VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

B.E. in Data Science

Scheme of Teaching and Examinations 2022

Outcome Based Education (OBE) and Choice Based Credit System (CBCS)

(Effective from the academic year 2023-24)

					Te	aching Hou	rs /Week			Exam	ination		
SI. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Theory Lecture	Tut orial	Prac tical / Dra win g	SDA	Dur atio n in hou rs	CIE Mar ks	SEE Mar ks	Total Marks	r e d i
					L	T	P	S					S
1	PCC/BS C	BDS301	Mathematics for Data Science	TD: Maths PSB: Maths	3	2	0		03	50	50	100	4
2	IPCC	BCS302	Digital Design & Computer Organization	TD: DS PSB: CS	3	0	2		03	50	50	100	4
3	IPCC	BCS303	Operating Systems	TD: DS PSB: CS	3	0	2		03	50	50	100	4
4	PCC	BCS304	Data Structures and Applications	TD: DS PSB: CS	3	0	0		03	50	50	100	3
5	PCCL	BCSL305	Data Structures Lab	TD: DS PSB: CS	0	0	2		03	50	50	100	1
6	ESC	BXX306x	ESC/ETC/PLC	TD: DS PSB: CS	2	0	2		03	50	50	100	3
7	UHV	BSCK307	Social Connect and Responsibility	Any Department	0	0	2		01	100		100	1
8	AEC/	BXX358x	Ability Enhancement Course/Skill Enhancement	TD : Concerned department	If th 1	e course is 0	a Theory 0		01	50	50	100	1
Ü	SEC	DAASSOA	Course – III	PSB: CS		ourse is a		ı	02	30	30	100	1
		BNSK359	National Service Scheme (NSS)	NSS coordinator	0	0	2						+
9	МС	BPEK359	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100		100	0
		BYOK359	Yoga	Yoga Teacher									
									Total	550	350	900	2

PCC: Professional Core Course, PCCL: Professional Core Course laboratory, UHV: Universal Human Value Course, MC: Mandatory Course (Non-credit), AEC: Ability Enhancement Course, SEC: Skill Enhancement Course, L: Lecture, T: Tutorial, P: Practical S= SDA: Skill Development Activity, CIE: Continuous Internal Evaluation, SEE: Semester End Evaluation.K: This letter in the course code indicates common to all the stream of engineering. ESC: Engineering Science Course, ETC: Emerging Technology Course, PLC: Programming Language Course

Engineering	Science Course (ESC/ETC/PLC) (Note-Student should opt for the	ne course which	should not be similar to the course opted in 1 st Year)							
BCS306A	BCS306A Object Oriented Programming with Java BDS306C Data Analytics with R									
BDS306B	Python Programming for Data Science									
	Ability Enhancemen	nt Course – III								
BCSL358A	Data Analytics with Excel	BCSL358C	Project Management with Git							
BAI358B	Ethics and Public Policy for Al	BCSL358D	Data Visualization with Python							

Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practicals of the same course. Credit for IPCC can be 04 and its Teaching—Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation governing the Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23 may please be referred.

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.

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(Effective from the academic year 2023-24)

			Teaching Teaching Hours / Week							Exam	ination		
SI. No		rse and se Code	Course Title	Department (TD) and Question Paper Setting Board (PSB)	The ory Lect ure	T u t o ri a I	Prac tical / Dra win g	Self - Study	Dur atio n in hou rs	CIE Mar ks	SEE Mark s	Total Mar ks	C r e d i t
					L	Т	Р	S					
1	PCC/BS C	BCS401	Analysis & Design of Algorithms	TD: DS PSB: CS	3	0	0		03	50	50	100	3
2	IPCC	BDS402	Computer Networks (NS-2/3)	TD: DS PSB: CS	3	0	2		03	50	50	100	4
3	IPCC	BCS403	Database Management Systems	TD: DS PSB: CS	3	0	2		03	50	50	100	4
4	PCCL	BCSL404	Analysis & Design of Algorithms Lab	TD: DS PSB: CS	0	0	2		03	50	50	100	1
5	ESC	BXX405x	ESC/ETC/PLC	TD: DS PSB: CS	2	2	0		03	50	50	100	3
					If th	ie cou	rse is Th	eory	01				
6	AEC/	BDS456x	Ability Enhancement Course/Skill	TD: Concerned department	1	0	0		01	50	50	100	1
U	SEC	DD3430X	Enhancement Course- IV	PSB: CS	If t	he co	urse is a	lab	02	30	30	100	1
					0	0	2		02				
4	BSC	BBOC407	Biology for Computer Engineers	TD / PSB: BT, CHE,	2	0	0		03	50	50	100	2
7	UHV	BUHK408	Universal human values course	Any Department	1	0	0		01	50	50	100	1
		BNSK459	National Service Scheme (NSS)	NSS coordinator									
9	MC	BPEK459	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100		100	0
		BYOK459	Yoga	Yoga Teacher									
									Total	500	400	900	19

PCC: Professional Core Course, **PCCL**: Professional Core Course laboratory, **UHV**: Universal Human Value Course, **MC**: Mandatory Course (Non-credit), **AEC**: Ability Enhancement Course, **SEC**: Skill Enhancement Course, **L**: Lecture, **T**: Tutorial, **P**: Practical **S=SDA**: Skill Development Activity, **CIE**: Continuous Internal Evaluation, **SEE**: Semester End Evaluation. K: This letter in the course code indicates common to all the stream of engineering.

	Ability Enhancement Course / Ski	II Enhancemei	nt Course – IV		
BDSL456A	Scala	BDSL456C	MERN		
BDSL456B	MongoDB	BDSL456D	Julia		
	Engineering Science Cou	rse (ESC/ETC/	PLC)		
BCS405A Discrete Mathematical Structures BCS405C Optimization Technique					
BAI405B	Metric Spaces	BAI405D	Algorithmic Game Theory		

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National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the courses is mandatory for the award of degree.

VISVESVARAYATECHNOLOGICALUNIVERSITY, BELAGAVI

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SchemeofTeachingandExaminations2022

OutcomeBasedEducation(OBE)andChoiceBasedCreditSystem(CBCS)(Effectivefromtheacademicyear2023-24)

V SEM	IESTER													
					TeachingDepartme		Teaching	lours/Weel	(Exam	nination		
SI. No	-	ourse and ourse Code	Course Title		nt(TD)andQuestion PaperSettingBoard (PSB)	The oryL ectu re	T u t o ri a I	Pract ical /Dr awi ng	SDA	Dur atio nin hou rs	CIE Mark s	SEE Mark s	Total Mar ks	C r e d it s
		T				L	Т	Р	S					
1	PCC	BCS501	Software Engineering & Proj Management	ect	TD:DSP SB:DS	4	0	0		03	50	50	100	4
2	IPCC	BDS502	No SQL Databases		TD:DS PSB:DS	3	0	2		03	50	50	100	4
3	PCC	BCS503	Theory of Computation		TD:DS PSB:DS	3	2	0		03	50	50	100	4
4	PCCL	BAIL504	Data Visualization Lab		TD:DSP SB:DS	0	0	2		03	50	50	100	1
5	PEC	BXX515x	Professional Elective Course		TD:DS PSB:DS	3	0	0		03	50	50	100	3
6	PROJ	BDS586	Mini Project		TD:DS PSB:DS	0	0	4		03	100		100	2
7	AEC	BRMK557	Research Methodology and	IPR	TD:DS PSB:DS	2	2	0		02	50	50	100	3
8	HSMS	BCS508	Environmental Studies and Management	E-waste	TD:HSMP SB:HSM	1	0	0		01	50	50	100	1
		BNSK559	National Service Scheme(NSS)		NSS coordinator									
9	MC	BPEK559	Physical Education(PE)(Sports a	and Athletics)	Physical Education Director	0	0	2			100		100	0
		BYOK559	Yoga		Yoga Teacher									
										Total	500	300	800	22
					ofessional Elective Cou	rse				_				
BAI51		Computer Vi		BCS515C	Unix System Pro		ng	BAI5	15E	Explor	atory Da	ata Analys	sis	
BAD5	515B	Data Wareho	ousing	BCS515D	Distributed Syste	ems								

PCC: Professional Core Course, **PCC**I: Professional Core Course laboratory, **UHV**: Universal Human Value Course, **MC**: Mandatory Course (Non-credit), **AEC**: Ability Enhancement Course, **SEC**: Skill Enhancement Course, **L**: Lecture, **T**: Tutorial, **P**: Practical **S=SDA**: Skill Development Activity, **CIE**: Continuous Internal Evaluation, **SXX**: Semester End Evaluation. **K**: The letter in the course code indicates common to all the stream of engineering. **PROJ**: Project /Mini Project. **PEC**: Professional Elective Course

Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practicals of the same course. Credit for IPCC can be 04 and its Teaching–Learning hours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2 : 2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation governing the Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23

National Service Scheme /Physical Education/Yoga: All students have to register for any one of the courses namely National Service Scheme (NSS), Physical Education (PE)(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of the course during the first week of III semesters. Activities shall be carried out between III semester to the VI semester (for 4 semesters). Successful completion of the registered course and requisite CIE score is mandatory for the award of the degree. The events shall be appropriately scheduled by the colleges and the same shall be reflected in the calendar prepared for the NSS, PE, and Yoga activities. These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the course is mandatory for the award of degree.

Mini-project work: Mini Project is a laboratory-oriented/hands on course that will provide a platform to students to enhance their practical knowledge and skills by the development of small systems/applications etc. Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini- project can be assigned to an individual student or to a group having not more than 4 students.

CIE procedure for Mini-project:

- (i) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two faculty members of the Department, one of them being the Guide. The CIE marks awarded for the Mini-project work shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the ratio of 50:25:25. The marks awarded for the project report shall be the same for all the batches mates.
- (ii) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all the guides of the project.

The CIE marks awarded for the Mini-project, shall be based on the evaluation of the project report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

No SEE component for Mini-Project.

Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. Each group will provide an option to select one course. The minimum number of students' strengths for offering a professional elective is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.

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VI SEN	/IESTER		,	om the doddenie	<u>, </u>	· ·							
				Teaching		Teaching	Hours /Wee	ek		Exan	ination		
SI. No		urse and Irse Code	Course Title	Department (TD) and Question Paper Setting Board (PSB)	The ory Lect ure	T u t o ri al	Prac tical / Dra win g	SDA S	Dur atio n in hou rs	CIE Mar ks	SEE Mark s	Total Mark s	C r e d i t
1	IPCC	BDS601	Big Data Analytics	TD: DS PSB: DS	3	0	2		03	50	50	100	4
2	PCC	BDS602	Artificial Intelligence & Machine Learning	TD: DS PSB: DS	4	0	0		03	50	50	100	4
3	PEC	BXX613x	Professional Elective Course	TD: DS PSB: DS	3	0	0		03	50	50	100	3
4	OEC	BXX654x	Open Elective Course	TD: DS PSB: DS	3	0	0		03	50	50	100	3
5	PROJ	BDS685	Project Phase I	TD: DS PSB: DS	0	0	4		03	100		100	2
6	PCCL	BCSL606	Machine Learning lab	TD: DS PSB: DS	0	0	2		03	50	50	100	1
7					If the co	urse is o	ffered as a	Theory					
	AEC/SD	BXX657x	Ability Enhancement Course/Skill Development	TD: DS	1	0	0		01	Ε0	F0	100	1
	С	BXX03/X	Course V	PSB: DS	If cours	e is offe	ered as a p	oractical	01	50	50	100	1
					0	0	2						
		BNSK658	National Service Scheme (NSS)	NSS coordinator									
8	MC	BPEK658	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100		100	0
		BYOK658	Yoga	Yoga Teacher									
9	MC	BIKS609	Indian Knowledge System		1	0	0		01	100		100	0
									Total	500	300	800	18
				ofessional Elective Co		Г							
BAD6	_		age Processing	BCS6			hain Techn						
BDS61	L3B	Exploratory Da	ata Analysis	BAI61	3D	Time S	eries Analy	/sis					

	Open Elective	e Course	
BCS654A	Introduction to Data Structures	BIS654C	Mobile Application Development
BCS654B	Fundamentals of Operating Systems	BAI654D	Introduction to Artificial Intelligence
	Ability Enhancement Course / S	kill Enhancement C	Course-V
BCGL657A	Mobile Application Development with Flutter	BAIL657C	Generative Al
BADL657B	UI/UX	BCSL657D	Devops

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Professional Core Course (IPCC): Refers to Professional Core Course Theory Integrated with practicals of the same course. Credit for IPCC can be 04 and its Teaching—Learning hours (L:T:P) can be considered as (3:0:2) or (2:2:2). The theory part of the IPCC shall be evaluated both by CIE and SEE. The practical part shall be evaluated by only CIE (no SEE). However, questions from the practical part of IPCC shall be included in the SEE question paper. For more details, the regulation governing the Degree of Bachelor of Engineering /Technology (B.E./B.Tech.) 2022-23

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Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. Each group will provide an option to select one course. The minimum number of students' strengths for offering professional electives is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.

Open Elective Courses:

Students belonging to a particular stream of Engineering and Technology are not entitled to the open electives offered by their parent Department. However, they can opt for an elective offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under the guidance of the Program Coordinator/ Advisor/Mentor. The minimum numbers of students' strength for offering Open Elective Course is 10. However, this condition shall not be applicable to class where the admission to the program is less than 10.

Project Phase-I: Students have to discuss with the mentor /guide and with their helphe/she has to complete the literature survey and prepare the report and finally define the problem statement for the project work.

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				Teaching		Teaching	Hours /Wee	k		Exam	ination		
SI. No		urse and urse Code	Course Title	Department (TD) and Question Paper Setting Board (PSB)	The ory Lect ure	T u t o ri al	Prac tical / Dra win g	SDA S	Dur atio n in hou rs	CIE Mar ks	SEE Mark s	Total Mark s	C r e d it s
1	IPCC	BDS701	Parallel Programming	TD: DS PSB: DS	3	0	2		03	50	50	100	4
2	IPCC	BAD702	Statistical Machine Learning for Data Science	TD: DS PSB: DS	3	0	2		03	50	50	100	4
3	PCC	BAD703	Data Security & Privacy	TD: DS PSB: DS	4	0	0		03	50	50	100	4
4	PEC	BDS714x	Professional Elective Course	TD: DS PSB: DS	3	0	0		03	50	50	100	3
5	OEC	BDS755x	Open Elective Course	TD: DS PSB: DS	3	0	0		01	50	50	100	3
6	PROJ	BDS786	Major Project Phase-II	TD: DS PSB: DS	0	0	12		03	100	100	200	6
										400	300	700	24

	Professional Elec	ctive Course		
BCS714A	Deep Learning	BAD714C	Data Engineering & MLOps	
BAD714B	Business Analytics	BAD714D	Social Network Analysis	
	Open Elective	e Course		
BCS755A Introduction to DBMS BCS755C Software Engineering				
BCS755B	Introduction to Algorithms	BCD755D	Data Management	

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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.

Professional Elective Courses (PEC): A professional elective (PEC) course is intended to enhance the depth and breadth of educational experience in the Engineering and Technology curriculum. Multidisciplinary courses that are added supplement the latest trend and advanced technology in the selected stream of engineering. Each group will provide an option to select one course. The minimum number of students' strengths for offering professional electives is 10. However, this conditional shall not be applicable to cases where the admission to the program is less than 10.

Open Elective Courses:

Students belonging to a particular stream of Engineering and Technology are not entitled to the open electives offered by their parent Department. However, they can opt for an elective offered by other Departments, provided they satisfy the prerequisite condition if any. Registration to open electives shall be documented under the guidance of the Program Coordinator/ Advisor/Mentor. The minimum numbers of students' strength for offering Open Elective Course is 10. However, this condition shall not be applicable to class where the admission to the program is less than 10.

PROJECT WORK (21XXP75): The objective of the Project work is

- (i) To encourage independent learning and the innovative attitude of the students.
- (ii) To develop interactive attitude, communication skills, organization, time management, and presentation skills.
- (iii) To impart flexibility and adaptability.
- (iv) To inspire team working.
- (v) To expand intellectual capacity, credibility, judgment and intuition.
- (vi) To adhere to punctuality, setting and meeting deadlines.
- (vii) To install responsibilities to oneself and others.
- (viii)To train students to present the topic of project work in a seminar without any fear, face the audience confidently, enhance communication skills, involve in group discussion to present and exchange ideas.

CIE procedure for Project Work:

(1) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the project work, shall be based on the evaluation of the project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(2) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work, shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE procedure for Project Work: SEE for project work will be conducted by the two examiners appointed by the University. The SEE marks awarded for the project work shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25.

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				Teaching	1	Teaching	Hours /Wee	ek		Exam	ination		
SI. No	Course and Course Code		Course Title	Department (TD) and Question Paper Setting Board (PSB)	The ory Lect ure	T u t o ri al	Prac tical / Dra win g	SDA S	Dur atio n in hou rs	CIE Mar ks	SEE Mark s	Total Mark s	C r e d it s
1	PEC	BDS801x	Professional Elective (Online Courses) Only through NPTEL	PSB: DS	3	0	0		03	50	50	100	3
2	OEC	BDS802x	Open Elective (Online Courses) Only through NPTEL	PSB: DS	3	0	0		01	50	50	100	3
3	INT	BDS803	Internship (Industry/Research) (14 - 20 weeks)		0	0	12		03	100	100	200	10
										200	200	400	16

BDS801A BOS will publish courses based on the availability BDS801C
BDS801B BDS801D

Open Elective Courses (Online Courses)

BDS802A BOS will publish courses based on the availability BDS802C
BDS802B BDS802B BDS802D

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.
- Note: For BDS801x and BDS802x courses BOS will announce list of courses in 6th, 7th & 8th Sem. Students can register in any of the semester to earn the credits in 8th Sem.

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 center, Start-up, center of Excellence (CoE), Study Centre established in the parent institute and /or at reputed research organizations/institutes.

The mandatory Research internship /Industry internship / Rural Internship is 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.

Please note: If any clarifications / suggestions please email to sbhvtuso@yahoo.com