B.E. in Computer Engineering

Scheme of Teaching and Examinations 2022

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

(Effective from the academic year 2023-24)

III JEN	/IESTER				Te	aching Hour	s /Week			Exam	ination		Т
SI. No	Course	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Theory Lecture	Tut orial	Prac tical / Dra win	SDA	Dur atio n in hou rs	CIE Mar ks	SEE Mar ks	Total Marks	C r e d i t
					L	T	P	S					S
1	PCC/BS C	BCS301	Mathematics for Computer Science	TD: Maths PSB: Maths	3	2	0		03	50	50	100	4
2	IPCC	BCS302	Digital Design & Computer Organization	TD: CE PSB : CE	3	0	2		03	50	50	100	4
3	IPCC	BCS303	Operating Systems	TD: CE PSB : CE	3	0	2		03	50	50	100	4
4	PCC	BCS304	Data Structures and Applications	TD: CE PSB : CE	3	0	0		03	50	50	100	3
5	PCCL	BCSL305	Data Structures Lab	TD: CE PSB : CE	0	0	2		03	50	50	100	1
6	ESC	BCS306x	ESC/ETC/PLC	TD: CE PSB : CE	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/	BCS358x	Ability Enhancement Course/Skill Enhancement	TD and PSB: Concerned department	1	e course is 0	0		01	50	50	100	1
Ü	SEC	Desses	Course – III			ourse is a l		ı	02	30	30	100	_
		BNSK359	National Service Scheme (NSS)	NSS coordinator	0	0	2						+-
9	MC	BPEK359	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100		100	0
		ВҮОК359	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	Engineering Science Course (ESC/ETC/PLC) (Note- Student should opt for the course which should not be similar to the course opted in 1st Year)										
BCS306A	Object Oriented Programming with Java										
BCS306B Object Oriented Programming with C++											
	Ability Enhancemen	nt Course – III									
BCS358A	BCS358A Data analytics with Excel BCS358C Project Management with Git										
BCS358B	CS358B R programming BCS358D Data Visualization with Phyton										

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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				Teaching	T	eaching	Hours /We	ek		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	Credits
					L	Т	Р	S					
1	PCC/BS C	BCS401	Analysis & Design of Algorithms	TD: CE PSB : CS	3	0	0		03	50	50	100	3
2	IPCC	BCS402	Microcontrollers	TD: CE PSB : CS	3	0	2		03	50	50	100	4
3	IPCC	BCS403	Database Management Systems	TD: CE PSB : CS	3	0	2		03	50	50	100	4
4	PCCL	BCSL404	Database Management Systems Lab	TD: CE PSB : CS	0	0	2		03	50	50	100	1
5	ESC	BCS405x	ESC/ETC/PLC	TD: CS/Maths PSB : CS/Maths	2	2	0		03	50	50	100	3
	AEC/		Ability Enhancement Course/Skill	TD : Concerned department	If th	e cou	rse is Th	eory	01				_
6	SEC	BCS456x	Enhancement Course- IV	PSB: CS	If t	he cou	ırse is a 2	lab	02	50	50	100	1
4	BSC	BBOC407	Biology For Computer Science	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 / Skill Enhancement Course - IV

	, and a substitution of the substitution of th										
BCS456A	Green IT and Sustainability	BDSL456C	MERN (0:0:2)								
BCS456B	Capacity Planning for IT	BCSL456D	Technical writing using LATEX (Lab) (0:0:2)								
	Engineering Science Course (ESC/ETC/PLC)										
BCS405A	Discrete Mathematical Structures	BCS405C	Optimization Technique								
BCS405B	Graph Theory	BCS405D	Linear Algebra								

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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.

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V SEN	IESTER		1	Г					ı				1
SI. No		ourse and urse Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	The ory Lect ure	T u t o ri a	Prac tical / Dra win	SDA	Dur atio n in hou rs	CIE Mar ks	SEE Mark s	Total Mar ks	C r e d it s
					L	Т	Р	S					
1	HSMS	BCE501	Software Engineering & Project Management (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.)	TD: CE PSB : CE	3	0	0		03	50	50	100	3
2	IPCC	BCE502	Computer Networks	TD: CE PSB : CE	3	0	2		03	50	50	100	4
3	PCC	BCE503	Theory of Computations	TD: CE PSB : CE	3	2	0		03	50	50	100	4
4	PCCL	BCEL504	FPGA Lab	TD: CE PSB : CE	0	0	2		03	50	50	100	1
5	PEC	BCE515x	Professional Elective Course	TD: CE PSB : CE	3	0	0		03	50	50	100	3
6	PROJ	BCE586	Mini Project	TD: CE PSB : CE	0	0	4		03	100		100	2
7	AEC	BRMK557	Research Methodology and IPR	TD: HSM PSB : HSM	2	2	0		02	50	50	100	3
8	MC	BESK508	Environmental Studies	TD: HSM PSB : HSM	2	0	0		02	50	50	100	2

	•								Total	500	300	800	22
			BYOK559	Yoga	Yoga Teacher								
ç		MC	BPEK559	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2		100		100	0
			BNSK559 National Service Scheme (NSS) NSS coordinator Physical Education										

	Professional Elective Course								
BCE515A	Computer Vision	BCE515C	Unix System Programming						
BCE515B	Embedded systems	BCE515D	Distributed Systems						

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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

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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	MESTER			Teaching		Teaching	Hours /Wee	ek		Exam	ination		T
SI. No		urse and rse 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	BCE601	Machine Learning	TD: CE PSB : CE	3	0	2	3	03	50	50	100	4
2	PCC	BCE602	Advanced computer Architecture	TD: CE PSB : CE	4	0	0		03	50	50	100	4
3	PEC	BCE613x	Professional Elective Course	TD: CE PSB : CE	3	0	0		03	50	50	100	3
4	OEC	BCE654x	Open Elective Course	TD: CE PSB : CE	3	0	0		03	50	50	100	3
5	PROJ	BCE685	Project Phase I	TD: CE PSB : CE	0	0	4		03	100		100	2
6	PCCL	BCEL606	Big Data Lab	TD: CE PSB : CE	0	0	2		03	50	50	100	1
7					If the co	urse is o	ffered as a	Theory					
	AEC/SD	BCE657x	Ability Enhancement Course/Skill Development	TD and PSB: Concerned	1	0	0		01	50	50	100	1
	С	BCE03/X	Course V	department	If course is offered as a practical		oractical	01	50	50	100	1	
				acpartment	0	0	2						
		BNSK658	National Service Scheme (NSS)	NSS coordinator									
8	МС	BPEK658	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100		100	0
		BYOK658	Yoga	Yoga Teacher									
-									Total	500	300	800	18

	Professional Elective Course									
BCE613A	Blockchain Technology	BCE613C	Compiler Design							
BCE613B	Mobile Application Development	BCE613D	Cloud Computing							
	Open Elective	Course								
BCE654A	Introduction to Data Structures	BCE654C	Computer Architecture							
BCE654B	Fundamentals of Operating Systems	BCE654D	Mobile Application Development							

Ability Enhancement Course / Skill Enhancement Course-V

	, ,		
BCE657A	UI/UX	BCE657C	Cyber Law
BCE657B	Tosca – Automated Software Testing	BCE657D	FOSS

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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

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.

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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VIISE	MESTER (Sw	appable VII and V	/III SEMESTER)		-										
				Teaching	g	Teaching	Hours /Wee	ek		Exam	ination				
SI. No		ourse and urse Code	Course Title	Department and Questi Paper Setti Board (PS	on The ory	T u t o ri al	Prac tical / Dra win g	SDA	Dur atio n in hou rs	CIE Mar ks	SEE Mark s	Total Mark s	C r e d it s		
		T			L	Т	Р	S							
1	IPCC	BCE701	Internet of Things	TD: CE PSB : C	1 3	0	2		03	50	50	100	4		
2	IPCC	BCE702	High Performance Computing	TD: CE PSB : C	1 2	0	2		03	50	50	100	4		
3	PCC	BCE703	Cryptography & Network Security	TD: CE PSB : C	Ι Δ	0	0		03	50	50	100	4		
4	PEC	BCE714x	Professional Elective Course	TD: CE PSB : C	1 3	0	0		03	50	50	100	3		
5	OEC	BCE755x	Open Elective Course	TD: CE PSB : C	1 3	0	0		01	50	50	100	3		
6	PROJ	BCE786	Major Project Phase-II	TD: CE PSB : C	1 ()	0	12		03	100	100	200	6		
										400	300	700	24		
				Professional Elect	ive Course										
BCE71	L4A	Deep Learning	3		BCE714C		omputing		-			-			
BCE71	L4B	Natural Langu	age Processing		BCE714D	Big Da	ta Analytic	S							
D.CE 77	- F A		<i>P P</i> 1 (0	Open Elective (C - C+									
BCE75	introduction to DBIVIS				BCE755C		re Enginee								
BCE75	Introduction to Algorithms				BCE755D	Embedded Systems									

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.

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 (21CEP75): 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 guestion and answer session in the ratio 50:25:25.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

B.E. in Computer Engineering

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

(Effective from the academic year 2023-24)

VIII JE	IVILOTEIN (3	wappable VII and	VIII SLIVIES I EK	Ta a abia	_	Toochine	Hours /We	ok.		Evan	ination		т —
-		ourse and urse Code	Course Title	Teaching Department and Questi Paper Setti Board (PS	(TD) on The ing ory	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 e Mark d s it s	C r e d it s
1	PEC	BCE801x	Professional Elective (Online Courses) Only through NPTEL	PSB : CE	3	0	0		03	50	50	100	3
2	OEC	BCE802x	Open Elective (Online Courses) Only through NPTEL	PSB : CE	3	0	0		01	50	50	100	3
3	INT	BCE803	Internship (Industry/Research) (14 - 20 weeks)		0	0	12		03	100	100	200	10
										200	200	400	16
			Professional	Elective Cour	se (Online cou	rses)	•	•	•		•		
BCE80	1A	BOS will publish courses based on the availability			BCE801C								
BCE801B					BCE801D				-				
			Open Ele	ctive Courses (Online Courses)								
BCE80	2A	BOS will publish courses based on the availability			BCE802C								
BCE802B					BCE802D								

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 BCE801x and BCE802x 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