

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ ೧೯೯೪" ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka established as per the VTU act – 1994)

“ರಜತ ಮಹೋತ್ಸವ ವರ್ಷಾಚರಣೆ”

Celebrating “Silver Jubilee Year” of establishment



Four-Year Bachelor of Science (B.Sc.) (Honors)

Physics/Chemistry/Mathematics/ Nano Science (VIAT Muddenahalli)

About the Program, Fee Structure and List of Colleges

A Multi Disciplinary, Research and Industry Skill Oriented, Four-Year Under-Graduate (UG) Program in Science/Allied Science Subjects Designed as per aspirations of “National Education Policy (NEP) -2020”

About the Program -

Higher education is crucial for securing right kind of employment and to pursue further studies in best available world class institutions within or outside India. Quality education of in general and higher education in particular deserves high priority, to enable students to acquire knowledge, skill and training in order to have a holistic and multidisciplinary education to develop all capacities of human beings- intellectual, aesthetic, social, physical, emotional and moral in an integrated manner.

Sustained initiatives are required to reform the present higher education system for improving and upgrading the academic resources, learning environments by raising the quality of teaching, standards of achievements in learning outcomes across all undergraduate programs in science, humanities, commerce, law and professional streams of higher education including computer science. Hence, to bring positive changes and to make “Bharat” a Vishwa Guru, New National Education Policy (NEP-2020) was accepted and approved by the Union Cabinet on 29th July 2020.

The National Education Policy (NEP) - 2020 aims to double the Gross Enrolment Ratio (GER) in higher education by 2025, from the current 26.3% to 50% and also to make India as a Knowledge Super Power and Self Reliant Economy Country in the world. NEP 2020 aims to convert a single-stream HEIs in a phased manner into multidisciplinary institutions.

In view of above context and aspiration of NEP 2020, Visvesvaraya Technological University (VTU) envisions to emerge as model public university for holistic and multidisciplinary education in the country. In line with this vision, Visvesvaraya Technological University, Belagavi is offering four-year Bachelor Degree in science/allied science.

This program is designed to offer **Bachelor of Science (B.Sc.)/ B.Sc. Honors** in a science subjects such as **Physics, Mathematics, Chemistry and Nano-Science (VIAT Muddenahalli)**. However the knowledge gained by students through this programme will have a strong essence of skill based and industry required topics from the **Engineering Science** subjects such as Electrical, Mechanical, Civil, Electronics and Computer Science along with emerging fields like **Artificial Intelligence, Internet of Things (IoT), Robotics, Machine Learning, Cyber Security and Data Science** and also to have social connect. Students will also be exposed to important topics related to **Social and Political Science, History, Law, Management, Innovation, Commerce, Sports, Yoga, NSS/NCC**. This course will certainly play a role of catalyst in preparations of civil service examinations and any other competitive exams.

This program is designed to promote the ambience of a multidisciplinary research with strong basics, in the campuses of engineering colleges.

Key Features –

- A sound exposure of all students to the fundamentals of scientific, mathematical and engineering principles takes place in the first 3 semesters. Teaching of these core courses includes strong components of laboratory demonstration and hands-on experimental work.
- After first 3 semesters the students opt for a specialization (Honors). The specializations on offer are: Physics, Chemistry, Mathematics and Nano Science (VIAT Muddenahalli).
- Addition to Science Subjects, Students will study skill based and industry required topics from the Engineering Science subjects such as Electrical, Mechanical, Civil, Electronics and Computer Science along with emerging fields like AI, IoT, Robotics, Machine Learning, Cyber Security and Data Science.

- Student broadens his/her knowledge and skill by taking the courses from engineering disciplines.
- Well established laboratory facilities along with highly qualified faculty members of engineering colleges are utilized to offer this programme.
- Students do a research project in the area of their specialization in third and fourth year of the course.
- Students will undergo two internships.
- Two research projects is Hallmark of this Bachelor of Science (Honors).
- Students who complete all the requirements for the award of the Bachelor of Science (Honors) degree have the option to study the Master of Science degree of one year in any University or he /she may join integrated Ph.D. Programme.
- Students may opt for **Minor Degree** along with **Four year B.Sc. Honors** Program in any Emerging/Interested subjects as per the University Norms.

Brief About Admissions - FOR THE ACADEMIC YEAR 2022-23

As per the Government Order No - ED 61 TEC 2022, Dated – 18/05/2022, colleges affiliated to VTU offering Four years B.Sc. Honors program are permitted to fill all 60 seats through management at the college level only. Aspirants of this course please contact the interested institute (list of the colleges given below) and fill the Google form <https://forms.gle/EKeVR3GMCGnZokXB8>

Eligibility Criteria, Procedure, Terms and Conditions: -

1) Intake –

- a) Total intake of the program is **60 seats**.
- b) These Sixty Seats are further classified as **Type –I and Type – II**
- c) Type I and Type II seats are to be filled at the Institutes directly by strictly adhering to the guidelines issued by the VTU and reservation policy.
- d) KCET is not Mandatory for the Admissions.

2) Eligibility Criteria:

- i) The applicant seeking admissions should have passed 12th (10+2) standard examination or equivalent from science stream or with minimum any 3 of the following subjects – Mathematics, Physics, Chemistry, Biology, Electronics, Statistics and Computer Science.
- ii) All aspirants must score 45% or above aggregate marks in the 10+2 level exam.
- iii) SC/ST/OBC candidates need to score 40% or above marks at the 10+2 level exam.
- iv) Students from the State of Karnataka, other states and abroad are permitted to apply.
- v) Applicant must have passed any of the following qualifying examinations; with English as one of the subjects:
 - The +2 level examination in the 10+2 pattern of examination of any recognized Central/State Board of Secondary Education and Council for Indian School Certificate Examination, New Delhi.
 - Intermediate Science or Two-year Pre-University Examination conducted by a recognized Board/University.
 - Final Examination of the two-year course of the Joint Services Wing of the National Defense Academy.
 - General Certificate Education (GCE) Examination (London/Cambridge/Sri Lanka) at the Advanced (A) level with minimum passes of 2/3 subjects.
 - High School Certificate Examination of Cambridge University
 - International Baccalaureate Diploma Program with the minimum passes of 6 subjects (3HL and 3SL) with 24 points.
 - Any Public School/Board/University Examination in India or in foreign countries recognized by the Association of Indian Universities as equivalent to 10+2 system.
 - Senior Secondary School Examination conducted by the National Open School with minimum five subjects.
 - H.S.C. Vocational Examination

3) Prescribed Fee Structure (Table -04): Institutes shall follow the prescribed Fee Structure as given below - Applicable for all the category students

Particulars	Fees (In Rs.) / Year			
	Type -I	Type –II		
	Karnataka	Karnataka	Non -Karnataka	Foreign
Tuition Fee (Maximum)	20,000/-	30,000/-	40,000/-	50,000/-
Other Fees (Maximum)	10,000/-	10,000/-	20,000/-	20,000/-
University Fees	As notified by the University time to time	As notified by the University time to time	As notified by the University time to time	As notified by the University time to time
Total	30,000/- + University Fees	40,000/- + University Fees	60,000/- + University Fees	70,000/- + University Fees

List of the Colleges offering B.Sc. Course

B.Sc. Honors	
Si.No.	Institute Name
1	Atria Institute Technology, Bengaluru
2	SJC Institute of Technology, Chikkaballapura
3	Global Academy of Technology, Bengaluru
4	SJB Institute of Technology, Bengaluru
5	Channabasaveshwara Institute of Technology, Gubbi
6	Don Bosco Institute of Technology, Bengaluru
7	Raj Rajesheshwari College of Engineering, Bengaluru
8	JSS Academy of Technical Edun., Bengaluru
9	Sri Sairam College of Engg., Bengaluru
10	NMAM Institute of Technology, Nitte
11	Vidya Vardhaka College of Eng.g, Mysuru
12	GM Institute of Technology, Davanagere
13	Maharaja Institute of Technology, Mysuru
14	KVG College Engineering, Sullia
15	PES College of Engineering, Mandya
16	Mangalore Institute of Technology & Engg., Moodabidari
17	St. Joseph College of Engineering, Mangaluru
18	Rao Bahaddur Y M Engg. Col, Ballari
19	Ballari Institute of Tech, & Mgmt, Bellary
20	Bhemanna Khandre Inst. of Tech., Bhalki
21	Basaveshwar Engineering College, Bagalkot

22	KLS Gogte Institute of Technology, Belagavi
23	Tontadarya College Engineering, Gadag
24	ATME College of Engineering, Mysuru
25	Bearys Institute of Technology, Mangaluru
26	Acharya Institute of Technology, Bengaluru
27	East West Institute of Technology, Bengaluru
28	Navkis College of Engineering, Hassan
29	Proudhadavaraya Institute of Technology, Hospete
30	Shri Madhwa Vadiraj Institute of Technology, Bantakal, Udupi
31	The Oxford College of Engineering, Bengaluru
32	Brindavana College of Engineering, Bengaluru
33	VTU PG Center Muddenahalli Chikkaballapura

Scan to fill the details –



or

<https://forms.gle/EKeVR3GMCGnZokXB8>