಾನ ಸಂಗಮ", ಬೆಳಗಾವಿ-೫೯೦೦೧೮, ಕರ್ನಾಟಕ, ಭಾರತ

# Visvesvaraya Technological University

(State University of Government of Karnataka Established as per the VTU Act, 1994)
"Jnana Sangama" Belagavi-590018, Karnataka, India
Phone: (0831) 2498100, Fax: (0831) 2405467, Website: vtu.ac.in

**Dr. A. S. Deshpande**B.E., M.Tech., Ph.D.
Registrar

Phone: (0831) 2498100
Fax: (0831) 2405467

Ref: VTU/BGM/BOS/SO2/2021-22/ **2115**                Date: **12 JUL 2022**

## NOTIFICATION

**Subject:**    Regulations Governing Award of Minor at B.E./B.Tech.
Degree Programs regarding...
**Reference:**  166th EC Proceedings no. 2.2.1. dated 29.06.2022

Pursuant to aforesaid Executive Council Resolution, the Regulations Governing the Award of Minor at B.E./ B.Tech. Degree Programs are hereby notified. The regulations are applicable to the following students

- Students who are taken admission to I semester / 1st year of B.E./B. Tech. programs in the academic year 2021-22 and onwards

- Students (lateral Entry) who will take admission to III semester /2nd year of B.E./B.Tech., Programs in the academic year 2022-23 and onwards

- **Regulations are uniformly applicable to the students of Constituent College, Affiliated Colleges, and Autonomous Colleges under VTU Belagavi**

The ONLINE courses recommended for the award of the minor degree will be published by the university shortly. The minor degree will be awarded to the students of Constituent College, Affiliated Colleges, and Autonomous Colleges under VTU, who earn 18(or more) credits by completing the ONLINE courses, approved and published by the University.

You are hereby directed to bring the content of the NOTIFICATION to the notice of all the concerned and to follow them scrupulously.

Sd/-
REGISTRAR

To,
**The Principals of all Engineering (Constituent / Affiliated / Autonomous) Colleges under the ambit of VTU Belagavi**

**Copy to.**

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4. The Director (I/c) ITI SMU, VTU Belagavi for information and making arrangements to upload the notification and regulation on the VTU web portal.
5. PS to Registrar for Information
6. All Special Officers and Caseworkers of the Academic Section VTU Belagavi for information

12.07.2022

**REGISTRAR**

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY
## "Jnana Sangama", Belagavi



# VTU Regulations Governing the Award of 'Minor'

# at B.E./B.Tech. Degree Programs

Applicable to the students of Affiliated/ Constituent /
University Department programs/Autonomous colleges of VTU Belagavi from
2022-23 batch and onwards.

Office of the Academic Section,
Visvesvaraya Technological University,
"Jnana Sangam" BELGAUM-590018,
Karnataka, India.
0831-2498112, 2498100,
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# CONTENTS

# REGULATIONS GOVERNING THE AWARD OF 'MINOR AT B.E/B.TECH DEGREE PROGRAMS

**Preamble:**

To enhance employability skills and impart deep knowledge in emerging areas that are usually not being covered in the Undergraduate Degree credit framework, AICTE has come up with the concept of 'Minor Degree' in emerging areas. The concept of a Minor Degree is discussed in the Approval Process Handbook (APH) for the academic session 2022-23 page no. xxiv issued by AICTE. A minor Degree will carry18 to 20 credits in addition to the credits essential for obtaining the Under Graduate Degree in Major Discipline (i.e. 160 credits for regular students and 120 credits for lateral entry students).

The **Bachelor of Engineering /Bachelor of Technology (B.E./B. Tech.) with Minor** program focuses on the fundamental principles of multiple Engineering disciplines, critical & analytical thinking, and the ability to develop a distinctive approach to interdisciplinary problems.

**Objectives**

The key objectives of offering B.E./B.Tech., with Minor programs are:

- To enable students to pursue an allied academic interest in contemporary areas
- To expand the domain knowledge of the students in one of the other branches of engineering.
- To provide an academic mechanism for fulfilling the multidisciplinary demands of industries.
- To increase the employability of undergraduate students keeping in view better opportunities in interdisciplinary areas of engineering & technology.
- To offer knowledge in the areas which are identified as emerging technologies/thrust areas of Engineering.
- Provides an opportunity for students to become entrepreneurs and leaders by taking a business/management minor.
- Provides an opportunity to Applicants to pursue higher studies in an interdisciplinary field of study.
- To increase the overall scope of the undergraduate degrees

**Minor Courses Syllabus**

The Board of Studies (BoS) of the University shall recommend the ONLINE courses for minor degree. The list of the courses which are included in each track will form a syllabus for minor degree programs.  These courses to offer between fourth to eight semesters for all branches.  The eligible list of programs for various minor baskets shall be published the University.

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| **22UGMINER1.0** | | **Short Title, Applicability, and Commencement:** |
| | 1.1 | These Regulations shall be called "VTU Regulations Governing the Award of B.E/ B. Tech program with Minor Degree. |
| | 1.2 | These Regulations shall apply to all B.E/ B. Tech. Programs are being conducted by the University Departments, Affiliated, Constituent and autonomous colleges under the University. |
| | 1.3 | These Regulations shall come into force from the date of their notification by the University. |
| **22UGMINER2.0** | | **Definitions:** |
| | 2.1 | In these Regulations, unless the context requires otherwise or it is specifically defined: |
| | 2.2 | 'Academic Senate (AS)', 'Board of Studies (BOS)',' Executive Council (EC)','mean the respective Authorities of the University. |
| | **2.3** | **'AICTE'** means the All India Council for Technical Education and was established by an Act of Parliament in 1987. |
| | 2.4 | **'Coursework"** means the Courses prescribed for the Minor program,  which the candidate shall complete in the specified period for the Degree award. |
| | 2.5 | **'E-resources'** means learning material saved electronically in online storage platforms/devices for use anywhere/any time accessed online or after being downloaded from the relevant sources. |
| | 2.6 | **'Minor'** means a recognition award to a undergraduate (UG) student on earning the specified extra credits after satisfying the relevant Degree award conditions. |
| | 2.7 | **'Principal'** means the executive head of an affiliated/ constituent/ autonomous college under the university. |
| | **2.8** | **Registrar and 'Registrar (Evaluation**)' mean respectively the Registrar and Registrar (Evaluation) of the University. |
| | **2.9** | **UGC**' means the University Grants Commission and was  established in New Delhi by an Act of Parliament in 1956. |
| | 2.10 | **'University** means the Visvesvaraya Technological University (VTU) with its headquarters at Belagavi. |
| | 2.11 | **'Vice Chancellor'** means the Vice-Chancellor of the University. |
| **22UGMINOR 3.0** | | **Eligibility Criteria for Registration :** |
| | 3.1 | A student can opt for B.E./ B.Tech., degree with a Minor program if she/he has no active backlogs till the 3rd semester at the time of registration. |

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| | 3.2 | The minimum CGPA required to maintain up to the 3rd semester at the time of registration and onward up to completing the core degree program is ≥ 5.0. |
| | 3.3 | A CGPA of ≥ 5.0 has to be maintained in the subsequent semesters without any backlog in order to keep the Minor's registration active. If failed to maintain the CGPA≥5.0 then, the registration will be cancelled automatically and no separate/ individual communication to the college/student will be made by the university. |
| | 3.4 | Prior approval of mentor, Head of the Department, and Principal of the Institute for the enrolment into the Minor program, before commencement is mandatory |
| **22UGMINOR4.0** | | **Registration Procedure:** |
| | 4.1 | Any student meeting the eligibility criteria specified above and intending to register for the Minor qualification shall apply to the University through the Principal of his /her Institute in the prescribed form along with the prescribed application fees within 15 Working days after notification by the University. |
| | 4.2 | There shall be no limit on the intake of students for registration for the Minor qualification. All the applicants fulfilling the eligibility criteria can register. |
| | 4.3 | The Registrar shall notify the registration, otherwise immediately after the announcement of the 3rd semester result the students within the next 15 working days on the University Notice Boards with copies to the Colleges concerned. |
| | 4.4 | The students shall pay a one-time non-refundable registration fee as prescribed by the University to confirm the registration. |
| | 4.5 | Fees for late registration may be imposed as per the university norms. |
| **22UGMINOR5.0** | | **Instructions** |
| | 5.1 | The choice to opt/take a Minor program is purely the choice of the students. |
| | 5.2 | For B. Tech. with a Minor, a student needs to earn additional 18 credits (over and above the required 160 credits for the B.E./B. Tech program). The list of ONLINE courses of each Minor program, the respective credits weightage, and the semester-wise break-up of the courses are published by the University. All these18 credits need to be completed from the IV semester to VIII semester only. |
| | 5.3 | These 18 credits are to be earned from the additional recommended courses offered through ONLINE mode. |
| | 5.4 | The students should choose a course from the list against each semester (from the Minor course structure) other than the course they have studied/registered for |

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| | | regular B.E./B.Tech program. No course should be identical to that of the regular B.E./B.Tech., course. The students should take the advice of faculty mentors while registering for a course at the beginning of the semester. At any stage, if it is found that the course are repeated, the registration will be cancelled. |
| | 5.5 | After registering for the Minor program, if a student is unable to earn all the required 18 credits in a specified duration, he/she shall not be awarded a Minor degree. However, if the student earns all the required 160 credits of B.E./B.Tech.,he/she will be awarded only B.E./B. Tech degree in the concerned branch. |
| | 5.6 | Minor must be completed simultaneously with a major degree program. A student cannot earn the Minor after he/she has already earned bachelor's degree. |
| | 5.7 | The student can choose only one Minor program along with his/her basic engineering degree. A student who chooses an Honours program is not eligible to choose a Minor program and vice-versa |
| | 5.8 | There is no transfer of credits from Minor program courses to regular B.E./B. Tech. Degree course & vice-versa. No student is permitted to switch from Hons' programs to Minor's program and vice-versa. |
| | 5.9 | A student can graduate with a Minor if he/she fulfills the requirements for his/her regular B.E./B.Tech program as well as fulfills the requirements for the Minor program. |
| | 5.10 | Students can chose the number of courses per semester in a such a way that he/she can complete the courses of 18 (or more) credits before the completion of the duration of the major degree program |
| | 5.11 | Any students failing to maintain the performance in the 4th-8th semesters at UG, as the case may be, at the levels prescribed under clauses 3.1 to 3.3 shall discontinue the attempt to earn additional credits. |
| | 5.12 | The student shall be given a choice of withdrawing all the courses registered and/or the credits earned for the Minor program at any time; and in that case, the student will be awarded only B.E./B. Tech .degree in the concerned branch on earning the required credits of 160. |
| | 5.13 | The institute shall maintain a record of students registered and pursuing their Minor program, minor program-wise, and parent branch-wise. The same report needs to be sent to the University once the enrolment process is complete. |

| | | |
|---|---|---|
| | 5.17 | If industries/agencies/Institutes have sufficient expertise/infrastructure in the respective area/discipline. An undertaking to this effect has to be submitted by the Principal and is subjected to scrutiny/audit by the University. Complaints from any corner regarding this issue will not be entertained by the University and shall be addressed by the respective Principal. |
| | 5.19 | The Institute can opt the courses from an external industry/agency/institute recommended and approved by the concerned BOS. The Board of studies of the concerned discipline of Engineering shall review such courses being offered by eligible external industry/agency/institute and prepare a fresh list every year incorporating the latest skills based on industrial demand. |
| 22UGMINOR6.0 | | **Award of Minor Qualification** |
| | 6.1 | All the students who complete the course as prescribed under Section 22UGMINOR5.0 above and submit their certificates in time before the closure of the UG (8th Semester) as per the academic calendar shall be eligible for the '" Minors" qualification. |
| | 6.2 | The '"Minors' qualification shall be suffixed to the respective degrees and shown in the Degree certificate as a recognition of higher achievement by the student concerned |
| | | The CGPA and/or Class awarded to the students shall be only based on students' performance in the various semester-level examinations conducted proctored manner. |
| 22UGMINOR7.0 | | **Repeal and Savings:** |
| | 7.1 | Notwithstanding anything contained in these Regulations, the provisions of any guidelines, orders, rules, or regulations in force at the University shall be inapplicable to the extent of their inconsistency with these Regulations. |
| | 7.2 | The University shall issue such orders/instructions, and prescribe such format/procedure, as it may deem fit to implement the provisions of these Regulations. |
| 22UGMINOR8.0 | | **Interpretation:** |
| | 8.1 | Any question as to the interpretation of these Regulations shall be decided by the Vice-Chancellor, whose decision shall be final and binding. |
| | 8.2 | The University shall have the powers to issue clarifications to remove any doubt difficulty or anomaly which may arise during the implementation of the provisions of these Regulations. |

Example for awarding of Minor degree

| S. No. | Minor Program track name | Eligible branch of students | @ Offering Department | Award of Degree |
|---|---|---|---|---|
| 1. | Artificial Intelligence & Machine Learning | All branches, except B. Tech. in CSE (AI&ML)/B.Tech. (AI&ML)/ B. Tech. (AI)/ B.Tech. CSE(AI) | CSE | "B.E./B. Tech. in branch-name with Minor in Artificial Intelligence & Machine Learning" |
| 2. | Cyber Security | All branches, except B. Tech. in CSE (Cyber Security)/ B.Tech. (Cyber Security) | CSE | "B.E./B. Tech. in branch-name with Minor in Cyber Security" |
| 3. | Data Science | All branches, except B.Tech. In CSE (Data Science) /B.Tech.(Data Science) | CSE | "B.E./B.Tech.in branch name with Minor in Data Science" |
| 4. | IOT | All branches, except B.Tech. in CSE(IOT)/B.Tech.(IOT) | ECE | "B.E./B. Tech. in branch -name with Minor in IOT" |
| 5. | Innovation and Entrepreneurship | All branches. | Management Science /MBA | "B.E./B. Tech. in branch name with Minor in Innovation and Entrepreneurship" |