



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

("ವಿ ಟಿ ಯು ಅಧಿನಿಯಮ 1994"ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯ ವಿಶ್ವವಿದ್ಯಾಲಯ)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

(State University of Government of Karnataka Established as per the VTU Act, 1994)

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REGISTRAR

REF: VTU/BGM/BoS/Internship/609/2023-24/ 2080

DATE: -6 AUG 2024

CIRCULAR

Sir/ Madam,

Subject: Modified 2022 Scheme to provide options for INTERNSHIP regarding

Reference:

1. Joint Board of Studies proceedings dated 03.01.2024
2. Special Committee to decide the guideline for one-year duration Internship leading to project proceeding dated 31.01.2024
3. Joint Board of Studies proceedings dated 21.06.2024
4. 174th EC 07.10.2023 SEC in place of Internship
5. 178th EC dated 17.07.2024 Proceeding no. 2.2.1
6. The Hon'ble Vice-Chancellor's approval dated: 06.08.2024

Internships are crucial for connecting academic learning with professional employment. They provide valuable experiences and opportunities for career exploration, contributing to personal development, skill acquisition, educational enhancement, professional growth, career clarity, and job market readiness.

Considering the recommendations of the Joint Board of Studies, the 2022 curriculum for the 7th and 8th semesters has been modified to include the option of internships as listed below:

1. **Scheme A:** According to the teaching and examination plan, the Professional Elective Courses (online), Open Elective Courses (online), and a 14-15-week Internship (Bxx803) are scheduled for the eighth semester. Meanwhile, the Project Work (Bxx786) and other theory courses (Bxx701-703, 714x, and 755x) are allocated to the seventh semester.

(Annexure-I)

- a. However, students who do not secure an internship can opt for **Skill Enhancement Courses (SEC)**, which offer credits equivalent to those of the internship. These SECs are available at online.vtu.ac.in (as per the 174th EC proceeding).
- b. Students choosing Skill Enhancement Courses (SEC) are **not eligible** to take up Scheme B.
- c. **Scheme A: Swappable VII and VIII semesters** to accommodate all the students for the internship. In the ODD semester, 50% of the final-year students can choose to take eighth-semester courses (PEC, OEC, and internship). In contrast, the remaining students can take project work along with the theory courses of the seventh semester. In the EVEN semester, the roles are reversed.
- d. The students with the backlogs or without backlogs are eligible to take up scheme A.



2. **Scheme B:** This scheme is designed for the following aspirants (**Annexure-I**);
- a. Students who would like to pursue a minimum two-semester **industry internship that leads to project work.**
 - b. Students who would like to pursue a minimum two-semester **industry internship that leads to a start-up.**
 - c. Students who seek a minimum two-semester **research internship** that leads to project work, with paper publications in **UGC journals / Scopus-indexed journals.**
 - d. Students can also register if they are selected by the university or college placement cell for a one-year salaried internship at a company, industry, or organization that will result in job confirmation. Such students complete the project work individually under the guidance of a guide or mentor, along with placement training.
3. Students who **do not have any backlog** courses or subjects from previous semesters and whose **CGPA is 6.0** when they take admission to the 5th semester are eligible for Scheme B. All subjects in the 1st to 4th semesters must have been passed on the first attempt.
4. In the present 2022 scheme, for the 7th-semester subjects (BXX701, 702, 703, and 714x), students must take subjects in the 5th semester, complying with registration **clause** 200B3.6.2 (maximum credits to register is 28 credits). The remaining subjects can be taken in the 6th semester (or only subject 703 in the 6th semester and 714x, the professional elective courses, can be opted for as online courses in the 7th semester). Students must study and pass these courses or subjects before being admitted to the 7th semester. The credits for these subjects are recorded in the 7th-semester grade card.
5. If students are not able to pass BXX701, 702, and 703, they are not eligible for Scheme B. They can continue with Scheme A; however, if they pass one or two of the subjects BXX701, 702, and 703, they do not need to retake and qualify in the 7th semester again. Passed subject credits will be recorded in the 7th-semester grade card.
6. The student(s) can take an internship leading to the project work for the duration of the 7th and 8th semesters, following the guidelines given for the same (**Annexure II**).
7. Students must take the examination for the internship and project work at the end of the 8th semester, according to the examination timetable published by the university. They must also study and pass the BoS-recommended online courses available at www.online.vtu.ac.in in place of two Professional Elective Courses (PEC) and two Open Elective Courses (OEC) during the 7th or 8th semester.



All principals of affiliated or constituent engineering colleges and chairpersons of university departments are requested to take note of this information and ensure that the content of the Notification and Annexure-I is communicated to all students.

Sd/-
REGISTRAR

To,

**All the Principals of Engineering Colleges under the ambit of the University
All the Chairpersons/Program Coordinators of University Departments at Kalburgi,
Mysuru, Bengaluru, and Belagavi**

Copy to

- The Hon'ble Vice-Chancellor through the secretary to VC for information
- The Registrar (Evaluation) for information and needful
- The Director, ITI,SMU,VTU Belagavi for information and needful also request to upload the circular on the University website
- The Special Officer QPDS section of VTU Belagavi for information and needful
- Special Officer, COE Mysuru for information and upload the circular on the website online.vtu.ac.in
- Office copy




6/12/24
REGISTRAR
7.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
B.E. in the title of the program
Scheme of Teaching and Examinations2022
 Outcome Based Education (OBE) and Choice Based Credit System (CBCS)
 (Effective from the academic year 2023-24)

V SEMESTER

Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P	S					
1	HSMS	BXX501	This course must be pertaining to economics and management of the concerned degree program. The course syllabus should have both economics and management topics and the course title should bear the word Management.		3	0	0		03	50	50	100	3
2	IPCC	BXX502			3	0	2		03	50	50	100	4
3	PCC	BXX503			4	0	0		03	50	50	100	4
4	PCCL	BXXL504			0	0	2		03	50	50	100	1
5	PEC	BXX515x	Professional Elective Course		3	0	0		03	50	50	100	3
6	PROJ	BXX586	Mini Project		0	0	4		03	100		100	2
7	AEC	BRMK557	Research Methodology and IPR		2	2	0		02	50	50	100	3
8	MC	BESK508	Environmental Studies		2	0	0		02	50	50	100	2
9	MC	BNSK559	National Service Scheme (NSS)	NSS coordinator	0	0	2			100		100	0
		BPEK559	Physical Education (PE) (Sports and Athletics)	Physical Education Director									
		BYOK559	Yoga	Yoga Teacher									
Total									500	300	800	22	
Professional Elective Course													
BXX515A				BXX515C									
BXX515B				BXX515D									





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VI SEMESTER

Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P	S					
1	IPCC	BXX601			3	0	2		03	50	50	100	4
2	PCC	BXX602			4	0	0		03	50	50	100	4
3	PEC	BXX613x	Professional Elective Course		3	0	0		03	50	50	100	3
4	OEC	BXX654x	Open Elective Course		3	0	0		03	50	50	100	3
5	PROJ	BXX685	Project Phase I		0	0	4		03	100	--	100	2
6	PCCL	BXXL606			0	0	2		03	50	50	100	1
7	AEC/SDC	BXX657x	Ability Enhancement Course/Skill Development Course V		If the course is offered as a Theory				01	50	50	100	1
					1	0	0						
					If course is offered as a practical								
					0	0	2						
8	MC	BNSK658	National Service Scheme (NSS)	NSS coordinator									
		BPEK658	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100	---	100	0
		BYOK658	Yoga	Yoga Teacher									
9	IKS	BIKS609	Indian Knowledge System		1	0	0		01	100	0	100	0
Total									500	300	800	18	
Professional Elective Course													
BXX613A				BXX613C									
BXX613B				BXX613D									
Open Elective Course													
BXX654A				BXX654C									
BXX654B				BXX654D									
Ability Enhancement Course / Skill Enhancement Course-V													
BXX657A(L:T:P)				BXX657C(L:T:P)									
BXX657B(L:T:P)				BXX657D(L:T:P)									



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Scheme A-VII SEMESTER (Swappable VII and VIII SEMESTER)

Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P	S					
1	IPCC	BXX701			3	0	2		03	50	50	100	4
2	IPCC	BXX702			3	0	2		03	50	50	100	4
3	PCC	BXX703			4	0	0		03	50	50	100	4
4	PEC	BXX714x	Professional Elective Course / (Online)		3	0	0		03	50	50	100	3
5	OEC	BXX755x	Open Elective Course /(online)		3	0	0		03	50	50	100	3
6	PROJ	BXX786	Major Project Phase-II		0	0	12		03	100	100	200	6
										400	300	700	24

Professional Elective Course

BXX714A		BXX714C	
BXX714B		BXX714D	

Open Elective Course

BXX755A		BXX755C	
BXX755B		BXX755D	

PCC: Professional Core Course, **PCCL:** Professional Core Course laboratory, **PEC:** Professional Elective Course, **OEC:** Open Elective Course **PR:** Project Work, **L:** Lecture, **T:** Tutorial, **P:** Practical **S= SDA:** Skill Development Activity, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation. **TD-** Teaching Department, **PSB:** Paper Setting department, **OEC:** Open Elective Course, **PEC:** Professional Elective Course. **PROJ:** Project work

Note: VII and VIII semesters of IV years of the program

(1) Institutions can swap the VII and VIII Semester Schemes of Teaching and Examinations to accommodate research internships/ industry internships after the VI semester.

(2) Credits earned for the courses of VII and VIII Semester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether the VII or VIII semesters is completed during the beginning of the IV year or the later part of IV years of the program.



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Scheme A- VIII SEMESTER (Swappable VII and VIII SEMESTER)

Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination			Credits	
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks		Total Marks
					L	T	P	S					
1	PEC	Bxx801x	Professional Elective (Online Courses)		3	0	0		03	50	50	100	3
2	OEC	Bxx802x	Open Elective (Online Courses)		3	0	0		01	50	50	100	3
3	INT	Bxx803	Internship (Industry/Research) (14 - 20 weeks)		0	0	12		03	100	100	200	10
										200	200	400	16

Professional Elective Course (Online courses)

Bxx801A		Bxx801C	
Bxx801B		Bxx801D	

Open Elective Courses (Online Courses)

Bxx802A		Bxx802C	
Bxx802B		Bxx802D	

L: Lecture, **T:** Tutorial, **P:** Practical **S= SDA:** Skill Development Activity, **CIE:** Continuous Internal Evaluation, **SEE:** Semester End Evaluation. **TD-** Teaching Department, **PSB:** Paper Setting department, **OEC:** Open Elective Course, **PEC:** Professional Elective Course. **PROJ:** Project work, **INT:** Industry Internship / Research Internship / Rural Internship

Note: VII and VIII semesters of IV years of the program

Swapping Facility

- Institutions can swap VII and VIII Semester Scheme of Teaching and Examinations to accommodate **research internships/ industry internships/Rural Internship** after the VI semester.
- Credits earned for the courses of VII and VIII Semester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether VII or VIII semester is completed during the beginning of IV year or later part of IV year of the program.

Elucidation:

At the beginning of IV years of the program i.e., after VI semester, VII semester classwork and VIII semester **Research Internship /Industrial Internship / Rural Internship** shall be permitted to be operated simultaneously by the University so that students have ample opportunity for an internship. In other words, a good percentage of the class shall attend VII semester classwork and a similar percentage of others shall attend to Research Internship or Industrial Internship or Rural Internship.

Research/Industrial /Rural Internship shall be carried out at an Industry, NGO, MSME, Innovation center, Incubation centre, Start-up, centre of Excellence (CoE), Study Centre established in the parent institute and /or at reputed research organizations/institutes.

The mandatory Research internship /Industry internship / Rural Internships for 14 to 20 weeks. The internship shall be considered as a head of passing and shall be considered for the award of a degree. Those, who do not take up/complete the internship shall be declared to fail and shall have to complete it during the subsequent University examination after satisfying the internship requirements.

Research internship: A research internship is intended to offer the flavor of current research going on in the research field. It helps students get familiarized with the field and imparts the skill required for carrying out research.

Industry internship: Is an extended period of work experience undertaken by students to supplement their degree for professional development. It also helps them learn to overcome unexpected obstacles and successfully navigate organizations, perspectives, and cultures. Dealing with contingencies helps students recognize, appreciate, and adapt to organizational realities by tempering their knowledge with practical constraints.

Rural Internship: Rural development internship is an initiative of Unnat Bharat Abhiyan Cell, RGIT in association with AICTE to involve students of all departments studying in different academic years for exploring various opportunities in techno-social fields, to connect and work with Rural India for their upliftment.

The faculty coordinator or mentor has to monitor the student's internship progress and interact with them to guide for the successful completion of the internship.

The students are permitted to carry out the internship anywhere in India or abroad. University shall not bear any expenses incurred in respect of the internship.


With the consent of the internal guide and Principal of the Institution, students shall be allowed to carry out the internship at their hometown (**within or outside the state or abroad**), provided favorable facilities are available for the internship and the student remains regularly in contact with the internal guide. **University shall not bear any cost involved in carrying out the internship by students.** However, students can receive any financial assistance extended by the organization.

Professional Elective /Open Elective Course:These are ONLINE courses suggested by the respective Board of Studies. Details of these courses shall be made available for students on the VTU web portal.



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Scheme B-VI SEMESTER for the candidates who seek a two-semester internship with project work /Start-up

Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question and Answer Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1	IPCC	BXX601			3	0	2		03	50	50	100	4
2	PCC	BXX602			4	0	0		03	50	50	100	4
3	PEC	BXX613x	Professional Elective Course		3	0	0		03	50	50	100	3
4	OEC	BXX654x	Open Elective Course		3	0	0		03	50	50	100	3
5	PCCL	BXXL606	Lab component		0	0	2		03	50	50	100	1
6	AEC/SDC	BXX657x	Ability Enhancement Course/Skill Development Course V		If the course is offered as a Theory				01	50	50	100	1
					1	0	0						
					If course is offered as a practical								
					0	0	2						
7	MC	BNSK658	National Service Scheme (NSS)	NSS coordinator									
		BPEK658	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100	---	100	0
		BYOK658	Yoga	Yoga Teacher									
8	IKS	BIKS609	Indian Knowledge System		1	0	0		01	100	0	100	0
Total									500	300	800	16	



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Scheme B VII and VIII semesters for the candidates who seek an internship with project work

Sl. No	Course and Course Code		Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Teaching Hours /Week				Examination				Credits
					Theory Lecture	Tutorial	Practical/ Drawing	SDA	Duration in hours	CIE Marks	SEE Marks	Total Marks	
					L	T	P	S					
1	IPCC	BXX701	To be completed in 5 th /6 th semester		3	0	2		03	50	50	100	4
2	IPCC	BXX702	To be completed in 5 th /6 th semester		3	0	2		03	50	50	100	4
3	PCC	BXX703	To be completed in the 6 th semester		4	0	0		03	50	50	100	3
4	PEC	BXX714x	Professional Elective Course (MOOC Courses)		3	0	0		03	50	50	100	3
5	OEC	BXX755x	Open Elective Courses (MOOC courses)		3	0	0		01	50	50	100	3
1	PEC	Bxx801x	Professional Elective (MOOC Courses)		3	0	0		03	50	50	100	3
2	OEC	Bxx802x	Open Elective (MOOC Courses)		3	0	0		01	50	50	100	3
3	PROJ	BXX883	Project - outcome of training		0	0	12		03	100	100	200	9
4	INT	Bxx804	Internship (Industry/Research) (02 semesters)		0	0	12		03	100	100	200	10
										200	200	400	42



Guideline for the students to complete Internship leading to project work;

1. Students seeking an internship leading to project work should **register** for the same at the beginning of the 5th semester only. The college has to send the letter to the Registrar(evaluation) and a copy to the registrar for information.
2. The student's CGPA must be **6.0& above** (1st to 4th Semesters) when they register for the internship that leads to project work, and they must pass all the courses or subjects up to the fourth semester on their first try.
3. Students must **pay the final-year admission fee** to the college before starting the internship leading to the project work.
4. In accordance with **clause 200B3.6.2** maximum credits to register per semester, students must study and pass **28 credits** (this includes ongoing semester credits and additional subjects of 7th semester). It is required to pass BXX701, 702, and 703 courses or subjects before admission to the 7th semester to proceed with industry training that leads to project work.
5. The Registrar(evaluation) has to issue the **confirmation** letter to the student through the college.
6. For these students, the college must designate a **mentor** who will gather their progress reports each month and submit them to the Registrar (Evaluation) for information. Instead of the PEC and OEC courses/subjects, the mentor must assist them in obtaining clearance for the online courses. The relevant board of studies should approve any chosen courses from MOOCs available on **www.online.vtu.ac.in**.
7. The student/s have to communicate with the industry Internship/research Internship/Internship at Startups and **get a confirmation letter** for two-semester duration internships leading to project work before the commencement of the 7th semester.
8. The student has to select the reputed registered industry / MSME registered Startups for the Industry internship leading to the project work in the following areas
 - a. Information Technology (IT)



- b. Software Development.
- c. Engineering.
- d. E-commerce and Retail.
- e. Banking and Financial Services.
- f. Consulting.
- g. Healthcare and Pharmaceuticals.
- h. Media and Entertainment.
- i. Renewable Energy.

(It is the **responsibility** of a college mentor, department head, or principal to verify that the student has chosen the right industry or start-up for their internship.).

9. Under the supervision of a research guide who has been working on a government-funded or premier organization-funded project (for at least 20 lacs), research internship students are required to conduct research in government-funded laboratories, well-established research laboratories at colleges, national R&D centers, research institutes, or the R&D departments of company/industry.
10. Students can also **register** if they are chosen by the university or college **placement** cell for a one-year salaried internship at a company/industry/organization that will result in a job confirmation. (Students who aspire to this kind of opportunity should also sign up for seventh-semester internship-leading project work.) All the rules that pertain to students pursuing industrial or research internships that involve project work also apply to these students. Nonetheless, the project work needs to be completed independently with department faculty supervision.
11. Before the seventh semester begins, students must get **clearance letters** from the industry, research center, or startup firm for each of the aforementioned types of internships.
12. Before the seventh semester begins, the university must provide the students with a letter of approval. Students must finish project work and the internship independently in the seventh and eighth semesters.
13. Students should **cancel their registration** and return to the previous 2022 scheme A of the 7th semester if they are unable to pass the BXX701 to 703 courses before the start of the 7th semester. Nevertheless, their attempt will not be regarded as an attempt, and they will still be eligible to receive their rank in accordance with the



regulations.

14. The students who pass BXX701 to 703 courses before 7th semester but fail to get registration/confirmation for internship/research can take up the remaining courses, project work, and internship as per the semester scheme.
15. Students can participate in research projects or internships in reputable companies or colleges overseas. Students must be aware that the institution or university will not pay for such an internship; instead, they are responsible for covering all of their costs.
16. Students have the option to join a start-up company; however, the college principal must advise them to do so, emphasizing that these companies provide opportunities for learning and skill development. Alternatively, the start-up company must register with the government or the MSME in accordance with the Industry Act.
17. This provision **does not apply to working professionals** admitted to the engineering program. However, if the parent institute/organization is offering working professionals a year of paid leave for internships that result in project work, these cases are handled on a case-by-case basis, and permission may be granted based on the student's request, the dean's recommendations, the Hon. Vice-Chancellors' approval, and an undertaking from the organization, institute, and students.
18. All the internships are mandatory and are to be completed by earning a letter grade ranging from O to C. A candidate who does not take up the internship or does not complete or fails in the assessment shall have to complete it subsequently subject to the provisions of the Regulation governing the B.E./B.Tech. program.

