



# P E S COLLEGE OF ENGINEERING MANDYA – 571 401, KARNATAKA

(An Autonomous Institution Affiliated Under Visvesvaraya Technological University, Belagavi)

Dated: 05<sup>th</sup> October, 2020

## CIRCULAR

**Sub: Inviting Applications for Registration to B.E. / B.Tech. Honours Degree Programme for the academic year 2020 – 21 – Reg.**

**Ref: VTU Office letter VTU / BGM / Honours / 2020-21 / 2706 Dated 1<sup>st</sup> October, 2020**

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With reference to the above, Visvesvaraya Technological University has invited application for registration to B.E. / B.Tech. Honours Degree Programme for the academic year 2020 – 21 from eligible students.

### I. Eligibility for Registration:

- The student are eligible to register for B.E. / B.Tech. Honours Programmes in their 5<sup>th</sup> Semester level by paying one time non-refundable registration fee of Rs. 1,000/-.
- The Student shall have obtained a grade  $\geq$  D in all the courses in the first attempt only, in all the semester until 4<sup>th</sup> semester (including 4<sup>th</sup> Semester).
- The Student should have obtained a CGPA  $\geq$  8.5 at the end of 4<sup>th</sup> semester.
- The Diploma lateral entry students should have completed the Additional Mathematics I and II during 3<sup>rd</sup> and 4<sup>th</sup> Semester in first attempt only.

### II. Procedure for Registration:

- The students have to complete the enclosed application and submit the same to their **respective department** on or before **10<sup>th</sup> October, 2020** along with a payment.
- This year (AY 2020-21) registration are permitted only to students with **USN XXX18XXXXX (Regular)** and **USN XXX19XX4XX (Diploma Lateral Entry)**.
- The registrants shall abide by the VTU regulations governing the award of 'Honours' at B.E. / B.Tech. Degree programme (Visit: <https://vtu.ac.in/en/b-e-b-tech-regulations-honours/> for regulations) and other norms and guidelines issued from time to time.
- The Department are requested to advice and mentor the students (**Through MOOCs / ICT Coordinators**) with reference to the conditions prescribed by the University in its Regulations Governing the Degree of B.E. / B.Tech. Honours 2020-21 (Visit: <https://vtu.ac.in/en/b-e-b-tech-regulations-honours/> for regulations). **Further, the department shall verify and forward the applications from eligible students to the Dean Office on or before 12<sup>th</sup> October, 2020.**

P.T.O.





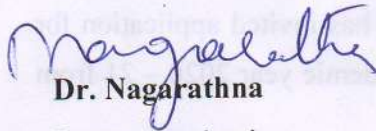
# P E S COLLEGE OF ENGINEERING

## MANDYA – 571 401, KARNATAKA

(An Autonomous Institution Affiliated Under Visvesvaraya Technological University, Belagavi)

- e. The Department shall maintain the database of such registered students along with the course completion details for the award of Honours degree. The additional credits obtained after registration will be considered.

The Circular may be brought to the notice of all eligible students and insist them to complete the registration.

  
Dr. Nagarathna

Dean - Academic

Dr. Nagarathna

Dean (Academic)

Enclosures: Mandya.

  
Dr. H V Ravindra

Principal

P.E.S. College of Engineering  
MANDYA - 571 401.

1. VTU regulations governing the award of 'Honours' at B.E. / B.Tech. Degree programme (Visit: <https://vtu.ac.in/en/b-e-b-tech-regulations-honours/> for regulations)
2. Application Format for Registration

To,

**The Head of the Department (UG) to bring to the notice of all eligible students and insist them to complete the registration through MOOCs / ICT Coordinators.**

Copy to:

1. The Controller of Examination for kind information.
2. MOOCs Coordinator in turn through department MOOCs / ICT Coordinators are requested to guide the eligible students for enrolling and completing NPTEL courses prescribed by VTU for B.E. / B.Tech. Honours 2020-21.
3. Web Coordinator to upload on College Website.



# Visvesvaraya Technological University

“Jnana Sangama”, Belagavi – 590 018, Karnataka State

## REGISTRATION FOR B.E. / B.TECH. HONOURS

(Applicable for students with USN XXX18XXXXX (Regular) and USN XXX19XX4XX (Lateral Entry))

1. Name of student in full (*in block letter*) as registered in the University : 

**Affix  
recent Photograph**
2. Name of College :
3. University Seat Number :
4. Gender :
5. Nationality :
6. Year of Registration to B.E. Honours :
7. Eligibility :  
(*As per Clause 18UG HONOURS 4*)
8. Details of Additional Coursework : As per existing and time to time issued Regulations / Guidelines of University
9. Document Attached : 1<sup>st</sup> to 4<sup>th</sup> Semester Grade cards / Result sheets
10. Payment of Registration Fee : Rs. 1000/-  
(*Onetime non-refundable*) Transaction Id. \_\_\_\_\_  
Date: \_\_\_\_\_

### Declaration by the student:

I, hereby solemnly and sincerely affirm that the information furnished in my application along with the documents submitted by me are true. Should it, however be found that any information furnished is found to be false, I realise that I am liable to legal action and that my admission to the programme shall be forfeited.

I, hereby solemnly and sincerely affirm that I have read and understood the University regulations Governing the Degree of the Award of ‘Honours’ at B.E. / B.Tech. Degree Programme and I will abide by the existing and time issued regulation / guidelines / norms of the University.

Place:

Date:

Signature of Student

Signature of the Principal

### INSTRUCTIONS TO CANDIDATES

1. The application duly filled should be sent to the University through the Principal of the College.
2. The attested copies of the marks cards (attested by the Principal of the College) should be attached to the application. Originals need not be attached.
3. Unsigned / incomplete / wrongly filled applications are liable to be rejected.



**Visvesvaraya Technological University**  
"Jnana Sangama", Belagavi - 590 018, Karnataka State

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

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

Ref: VTU/BGM/OS-Aca/2020-21/ 369

Date :

- 3 JUN 2020

**NOTIFICATION**

**Sub: Regulations Governing the Degree of the Award of 'Honours' at B.E./ B.Tech. Degree Programmes - reg...**

**Ref: Executive Council Resolution. No.2.2.1 dt: 27<sup>th</sup> May, 2020**

Pursuant to the aforesaid Executive Council Resolution, the **"Regulations Governing the Degree of the Award of 'Honours' at B.E./ B.Tech. Degree Programmes** are hereby notified.

These Regulations are applicable for the following students:

1. Admitted to I semester/I year from the academic year 2018-19 (i.e. USN XXX18XXXXX)
2. Admitted to III semester/II year from the academic year 2019-20 (i.e. USN XXX19XX4XX)
3. These Regulations are uniformly applicable to Affiliated, Autonomous and Constituent Colleges under VTU

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

**Encl: as above**

**BY ORDER**

**REGISTRAR**

**To,**

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

**Copy to:**

1. Hon'ble Vice-Chancellor through the Secretary to VC, VTU, Belagavi for kind information
2. The Registrar (Evaluation), VTU, Belagavi
3. The Regional Directors (I/C) of all the Regional Offices of VTU for circulation
4. The Computer Network Centre, VTU, Belagavi- to upload on VTU website
5. PS to Registrar, VTU, Belagavi
6. All the concerned Special Officer and Case-workers of Academic Section, VTU, Belagavi

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



**VTU Regulations Governing the Award of 'Honours'**  
**at B.E./B.Tech. Degree Programmes**  
**(Applicable to 2018 - 19 batch and onwards)**

**May 2020**

*01.6.2020*

**REGISTRAR**  
**Visvesvaraya Technological University,**  
**BELAGAVI - 590 018.**

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 BELAGAVI - 590 018.



## Introduction:

### (a) Honours Degree

An increasingly interconnected global economy (the economies of the world's individual countries considered together as a single economic system.) as the result of globalization is creating collaborative opportunities and competitive pressures requiring broadly educated engineers and business professionals. Also, the next generation engineers have to practice an interdisciplinary approach to problem solving.

The objectives of decorating the students with superior academic ability with Honours(Honours: British, Honors: US) are to

- Encourage the advanced levels of study and multidisciplinary learning,
- Specialize in a focused area of their interest,
- Learn new skills and methodologies pertaining to their area of interest,
- Enable personal creativity,
- Cultivate a sustaining interest in advanced education and research,
- Enhance professional development, and
- Provide opportunities to gain recognition at the time of graduation for advanced, distinguished work as an undergraduate.

The Bachelor of Engineering degree with Honours earned with experiences, both inside and outside the classroom, will enhance, after graduation, all types of opportunities as professional engineers in the competitive world.

To encourage and groom engineering students during their engineering programme to become self-motivated independent investigators, critical thinkers, problem solvers, good communicators, team players, effective managers, life-long learners, as well as economically, environmentally and socially aware AICTE has introduced a scheme wherein each student has to earn **18 or more** additional credits through Massive Open Online Courses (MOOCs).

To cater the engineering skill requirements of the next-generation due to continuously changing expectations of the industry, society, and global stakeholder community owing to technology growth and globalization, VTU intends to prepare graduates equipped with interdisciplinary knowledge.

To embody the intentions of AICTE, VTU has instituted the award of Bachelor of Engineering /Technology degree with Honours from 2018 - 19 batch.

### (b) SWAYAM(<https://swayam.gov.in/about>, © 2019 SWAYAM.)

Study Webs of Active Learning for Young Aspiring Minds (SWAYAM) is India's national MOOC portal to provide the best teaching-learning resources to all, including the most disadvantaged. It is a programme initiated by the Government of India and designed to achieve the three cardinal principles of Education Policy viz., access, equity and quality.

SWAYAM offers at free of cost the best quality courses developed by the following nine National Coordinators.

(1) All India Council for Technical Education(AICTE), (2) National Programme on Technology Enhanced Learning(NPTEL), (3) University Grants Commission(UGC), (4)

Consortium for Educational Communication(CEC), (5) National Council of Educational Research and Training(NCERT), (6) National Institute of Open Schooling(NIOS), (7) Indira Gandhi National Open University(IGNOU), (8) Indian Institute of Management (IIMB), Bangalore, and (9) National Institute of Technical Teachers Training and Research(NITTTR).

### (c) National Programme for Technology Enhanced Learning (NPTEL)

National Programme on Technology Enhanced Learning (NPTEL), funded by the Ministry of Human Resource Development, Government of India is an online E-learning model for furthering technical knowledge. The online courses in engineering, technology, science, arts and humanities are designed and executed by IIT Bombay, IIT Delhi, IIT Guwahati, IIT Kanpur, IIT Kharagpur, IIT Madras, IIT Roorkee, and Indian Institute of Science (IISc), Bengaluru.

There are primarily two types of courses, web-based and video-based. The former consists of lecture notes while the latter has segmented videos based on each topic within the course. Students can register for the online courses as per dates in an academic calendar published by each institute (i.e., 7 IIT's and IISc) participating in NPTEL. There are 4week, 8week, as well as 12week courses offered twice a year (January – June, July – December). Students can register/join for any number of courses, however only a maximum of four (04) examinations can be written per semester/session. Students can sign up (register) for the course/s every time the course/s are offered. Joining a course is free and has no pre-requisites, no age limit, and no entrance criteria to enrol. Not all courses on NPTEL are available for certification.

A separate portal "<https://onlinecourses.nptel.ac.in/explorer>" exists to handle certified courses. Clicking of the above given-link and the resulting nptel – Swayam under [swayam.gov.in](http://swayam.gov.in) > NPTEL leads to <https://swayam.gov.in/NPTEL> course catalogue to display, as illustrated below, the courses upcoming (Enrolment open) and Ongoing (Enrolment closed). [Illustration is as available on 18 May 2020]



A basic course in number theory  
Prof. Shripad Garge IIT Bombay  
**NPTEL**  
 12 Weeks (Starts: 20-07-2020)  
 Exam Date: 18 Oct, 2020  
 Enrollment Ends: 27 Jul, 2020



Advance Aircraft Maintenance  
Prof. A.K. Ghosh, Prof. Vipul Mathur  
IIT Kanpur  
**NPTEL**  
 8 Weeks (Starts: 17-08-2020)  
 Exam Date: 18 Oct, 2020  
 Enrollment Ends: 17 Aug, 2020



Advanced Concrete Technology  
Prof. Manu Santhanam IIT Madras  
**NPTEL**  
 12 Weeks (Starts: 20-07-2020)  
 Exam Date: 18 Oct, 2020  
 Enrollment Ends: 27 Jul, 2020

The link - <https://onlinecourses.nptel.ac.in> can be used to enrol/register for NPTEL online course/courses. After enrolling to a course, watching videos and submission of weekly

  
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assignments, students can get a certificate from the IITs/IISc by appearing in-person to the proctored (proctor refers to invigilate) certification examination (for a nominal fee of about Rs.1000.00/-) and Passing the examination with a consolidated score of 40% or above. 25 % of the final marks come from the assignments and 75 % from the final examination. The examination score is 75 % of the proctored certification examination score out of 100. The final score is the sum of the average assignment score and examination score.

Students will be eligible for a certificate only if average assignment score  $\geq 10/25$  and Examination Score  $\geq 30/75$ . The students will not get the certificate if one of the 2 criteria is not met, even if the Final score  $\geq 40/100$ .

A Certificate will have a student name, photograph, and the score in the final examination with the breakup. It will have the logos of NPTEL and IIT/IISc. It will be e-verifiable at [npTEL.ac.in/noc](http://npTEL.ac.in/noc). Only the e-certificate will be made available. Hard copies will not be dispatched.

The availability NPTEL course/s, of course, keeps on changing as it depends on the request made by the number of institutions, requirement of the respective course, faculties [subject matter experts (SMEs)] and various other factors.

The NPTEL courses are also part of a lifelong learning process.

  
  
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**Jnana Sangama, Belagavi**

**VTU Regulations governing the award of 'Honours' at  
 B.E./B.Tech. Degree Programmes**

**18UG HONRS 1.0 Preamble**

These Regulations governing the award of 'Honours' at B.E. / B.Tech., degree programmes have been framed in pursuance of the provisions for this qualification in AICTE model curriculum for undergraduate programmes in Engineering and Technology, Vol. I and II, January 2018 and in the UGC Notification on the Specification of Degrees, March 2014. These provisions aim at facilitating the award of higher qualifications and recognition to well-performing undergraduate students of the University on their acquiring additional credits in the same time period for the programmes. In adopting these provisions, the University has taken steps to ensure that the quality and standard of the Degree awards are not compromised in any way and they continue to be maintained at a high level.

**18UG HONRS2.0 Short title, Applicability and Commencement**

- (a) These Regulations shall be called 'VTU Regulations Governing the award of 'Honours' at B.E./B.Tech. Degree Programmes, 2019.
- (b) These Regulations shall be applicable to all B.E./B.Tech. Degree Programmes being conducted by the University and Autonomous Colleges under the University.
- (c) These Regulations shall come into force from the date of their notification by the University.

**18UG HONRS3.0 Definitions**

In these Regulations, unless the context requires otherwise or it is specified so defined:

- (a) 'Academic Senate (AS)', 'Executive Council (EC)' mean the respective Authorities of the University.
- (b) 'AICTE' means the All India Council for Technical Education established at New Delhi by an act of Parliament in 1987.
- (c) 'Coursework' means the courses prescribed for the relevant programme, which the candidate shall successfully complete in the specified time period for the Degree award.
- (d) 'e - Resources' mean learning material saved electronically in online storage platforms/ devices for using any - where and any-time accessed online or after being downloaded from the relevant sources.
- (e) 'Honours' means a higher recognition awarded to a well performing UG student on earning the specific extra credits after satisfying the relevant Degree award conditions.

  
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- (f) 'Intake' means the number of students sanctioned for admission in a year to a Programme/ Department / College as the case may be.
- (g) 'MOOCs' mean Massive Open Online Courses in a variety of disciplines available at both introductory and advanced levels, accessible from e-resources in India and abroad.
- (h) 'Principal' means the executive head of an affiliated / constituent / autonomous college under the University.
- (i) 'Registrar' and 'Registrar (Evaluation)' mean respectively the Registrar and Registrar (Evaluation) of the University.
- (j) 'UGC' means the University Grants Commission established at New Delhi by an act of Parliament in 1956.
- (k) 'University' means the Visvesvaraya Technological University (VTU) with its headquarters at Belagavi.
- (l) 'Vice-Chancellor' means the Vice-Chancellor of the University.

#### **18UG HONRS 4.0 Eligibility Criteria for Registration**

Every student of the University intending to register for the 'Honours' qualification shall fulfil the following academic requirements:

- (a) Registration to 'Honours' qualification shall start from fifth semester onwards.
- (b) The Registrants shall have obtained a grade  $\geq$  D in all the courses in the first attempt only, in the semesters until this stage.
- (c) The Registrants shall have obtained a CGPA  $\geq$  8.50 at the end of the fourth semester.
- (d) The lateral entry Diploma students shall have completed Additional Mathematics I and II during 3rd and 4th semesters in first attempt only.
- (e) The lateral entry B.Sc students shall have completed Engineering Graphics and Design, and Civil Engineering and Mechanics of First-Year Engineering Programme, by the end of IV semester in first attempt only.

#### **18UG HONRS 5.0 Registration Procedure**

- (a) Any student meeting the eligibility criteria specified above and intending to register for the Honours qualification shall apply to the University through the Principal of his/her College in the prescribed form along with the prescribed application fees within 15 working days after notification by the University.
- (b) There shall be no limit on the intake of students for registration for the Honours qualification. All the applicants fulfilling the eligibility shall be free to register for the Honours qualification.
- (c) The Registrar shall notify the registration, or otherwise, of the student/s within the next 15 working days on the University Notice Boards with copies to the Colleges concerned.
- (d) If registered, the students shall pay a one-time non-refundable registration fee as prescribed by the University to confirm the registration.

  
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**18UG HONRS 6.0 Additional Coursework**

- (a) In addition to the courses prescribed by the University to be completed successfully in the remaining semesters, that is, fifth to eight for the relevant Degree award, each student registered for the Honours qualification shall have to take up the coursework as notified by the university from NPTEL and other platforms and complete each coursework successfully irrespective of the number of attempts, with a final score (Online assignments: 25% + Proctored exam: 75%) leading to NPTEL Elite (60 to 75 %) / Elite + Silver (76 to 89 %) / Elite-Gold ( $\geq 90$  %) certificate, within the minimum prescribed duration for the award of degree. [To be read with 18UG HONRS 6.0 (c)]
- (b) Students shall be permitted to drop the registered coursework/s and select alternative coursework/s in case they cannot appear for proctored examination/s or complete the examination as per 18UG HONRS 6 (a).
- (c) The University shall announce the BOS approved list of MOOCs (chosen from NPTEL/SWAYAM/other platforms) corresponding to each engineering programme. The University shall have the freedom to review and approve additional online platforms from time to time.
- (d) (i) Students shall choose, online courses totaling to **18 or more credits** from the bouquet of approved online courses as defined in 6(a).  
(ii) Students shall select, in consultation with the concerned Faculty Advisor, the MOOCs such that the content/syllabus of them are not similar to that of the programmes first to eighth semesters core courses, professional electives or open electives that the student chooses at later semesters of the programme.  
In case of violations, the credits earned by the students in such course/s shall not be considered for the summation of prescribed 18 or more credits and hence for the award of Honours degree.
- (e) The students shall earn the credits by only appearing in person to the proctored examination conducted by NPTEL/SWAYAM/other platform. No autonomous or non-autonomous colleges under the University can conduct examination and award credits in lieu of NPTEL/SWAYAM/other platform to accrue 18 or more credits for the award of Honours degree.
- (f) The method of assessment shall be as per the NPTEL online platform.
- (g) The credit equivalence for online NPTEL courses shall be determined based on the following table.

Table: Assigned credits	
Online course duration	Assigned credits
04 weeks	01
08 weeks	02
12 weeks	03

**18UG HONRS 7.0 Award of Honours Qualification**

All the students who successfully complete the online courses as prescribed under 18UG HONRS 6.0 and submit their certificates to the University through Principal of their respective colleges against the notification issued by the Registrar (Evaluation) in time before closure of eighth semester as per calendar shall be eligible for the 'Honours' qualification.

*01.6.2020*

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**BELAGAVI - 590 018.**



- (a) The Principals of the colleges under VTU shall submit the list of students who are eligible for the award of Honours degree along with the total credit earned by each student and the corresponding MOOC certificates to the University, programme wise, together with the CIE marks of 8th semester.

The list shall be validated by the Faculty Advisor of the students under consideration and endorsed by the Head/Chairperson of the Department.

- (b) Those students who cannot/do not submit the certificates on or before the last date prescribed by the University shall not be considered for the award of "Honours" qualification, irrespective of the number of credits earned by them. However, they shall be awarded only B.E./B.Tech. Degree.
- (c) The 'Honours' qualification shall be suffixed to the respective degrees and shown in the Degree certificates as a recognition of higher achievement by the student concerned.
- (d) The CGPA earned by the students shall be only on the basis of students' performance in the various semester level examinations conducted by the University/ Autonomous colleges, as the case may be.
- (e) (i) Students shall maintain a grade  $\geq$  D in all the courses of fifth to eight semesters in first attempt only.  
 (ii) Students failing to maintain a grade  $\geq$  D in all the courses of fifth to eight semesters in first attempt only shall discontinue the attempt to earn additional credits.  
 (iii) Students not having a CGPA  $\geq$  8.50 at the end of programme shall not be eligible for the award of Honours even if they have satisfied the additional credits consideration prescribed for Honours degree.  
 (iv) The Principals of respective colleges shall submit to the University the list of such students who fail to satisfy 18UG HONRS 7.0 (e) (i) from time to time.  
 (v) The Registrar shall notify the list of deregistered students from time to time.
- (f) (i) The Honours degree shall be awarded only if the CGPA at end of the B.E. / B.Tech. programme is equal to or greater than 8.50.  
 (ii) Additional credits earned through NPTEL shall not be considered for CGPA of B.E. / B.Tech. programme as well as rank declaration.
- (g) All the students fulfilling 18UG HONS 6 (b) and (c) and 18UG HONS 7 (e) (i) and (f) shall be entitled to receive their transcripts indicating both the achievements of the student concerned.
- (h) The award of the Honours degree shall be recommended by the Academic Senate and approved by the Executive Council of the University.

#### 18UG HONRS 8.0 Repeal and Savings

- (a) 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.

  
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- (b) The University shall issue such orders / instructions, and prescribe such format / procedure, as it may deem fit to implement the provisions of these Regulations.

**18UG HONRS 9.0 Interpretation**

- (a) Any question as to the interpretation of these Regulations shall be decided by the Vice-Chancellor, whose decision shall be final and binding.
- (b) 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.



  
01.6.2020.  
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