				TECHNOLOGICAL UN										
				f Teaching and Exan		0								
			Outcome Based Educati	-			em (CB	CS)						
			(Effective	from the academic	year 2023	-24)	-	-						
III SEN	<b>NESTER</b>	ſ		1	-			I			•			
SI. No	No	Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Theory Lecture	Theory Tuto			SDA	Dur atio n in hou rs	CIE Mar ks	ination SEE Mar ks	Total Marks	C r e d i t
					L	Т	Р	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 : AI PSB : CS	3	0	2		03	50	50	100	4	
3	IPCC	BCS303	Operating Systems	TD : AI PSB : CS	3	0	2		03	50	50	100	4	
4	PCC	BCS304	Data Structures and Applications	TD : Al PSB : CS	3	0	0		03	50	50	100	3	
5	PCCL	BCSL305	Data Structures Lab	TD : AI PSB : CS	0	0	2		03	50	50	100	1	
6	ESC	BXX306x	ESC/ETC/PLC	TD : AI 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 and PSB: Concerned department	1	ne course is 0	0		01	50	50	100	1	
U	SEC	BAASSOA	Course – III		If a course is a l		laboratory 2		02	50	50	100	1	
		BNSK359	National Service Scheme (NSS)	NSS coordinator	0	5	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	

JBOS 10.02.2023 / V5

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

•									
Enginee	ring Science Course (ESC/ETC/PLC) (Note- Student should opt for	or the course which	should not be similar to the course opted in 1 <sup>st</sup> Year)						
BCS306A	Object Oriented Programming with Java	BDS306C	Data Analytics with R						
BDS306B Python Programming for Data Science BAI306D									
	Ability Enhance	ment Course – III							
BCS358A	Data Analytics with Excel	BCS358C	Project Management with Git						
BAI358B     Ethics and Public Policy for AI     BAI358D     PHP Programming									

**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 refered.

**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.

				DLOGICAL UNIVERS									
				ntelligence and Ma			ng						
				aching and Examin									
			Outcome Based Education (				/stem (C	.BCS)					
	<b>AESTER</b>		(Effective fro	m the academic ye	ar 2023	-24)							
				Teaching	1	eaching	Hours /We	ek		Exam	ination		
		rse and se Code	Course Title		The ory Lect ure	T u t 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	
					L	Т	Р	S				ļ	_
1	PCC/BS C	BCS401	Analysis & Design of Algorithms	TD : AI PSB : CS	3	0	0		03	50	50	100	
2	IPCC	BAI402	Artificial Intelligence	TD : AI PSB : CS	3	0	2		03	50	50	100	,
3	IPCC	BCS403	Database Management Systems	TD : AI PSB : CS	3	0	2		03	50	50	100	
4	PCCL	BCSL404	Analysis & Design of Algorithms Lab	TD : AI PSB : CS	0	0	2		03	50	50	100	
5	ESC	BXX405x	ESC/ETC/PLC	TD: AI/Maths PSB : CS/Maths	2	2	0		03	50	50	100	3
					lf th	e cou	rse is Th	eory	01				
6	AEC/	BDS456x	Ability Enhancement Course/Skill	TD : AI PSB : CS	1	0	0		01	50	50	100	
0	SEC	0034307	Enhancement Course- IV	150.05	lf t	he co	urse is a	lab	02	50	50	100	
					0	0	2					<u> </u>	
4	BSC	BBOK407	Biology For Engineers	TD / PSB: BT, CHE,	2	0	0		03	50	50	100	
7	UHV	BUHK408	Universal human values course	Any Department	1	0	0		01	50	50	100	
		BNSK459	National Service Scheme (NSS)	NSS coordinator									
9	МС	BPEK459	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100		100	
		BYOK459	Yoga	Yoga Teacher									

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 / Sk	ill Enhanceme	nt Course – IV									
BDS456A	Scala	BDS456C	MERN									
BDS456B	MangoDB	BDS456D	Julia									
	Engineering Science Cou	irse (ESC/ETC/	PLC)									
BCS405A	BCS405A Discrete Mathematical Structures BAI405C Optimization for Machine Learning											
BAI405B	BAI405B Metric Spaces BAI405D Algorithmic Game Theory											
Professional C	Core Course (IPCC): Refers to Professional Core Course Theory Integrate	d with practical	of the same course. Credit for IPCC can be 04 and its Teaching-									
Learning hour	s (L : T : P) can be considered as $(3:0:2)$ or $(2:2:2)$ . The theory par	t of the IPCC sh	all 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 includ	led 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 Serv	ice Scheme /Physical Education/Yoga: All students have to register	for any one o	f the courses namely National Service Scheme (NSS), Physical									
Education (PE)	(Sports and Athletics), and Yoga(YOG) with the concerned coordinator of	of the course du	ring the first week of III semesters. Activities shall be carried out									
between III se	mester to the VI semester (for 4 semesters). Successful completion of t	he registered c	ourse 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.

14.09.2023

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

B.E. in Artificial Intelligence and Machine Learning

## Scheme of Teaching and Examinations2022

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

(Effective from the academic year 2023-24)

	IESTER			Teaching	1	reaching	Hours /Wee	ek		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 a I	Prac tical / Dra win g	SDA	Dur atio n in hou rs	CIE Mar ks	SEE Mark S	Total Mar ks	C r d it s
					L	Т	Р	S					
1	HSMS	BAI501	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 : AI PSB : AI	3	0	0		03	50	50	100	3
2	IPCC	BAI502	Computer Networks	TD : AI PSB : AI	3	0	2		03	50	50	100	4
3	PCC	BAI503	Theory of Computation	TD : AI PSB : AI	3	2	0		03	50	50	100	4
4	PCCL	BAIL504	Data Visualization Lab	TD : AI PSB : AI	0	0	2		03	50	50	100	1
5	PEC	BAI515x	Professional Elective Course	TD : AI PSB : AI	3	0	0		03	50	50	100	3
6	PROJ	BAI586	Mini Project	TD : AI PSB : AI	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
		BNSK559	National Service Scheme (NSS)	NSS coordinator		1							
9	МС	BPEK559	Physical Education (PE) (Sports and Athletics)	Physical Education Director	0	0	2			100		100	0
		BYOK559	Yoga	Yoga Teacher									

Professional Elective Course           BAI515A         Computer Vision         BAI515C         Nonlinear Control Techniques			22							
Professional Elective Course										
BAI515A	Computer Vision	BAI515C	Nonlinear Control Techniques							
BAI515B	Information Theory and Coding	BAI515D	Distributed Systems							

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, SAI: Semester End Evaluation. K: The letter in the course code indicates common to al 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.

# VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

B.E. in Artificial Intelligence and Machine Learning

## Scheme of Teaching and Examinations2022

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

(Effective from the academic year 2023-24)

				Teaching	5	Т	eaching	Hours /Wee	ek		Exam	ination		
SI. No		urse and Irse Code	Course Title	Department ( and Questic Paper Settir Board (PSI	on ng	The ory Lect ure L	T u t o ri al T	Prac tical / Dra win g P	SDA S	Dur atio n in hou rs	CIE Mar ks	SEE Mark S	Total Mark S	C r d it s
1	IPCC	BAI601	Natural Language Processing	TD : AI PSB : AI		3	0	2		03	50	50	100	4
2	PCC	BAI602	Machine Learning -I	TD : AI PSB : AI		4	0	0		03	50	50	100	4
3	PEC	BAI613x	Professional Elective Course	TD : AI PSB : AI		3	0	0		03	50	50	100	3
4	OEC	BAI654x	Open Elective Course	TD : AI PSB : AI		3	0	0		03	50	50	100	3
5	PROJ	BAI685	Project Phase I	TD : AI PSB : AI		0	0	4		03	100		100	2
6	PCCL	BAIL606	Machine Learning lab	TD : AI PSB : AI		0	0	2		03	50	50	100	1
7						f the co	course is offered as a Theory							
	AEC/SD	AEC/SD Ability	Ability Enhancement Course/Skill Development	TD and PSB:		1 0 0			- 0	- 0	100			
	C	BAI657x	Course V	Concernee	· I I	lf cours	e is offe	ered as a p	oractical	01	50	50	100	1
				departmer	n —	0	0	2						
		BNSK658	National Service Scheme (NSS)	NSS coordina	ator									
8	MC	BPEK658	Physical Education (PE) (Sports and Athletics)	Physical Educa Director		0	0	2			100		100	0
		BYOK658	Yoga	Yoga Teach	ier	1								
										Total	500	300	800	18
		1		ofessional Electiv		e								
BAI613	-	Human-Centre	· •		BAI613C			nain Techn						
BAI613	AI613B Cloud Computing Open Electiv			E	BAI613D		Time S	eries Analy	/sis					

BAI654A	Introduction to Data Structures	BAI654C	Mobile Application Development
BAI654B	Fundamentals of Operating Systems	BAI654D	
BAI657A	Explainable Al	nhancement Course / Skill Enhancemen BAI657C	Generative Al
BAI657B	PyTorch	BAI657C BAI657D	Devops
	,		an Value Course, <b>MC</b> : Mandatory Course (Non-credit), <b>AEC</b> : Abilit
	-		Skill Development Activity, <b>CIE</b> : Continuous Internal Evaluation, <b>SEE</b>
Semester E	nd Evaluation. <b>K :</b> The letter in the course code indicat	es common to al the stream of	engineering. PROJ: Project /Mini Project. PEC: Professional Elective
	DJ: Project Phase -I, OEC: Open Elective Course		
Professiona	Il Core Course (IPCC): Refers to Professional Core Cour	rse Theory Integrated with practi	icals of the same course. Credit for IPCC can be 04 and its Teaching-
Learning ho	ours (L : T : P) can be considered as (3 : 0 : 2) or (2 : 2	: 2). The theory part of the IPC	C shall be evaluated both by CIE and SEE. The practical part shall b
evaluated k	by only CIE (no SEE). However, questions from the p	ractical part of IPCC shall be in	cluded in the SEE question paper. For more details, the regulatio
governing t	he Degree of Bachelor of Engineering /Technology (B.E	./B.Tech.) 2022-23	
National Se	ervice Scheme /Physical Education/Yoga: All stude	nts have to register for any on	e of the courses namely National Service Scheme (NSS), Physica
		<b>v</b> ,	e during the first week of III semesters. Activities shall be carried ou
			ed course and requisite CIE score is mandatory for the award of the
			ected in the calendar prepared for the NSS, PE, and Yoga activities
-		-	GPA and CGPA, but completion of the course is mandatory for th
award of de			and cond, but completion of the course is manuatory for th
		course is intended to enhance 1	the depth and breadth of educational experience in the Engineerin
			id and advanced technology in the selected stream of engineering
			hs for offering professional electives is 10. However, this conditional
0 1	applicable to cases where the admission to the progra	Ŭ	
	ve Courses:		
•		nology are not entitled to the or	pen electives offered by their parent Department. However, they ca
		•••	if any. Registration to open electives shall be documented under th
			ngth for offering Open Elective Course is 10. However, this condition
-	-		ight for othering open elective course is 10. However, this conditio
	applicable to class where the admission to the progra	II IS 1855 LIIdii 10.	
			complete the literature survey and prepare the report and finally

define the problem statement for the project work.

			VISVESVARAYA	TECHNOLOGICA	L UNIVERSIT	Y, BELA	AGAVI						
			B.E. in Artific	ial Intelligence a	and Machine	e Learn	ing						
			Scheme o	of Teaching and	Examination	s2022	-						
			Outcome Based Educati	ion (OBE) and Ch	oice Based (	Credit S	System (	CBCS)					
				e from the acade			, ,	,					
VIISEN	/IESTER (Sw	vappable VII and V											
		••		Teaching	5	Teaching	Hours /Wee	ek		Exam	ination		
SI. No		ourse and urse Code	Course Title		(TD) on The ng ory B) Lect ure	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 d it s
					L	т	P	s					5
1	IPCC	BAI701	Deep Learning & Reinforcement Learning	TD : Al PSB : Al	3	0	2		03	50	50	100	4
2	IPCC	BAI702	Machine Learning -II	TD : Al PSB : Al	3	0	2		03	50	50	100	4
3	PCC	BAI703	Data Security & Privacy	TD : AI PSB : AI	4	0	0		03	50	50	100	4
4	PEC	BAI714x	Professional Elective Course	TD : AI PSB : AI	3	0	0		03	50	50	100	3
5	OEC	BAI755x	Open Elective Course	TD : AI PSB : AI	3	0	0		01	50	50	100	3
6	PROJ	BAI786	Major Project Phase-II	TD : AI PSB : AI	0	0	12		03	100	100	200	6
										400	300	700	24
				<b>Professional Electi</b>	ve Course								
BAI714		IOT Analytics			BAI714C	Data E	ngineering	& MLOps					
BAI714	BAI714B Business Analytics			BAI714D	Big Da	ta Analytic	S						
D 4177	- •		22146	Open Elective (									
BAI75				BAI755C	Softwa	are Enginee	ering						
BAI75			5		BAI755D						in at 14/		<b>ab</b>
			<pre>irse, PCCL: Professional Core Course labora SDA: Skill Development Activity, CIE: Conti</pre>				-	•			•	•	

## 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 (21AIP75): 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.

			VISVESVARAYA TECH	HNOLOGIC	AL UNI	VERSIT	, BELA	GAVI						
			B.E. in Artificial Ir	ntelligence	and N	lachine	Learn	ing						
			Scheme of Te	aching and	l Exami	ination	s <b>2022</b>							
			Outcome Based Education (	OBE) and (	Choice I	Based C	redit S	ystem (	CBCS)					
			(Effective from	m the acad	emic y	ear 202	3-24)							
VIII SEI	MESTER (S	wappable VII and	VIII SEMESTER)			r				1	_			<del></del>
				Teachi Departmen	-		Teaching	Hours /We Prac	ek		Exam	nination		с
SI. No		urse and urse Code	and Course Title		tion ting SB)	The ory Lect ure	u t o ri al	tical / Dra win g	SDA	Dur atio n in hou rs	CIE Mar ks	SEE Mark s	Total Mark s	r e d it s
						L	т	Р	S					
1	PEC	BAI801x	Professional Elective (Online Courses) Only through NPTEL	PSB : AI		3	0	0		03	50	50	100	3
2	OEC	BAI802x	Open Elective (Online Courses) Only through NPTEL	PSB : A	AI	3	0	0		01	50	50	100	3
3	INT	BAI803	Internship (Industry/Research) (14 - 20 weeks)			0	0	12		03	100	100	200	10
											200	200	400	16
			Professional	Elective Cou	rse (Onli	ine cours	es)					•		
BAI801	LA	BOS will publis	sh courses based on the availability		BAI8010	5								
BAI801	LB				BAI8011	-								
D 4 10 0 2		DOC will weblin		ctive Courses	· · · · · · · · · · · · · · · · · · ·									
BAI802A BOS will publish courses based on the availability BAI802B					BAI8020 BAI8021	-								
		Tutorial <b>P</b> · P	ractical <b>S= SDA</b> : Skill Development Activity, <b>CIE</b>	Continuo		_	uation	SFF: Sei	nester F	nd Evalu	ation. TD	- Teachin	g Depart	ment
	-	-	nent, <b>OEC</b> : Open Elective Course, <b>PEC</b> : Professi				-						• •	-
	Internsh	• •	nent, ole. Open lieuwe course, PLC. Profess			JC. FAC	<b>.</b> 0j		, <b>IIVI</b> . III	uustiy II	iternsnip	/ Nesean		mh /
Note:	: VII and	VIII semester	rs 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 BAI801x and BAI802x courses BOS will announce list of courses in 6<sup>th</sup>, 7<sup>th</sup> & 8<sup>th</sup> Sem. Students can register in any of the semester to earn the credits in 8<sup>th</sup> 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