2018 2nd Yn.
2 (3-Sem)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examination 2018 - 19

Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 10)

III S	SEMESTE	R	(Effective from t	ne academic y	year 201	18 – 19)					
					Teachir	ig Hours	/Week		Exai	nination		T
Sl. No		arse and rse Code	Course Title	Teaching Department	Theory	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P	1 -	0	S	F	
1	BSC	18MAT31	Transform Calculus, Fourier Series And Numerical Techniques	Mathematics	2	2		03	40	60	100	3
3	PCC	18CS32	Data Structures and Applications	CS / IS	3	2		03	40	60	100	1
	PCC	18CS33	Analog and Digital Electronics	CS / IS	3	0		03	40	60	100	3
4	PCC	18CS34	Computer Organization	CS / IS	3	0		03	40	60	100	_
5	PCC	18CS35	Software Engineering	CS / IS	3	0		03	40			3
6	PCC	18CS36	Discrete Mathematical Structures	CS / IS	3	0	-	03	-	60	100	3
7	PCC	18CSL37	Analog and Digital Electronics Laboratory	CS/IS		2	2	03	40	60	100	2
8	PCC	18CSL38	Data Structures Laboratory	CS / IS		1	-	0.0				
		18KVK39	Vyavaharika Kannada (Kannada for communication)/	C3713		2	2	03	40	60	100	2
9	HSMC	18KAK39	Aadalitha Kannada (Kannada for Administration)	HSMC		2			100			
		OR	OR	TISIVIC	7						100	1
		18CPC39	Constitution of India, Professional Ethics and Cyber Law		1 Evans			02	40	60		
					17	nation is	s by obje	ctive ty				
				TOTAL	OR	OR	04	24 OD	420	480	000	
					18	10	04	OR 26	OR 360	OR	900	24
					10	10		40	300	540		i

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course 18KVK39 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK39 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

Course prescribed to lateral entry Diploma holders admitted to III semester of Engineering programs 18MATDIP31 Additional Mathematics - I Mathematics 02 01 -- 03 40 60

(a)The mandatory non – credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B.Tech. programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/ fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the students have to fulfill the requirements during subsequent

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs

Lateral entrant students from B.Sc. Stream, shall clear the non-credit courses Engineering Graphics and Elements of Civil Engineering and Mechanics of the First Year Engineering Programme. These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree.

AICTE Activity Points to be earned by students admitted to BE/B.Tech./B. Plan. day college programme (For more details refer to Chapter 6,AICTE Activity Point Programme, Model Internship Guidelines): Over and above the academic grades, every Day College regular student admitted to the 4 years Degree programme and every student entering 4 years Degree programme through lateral entry, shall earn 100 and 75 Activity Points respectively for the award of degree through AICTE Activity Point Programme. Students transferred from other Universities to fifth semester are required to earn 50 Activity Points from the year of entry to VTU. The Activity Points earned shall be reflected on the student's eighth semester Grade Card. The activities can be spread over the years, anytime during the semester weekends and holidays, as per the liking and convenience of the student from the year of entry to the programme. However, minimum hours' requirement should be fulfilled. Activity Points (non-credit) have no effect on SGPA/CGPA and shall not be considered for vertical progression. In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

'va's Institute of Engg. & Technology, Inijar, MOODBIDRI - 574 225, D.K

Dept. Of Information Science & Engineering Alva's Institute of the All Cachnology Mijar, MOODS 10. 0 - 574 225

2018-22-year (4-Sm)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examination 2018 - 19

Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2019 10)

11	SEMESTE	K	1		T =							
					Teachin	g Hours	/Week		Exan	nination	,	-
SI. No	1	urse and rse Code	Course Title	Teaching Department	Theory	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
	-	T			L	T	P					
1	BSC	18MAT41	Complex Analysis, Probability And Statistical Methods	Mathematics	2	2		03	40	60	100	3
2	PCC	18CS42	Design and Analysis of Algorithms	CS / IS	3	2	-	03	40	60	100	4
3	PCC	18CS43	Operating Systems	CS / IS	3	0		03	40	60	100	3
4	PCC	18SC44	Microcontroller and Embedded Systems	CS / IS	3	0	-	03	40	60	100	3
5	PCC	18CS45	Object Oriented Concepts	CS / IS	3	0		03	40	60	100	3
6	PCC	18CS46	Data Communication	CS / IS	3	0		03	40	60	100	3
7	PCC	18CSL47	Design and Analysis of Algorithm Laboratory	CS / IS		2	2	03	40	60	100	2
8	PCC	18CSL48	Microcontroller and Embedded Systems Laboratory	CS / IS		2	2	03	40	60	100	2
		18KVK49	Vyavaharika Kannada (Kannada for communication)/									
9	HSMC	18KAK49	Aadalitha Kannada (Kannada for Administration)	HSMC	-	2	-		100		100	
- 1		OR	OR								100	1
		18CPC39	Constitution of India, Professional		1			02	40	60		
			Ethics and Cyber Law		Exami	nation is	by obje	ctive typ	e quest	ions		
					17	08		24	420	480		
				TOTAL	OR	OR	04	OR	OR	OR	900	24
					18	10	Γ	26	360	540		

Note: BSC: Basic Science, PCC: Professional Core, HSMC: Humanity and Social Science, NCMC: Non-credit mandatory course 18KVK49 Vyavaharika Kannada (Kannada for communication) is for non-Kannada speaking, reading and writing students and 18KAK49 Aadalitha Kannada (Kannada for Administration) is for students who speak, read and write Kannada.

		Course prescril	bed to lateral entry Diploma	holders admitte	d to III s	emeste	r of Fn	gineeri	ng pro			
10	NCMC	18MATDIP41	Additional Mathematics - II	Mathematics	02	01	OI LII	02		grams		
					02	01		03	40	60	100	0

(a) The mandatory non - credit courses Additional Mathematics I and II prescribed for III and IV semesters respectively, to the lateral entry Diploma holders admitted to III semester of BE/B.Tech programs, shall attend the classes during the respective semesters to complete all the formalities of the course and appear for the University examination. In case, any student fails to register for the said course/ fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have secured F grade. In such a case, the student have to fulfil the requirements during subsequent semester/s to appear for SEE.

(b) These Courses shall not be considered for vertical progression, but completion of the courses shall be mandatory for the award of degree

Courses prescribed to lateral entry B. Sc degree holders admitted to III semester of Engineering programs AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

H. O. D.

Dept. Of Information Science & Engineering Alva's Institute of Engg. & Technology Mijar, MOODBIDRI - 574 225

" Institute of Engg. & Technology, 6 Jar. MOODBIDRI - 574 225, D.K

2018 - 3rd Years

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2018 - 19

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

(Effective from the academic year 2018 - 19)

V SE	MESTER					ing Ho	ours		Exami	nation		P
SI. No		rse and rse code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	T	P					
1	HSMC	18CS51	Management, Entrepreneurship for IT Industry	HSMC	2	2		03	40	60	100	3
2	PCC	18CS52	Computer Networks and Security	CS/IS	3	2	-	03	40	60	100	4
3	PCC	18CS53	Database Management System	CS / IS	3	2		03	40	60	100	4
4	PCC	18CS54	Automata theory and Computability	CS / IS	3	-		03	40	60	100	3
5	PCC	18CS55	Application Development using Python	CS / IS	3	-	-	03	40	60	100	3
6	PCC	18CS56	Unix Programming	CS / IS	3	-		03	40	60	100	3
7	PCC	18CSL57	Computer Network Laboratory	CS / IS		2	2	03	40	60	100	2
8	PCC	18CSL58	DBMS Laboratory with mini	CS / IS		2	2	03	40	60	100	2
9	HSMC	18CIV59	Environmental Studies	Civil/ Environmental [Paper setting: Civil Engineering Board]	1			02	40	60	100	1
				TOTAL	18	10	04	26	360	540	900	25

Note: PCC: Professional Core, HSMC: Humanity and Social Science.

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

PRINCIPAL

Mijar. MOODBIDRI - 574 225, D.K.Dent Of Information Science & Engineering Rive's Institute of Engg. & Technology,

Alva's Institute of Engg. & Technology Mijar, MOODBIDRI - 574 225

2018-32 year (6-Sun) 5

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examination 2018 - 19

Outcome Based Education (OBE) and Choice Based Credit System (CBCS) (Effective from the academic year 2018 - 19)

					Teach	ing Hou	s /Week		Exar	nination		T
Sl. No		ourse and ourse code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Fotal Marks	Credite
1	PCC	18IS61	File Structures		L	T	P		S	S	To	
2	PCC	18IS62	Software Testing	CS / IS	3	2		03	40	60	100	4
3	PCC	18CS63	Web Technology and its applications	CS/IS	3	2		03	40	60	100	4
4	PEC	18CS64X	Professional Elective -1	CS/IS	3	2		03	40	60	100	4
5	OEC	18CS65X	Open Elective –A	CS/IS	3			03	40	60	100	3
6	PCC	18ISL66	Software Testing Laboratory	CS/IS	3			03	40	60	100	3
7	PCC	18ISL67	File Structures Laboratory with mini	CS/IS		2	2	03	40	60	100	2
,	100		project Eaboratory with mini	CS/IS		2	2	03	40	60	100	2
8	MP	18CSMP68	Mobile Application Development	CC /IC				03			100	_
,	Dim		Ti sateri Bevelopinelli	CS/IS			2	03	40	60	100	2
	INT		Internship	(To be carri intervening semesters)	ed out du vacations	ring the of VI a	nd VII					
			PEC: Professional Elastica OF	TOTAL	15	10	06	24	320	480	800	24

Note: PCC: Professional core, PEC: Professional Elective, OE: Open Elective, MP: Mini-project, INT: Internship.

	project, 141: Internship.
Course code under18XX64X	Professional Elective -1
10000044	Course Title
18CS641	Data Mining and Data Warehousing
18CS642	Object Of the Control
18CS643	Object Oriented Modelling and Design
	Cloud Computing and its Applications
18CS644	Advanced JAVA and J2EE
18IS645	Information of AvA and JZEE
	Information Management System
10.7	Open Elective –A (Not for CSE / ISE Programs)
18CS651	Mobile Application Development
18CS652	Introduction Development
	Introduction to Data Structures and Algorithms
18CS653	Programming in JAVA
18CS654	Introduction O
Students can select any one of the one	and electron to Operating System
Selection of an open elective is not all	mirroduction to Operating System n electives offered by any Department(Please refer to the list of open electives under 18CS65X)

Students can select any one of the open electives offered by any Department(Please refer to the list of open electives under 18CS65X). Selection of an open elective is not allowed provided,

- The candidate has studied the same course during the previous semesters of the programme.
- The syllabus content of open elective is similar to that of Departmental core courses or professional electives.
- A similar course, under any category, is prescribed in the higher semesters of the programme.

Registration to electives shall be documented under the guidance of Programme Coordinator/ Adviser/Mentor

Mini-project work: Based on the ability/abilities of the student/s and recommendations of the mentor, a single discipline or a multidisciplinary Mini-project can be 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 senior faculty members of the Department, one of whom shall be the Guide. The CIE marks awarded for the Mini-project work, shall be based on the evaluation of 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.

(ii) Interdisciplinary: Continuous Internal Evaluation shall be group wise at the college level with the participation of all the guides of the college. The CIE marks awarded for the Mini-project, shall be based on the evaluation of project report, project presentation skill and question and answer session in the ratio 50:25:25. The marks

(i) Single discipline: Contribution to the Mini-project and the performance of each group member shall be assessed individually in the semester end examination (SEE)

(ii) Interdisciplinary: Contribution to the Mini-project and the performance of each group member shall be assessed individually in semester end examination (SEE)

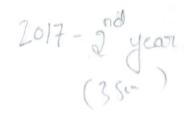
Internship: All the students admitted to III year of BE/B. Tech shall have to undergo mandatory internship of 4 weeks during the vacation of VI and VII semesters and /or VII and VIII semesters. A University examination shall be conducted during VIII semester and the prescribed credit shall be included in VIII semester. Internship shall be vii and viii semesters. A University examination snail be considered during viii semester and the prescribed credit snail be included in viii semester, internship snail be considered for the award of degree. Those, who do not takeup/complete the internship shall be declared fail and shall have to

AICTE activity Points: In case students fail to earn the prescribed activity Points, Eighth semester Grade Card shall be issued only after earning the required activity Points. Students shall be admitted for the award of degree only after the release of the Eighth semester Grade Card.

> Liva's Institute of Engg. & Technology, Mijur. MOODBIDRI - 574 225, D.K

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BLAGAVI Scheme of Teaching and Examination 2017-2018

Choice Based Credit System (CBCS)



B.E: Information Science and Engineering

III SEMESTER

Sl.			Teaching	Teaching	Hours /Week		Exami	nation		Credits
No	Course Code	Title	Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT31	Engineering Mathematics - III	Maths	04		03	60	40	100	4
2	17CS32	Analog and Digital Electronics	CS/IS	04		03	60	40	100	4
3	17CS33	Data Structures and Applications	CS/IS	04		03	60	40	100	4
4	17CS34	Computer Organization	CS/IS	04		03	60	40	100	4
5	17CS35	Unix and Shell Programming	CS/IS	03		03	60	40	100	3
6	17CS36	Discrete Mathematical Structures	CS/IS	04		03	60	40	100	4
7	17CSL37	Analog and Digital Electronics Laboratory	CS/IS	01-Hour Ir 02-Hour P		03	60	40	100	2
8	17CSL38	Data Structures Laboratory	CS/IS	01-Hour Ir 02-Hour P		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
		TOTAL			: 24hours al: 06 hours	25	510	340	850	28

1.Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have to teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

2. Audit Course:

(i) *All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics – I, which is 03 contact hours per week.

1	17MATDIP31	Additional Mathematics –I	Maths	03		03	60		60		
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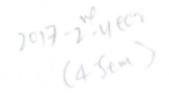
(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B.Sc candidates)

) PRINCIPAL

i stitute of Engg. & Technology,

VISVESVAPAYA TECHNOLOGICAL UNIVERSITY, 017 LAGAVI Scheme of Teaching and Examination 2017-2018

Choice Based Credit System (CBCS)



B.E: Information Science and Engineering

IV SEMESTER

SI.			Teaching	Teaching H	ours /Week		Exami	nation		Credits
No	Course Code	Title	Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17MAT41	Engineering Mathematics - IV	Maths	04		03	60	40	100	4
2	17CS42	Object Oriented Concepts	CS/IS	03		03	60	40	100	3
3	17CS43	Design and Analysis of Algorithms	CS/IS	04		03	60	40	100	4
4	17CS44	Microprocessors and Microcontrollers	CS/IS	04		03	60	40	100	4
5	17CS45	Software Engineering	CS/IS	04		03	60	40	100	4
6	17CS46	Data Communication	CS/IS	04		03	60	40	100	4
7	17CSL47	Design and Analysis of Algorithm Laboratory	CS/IS	01-Hour Instr 02-Hour Prac		03	60	40	100	2
8	17CSL48	Microprocessors Laboratory	CS/IS	01-Hour Instr 02-Hour Prac		03	60	40	100	2
9	17KL/CPH39/49	Kannada/Constitution of India, Professional Ethics and Human Rights	Humanities	01		01	30	20	50	01
			TOTAL	Theory: 24 Practical: 06		25	510	340	850	28

^{1.} Kannada/Constitution of India, Professional Ethics and Human Rights: 50 % of the programs of the Institution have to teach Kannada/Constitution of India, Professional Ethics and Human Rights in cycle based concept during III and IV semesters.

2. Audit Course:

(i) *All lateral entry students (except B.Sc candidates) have to register for Additional Mathematics - II, which is 03 contact hours per week.

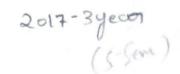
1	17MATDIP41	Additional Mathematics -II	Maths	03	03	60		60	 -
-							1		6

(ii) Language English (Audit Course) be compulsorily studied by all lateral entry students (except B.Sc candidates)

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2017-2018

Choice Based Credit System (CBCS)



B.E: Information Science and Engineering

V SEMESTER

SI.		Title	Teaching Department	Teaching	Hours /Week		Exami	nation		Credits
No	Course Code			Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CS51	Management and Entrepreneurship for IT Industry	CS/IS	04		03	60	40	100	4
2	17CS52	Computer Networks	CS/IS	04		03	60	40	100	4
3	17CS53	Database Management System	CS/IS	04	* -	03	60	40	100	4
4	17CS54	Automata theory and Computability	CS/IS	04		03	60	40	100	4
5	17CS/IS55x	Professional Elective-1	CS/IS	03	-	03	60	40	100	3
6	17CS56x	Open Elective-1	CS/IS	03		03	60	40	100	3
7	17CSL57	Computer Network Laboratory	CS/IS	01-Hour I 02-Hour I	nstruction Practical	03	60	40	100	2
8	17CSL58	DBMS Laboratory with mini project	CS/IS	01-Hour I 02-Hour I	nstruction Practical	03	60	40	100	2
			TOTAL		22hours : 06 hours	24	480	320	800	26

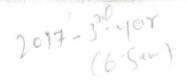
Professiona	al Elective-1	Open Electiv	ve - 1*** (List offered by CSE Board only)
17CS551	Object Oriented Modeling and Design	17CS561	Programming in JAVA (Not for CSE/ISE students)
17IS552	Social Network Analysis	17CS562	Artificial Intelligence
17CS553	Advanced JAVA and J2EE	17CS563	Embedded Systems
17IS554	Programming Languages	17CS564	Dot Net framework for application development;
		17CS565	Cloud Computing (Not for CSE/ISE students)

^{***}Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives). Selection of an open elective is not allowed, if:

The syllabus content of the selected open elective is similar to that of Departmental core course(s) or to be studied Professional elective(s). Registration to open electives shall be documented under the guidance of Programme Coordinator and Adviser.

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI Scheme of Teaching and Examination 2017-2019

Choice Based Credit System (CBCS)



B.E: Information Science and Engineering

VI SEMESTER

Sl. Course No Code	teler if it is	Title	Teaching Department	Teaching Hours /Week				Credits		
	Code			Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CS61	Cryptography, Network Security and Cyber Law	CS/IS	04		03	60	40	100	4
2	17IS62	File Structures	CS/IS	04		03	60	40	100	4
3	17IS63	Software Testing	CS/IS	04		03	60	40	100	4
4	17CS64	Operating Systems	CS/IS	04		03	60	40	100	. 4
5	17CS/IS65x	Professional Elective-2	CS/IS	03		03	60	40	100	3
6	17CS66x	Open Elective-2	CS/IS	03		03	60	40	100	3
7	17ISL67	Software Testing Laboratory	CS/IS	01-Hour Ir 02-Hour P		03	60	40	100	2
8	17ISL68	File Structures Laboratory with mini project	CS/IS	01-Hour In 02-Hour P	struction	03	60	40	100	2
			TOTAL	Theory:22 Practical:		24	480	320	800	26

Professiona	l Elective-2	Open Elective	e – 2*** (List offered by CSE Board only)
17CS651	Data Mining and Data Warehousing	17CS661	Mobile Application Development
17IS652	System Software	17CS662	Big Data Analytics (Not for CSE/ISE students)
17CS653	Operations research	17CS663	Wireless Networks and Mobile computing
17CS654	Distributed Computing system	17CS664	Python Application Programming
		17CS665	Service Oriented Architecture
		17CS666	Multicore Architecture and Programming

^{***}Students can select any one of the open electives offered by any Department (Please refer to consolidated list of VTU for open electives). Selection of an open elective is not allowed, if:

The candidate has studied similar content course during previous semesters.

PRINCIPAL 4

("": !=stitute of Engg. & Technology,
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[·] The candidate has no pre - requisite knowledge.

The syllabus content of the selected open elective is similar to that of Departmental core course(s) or to be studied Professional elective(s) Institute of Engg. & Technology Registration to open electives shall be documented under the guidance of Programme Coordinator and Adviser.

Mijar, MOODBIDRI - 574 225 Mijar, MOODBIDRI - 574 225

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Scheme of Teaching and Examination 2017-201

Choice Based Credit System (CBCS)

2017 - 4th Yor.

B.E: Information Science and Engineering

VII SEMESTER

CI			Teaching	Teaching	Hours /Week		Examin	ation		Credits
Sl. No	Course Code	Title	Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CS71	Web Technology and its applications	CS/IS	04		03	60	40	100	4
2	17IS72	Software Architecture and Design Patterns	CS/IS	04		03	60	40	100	4
3	17CS73	Machine Learning	CS/IS	04		03	60	40	100	4
4	17CS/IS74x	Professional Elective 3	CS/IS	03	- 11	03	60	40	100	3
5	17CS/IS75x	Professional Elective 4	CS/IS	03		03	60	40	100	3
6	17CSL76	Machine Learning Laboratory	CS/IS	01-Hour Ir 02-Hour P		03	60	40	100	2
7	17CSL77	Web Technology Laboratory with mini project	CS/IS	01-Hour Ir 02-Hour P		03	60	40	100	2
8	17ISP78	Project Work Phase-I + Project work Seminar	CS/IS		03	-	-	100	100	2
		TOTAL		Theory:18 Practical: 09 hours	hours and Project:	21	420	380	800	24

Profession	al Elective-3	Professional	ective-4		
17CS741 Natural Language Processing		17CS751	Soft and Evolutionary Computing		
17CS742	Cloud Computing and its Applications	17CS752	Computer Vision and Robotics		
17CS743	Information and Network Security	17IS753	Information Management System		
17CS744	Unix System Programming	17CS754	Storage Area Networks		

1. Project Phase – I and Project Seminar: Comprises of Literature Survey, Problem identification, Objectives and Methodology. CIE marks shall be based on the report covering Literature Survey, Problem identification, Objectives and Methodology and Seminar presentation skill.

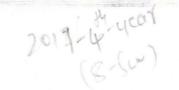
PRINCIPAL

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI

Schoice Based Credit System (CBCS)



B.E: Information Science and Engineering

VIII SEMESTER

Sl.			Teaching	Teachin	g Hours /Week		Examin	ation		Credits
No	Course Code	Title	Department	Theory	Practical/ Drawing	Duration in hours	SEE Marks	CIE Marks	Total Marks	
1	17CS81	Internet of Things and Applications	CS/IS	- 4	-	3	60	40	100	4
2	17CS82	Big Data Analytics	CS/IS	4	-	3	60	40	100	4
3	17CS/IS83X	Professional Elective-5	CS/IS	3	-	3	60	40	100	3
4	17IS84	Internship/ Professional Practice	CS/IS	Indus	try Oriented	3	50	50	100	2
5	17ISP85	Project Work-II	CS/IS	-	6	3	100	100	200	6
6	17ISS86	Seminar	CS/IS	-	4	-	-	100	100	1
		TOTAL		Theory: 1 Project as	1 hours nd Seminar:	15	330	370	700	20

Profession	al Elective -5	
17CS831	High Performance Computing	
17CS832	User Interface Design	
17IS833	Virtual Reality	
17CS834	System Modeling and Simulation	

1. Internship/ Professional Practice: 4 Weeks internship to be completed between the (VI and VII semester vacation) and/or (VII and VIII semester vacation) period.

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VISVESVARAY, TECHNOLOGICAL UNIVERSITY, BELGAUM CREDIT SYSTEM (CS) SCHEME OF TEACHING AND EXAMINATION 2015-2016

2015 245 (3-Sem)

B.E. Computer Science & Engineering/ B.E. Information Science & Engineering

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Sl.	Subject	ubject		Teaching Hours /Week		Exam	ination	A Partie of the	Credits
No	Code	Title	Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	
1	15MAT31	Engineering Mathematics - III	04		03	80	20	100	4
2	15CS32	Analog and Digital Electronics	04	-4	03	80	20	- 100	4
3	15CS33	Data Structures and Applications	04	-	03	80	20	100	4
4	15CS34	Computer Organization	04	,	03	80	20	100	4
5	15CS35	Unix and Shell Programming	04		03	80	20	100	4
6	15CS36	Discrete Mathematical structures	04)	03	80	20	100	4
7	15CSL37	Analog and Digital Electronics Laboratory		1I+2P	03	80	20	100	2
8	15CSL38	Data Structures Laboratory		1I+2P	03	80	20	100	2
		TOTAL	24	6	24	640	160	800	28

Note: I Stands for Instruction Hours and P for practical Hours

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VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELAGAVI CHOICE BASED CREDIT SYSTEM (CBCS)

2015 groyear (4 Sem)

SCHEME OF TEACHING AND EXAMINATION 2015-2016

B.E. Computer Science & Engineering/ B.E. Information Science & Engineering

IV SEMESTER

			Teaching H	ours /Week		Ex	amination	734	Credits
Sl. No	Subject Code	Title	Theory	Practical/ Drawing	Duration	Theory/ Practica l Marks	I.A. Marks	Total Marks	
1	15MAT41	Engineering Mathematics - IV	04	A	03	80	20	100	4
2	15CS 42	Software Engineering	04		03	80	20	100	4
3	15CS43	Design and Analysis of Algorithms	04	-	03	80	20	100	4
4	15CS 44	Microprocessors and Microcontrollers	04		03	80	20	100	4
5	15CS45	Object Oriented Concepts	04		03	80	20	100	4
6	15CS46	Data Communication	04	and the	03	80	20	100	4
7	15CSL47	Design and Analysis of Algorithm Laboratory	(1I+2P	03	80	20	100	2
8	15CSL48	Microprocessors Laboratory		1I+2P	03	80	20	100	2
		TOTAL	24	06	24	640	160	800	28

Note: 'I' Stands for Instruction Hours and 'P' for practical Hours

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B.E. Information Science & Engineering

2015 3 year (5-Jem)

V SEMESTER

Sl.	Subject			ing Hours Veek	1				
No	Code	Title	Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	Credits
1	15CS51	Management and Entrepreneurship for IT industry	04	- /	03	80	20	100	4
2	15CS52	Computer Networks	04	4	03	80	20	100	4
3	15CS53	Database Management System	04		03	80	20	100	4
4	15CS54	Automata theory and Computability	04		03	80	20	100	4
5	15CS/IS55x	Professional Elective 1	03		03	80	20	100	3
6	15CS56x	Open Elective 1	03	7 -3 %	03	80	20	100	3
7	15CSL57	Computer Network Laboratory		1I+2P	03	80	20	100	2
3	15CSL58	DBMS Laboratory with mini project	-	1I+2P	03	80	20	100	2
гот	AL		22	6	24	640	160	800	26

Professional	Elective 1
15CS551	Object Oriented Modeling and Design
15IS552	Social Network Analysis
15CS553	Advanced JAVA and J2EE
15IS554	Programming Languages

1. Professional Elective: Electives relevant to choosen specialization / branch

2. Open Elective: Electives from other technical and/or emerging subject areas (Announced separately)

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VISVESVALAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI CHOICE BASED CREDIT SYSTEM (CBCS) SCHEME OF TEACHING AND EXAMINATION 2015-2016

2015 3 gear

B.E. Information Science & Engineering

VI SEMESTER

			Teaching H	lours /Week		Ex	mination		
Sl. No	Subject Code	Title	Theory	Practical/ Drawing	Duration	Theory/ Practical Marks	I.A. Marks	Total Marks	Credits
1	15CS61	Cryptography, Network Security and Cyber Law	04	-	03	80	20	100	4
2	15IS62	File Structures	04	9	03	80	20	100	4
3	151S63	Software Testing	04	£	03	80	20	100	4
4	15CS64	Operating Systems	04		03	80	20	100	4
5 ,	15CS/IS65x	Professional Elective 2	03		03	80	20	100	3
6	15CS/IS66x	Open Elective 2	03		03	80	20	100	3
7	15ISL67	Software Testing Laboratory	_	1I+2P	03	80	20	100	2
8	15ISL68	File Structures Laboratory with mini project	-	1I+2P	03	80	20	100	2
		TOTAL	22	06	24	640	160	800	26

Professional	Elective 2	No.
15CS651	Data Mining and Data Warehousing	7
15IS652	System Software	
15CS653	Operation research	
15CS654	Distributed Computing system	

1. Professional Elective: Electives relevant to choosen specialization / branch

2. Open Elective: Electives from other technical and/or emerging subject areas (Announced separately). Of Information Science & Engineering Alva's Institute of Engg. & Technology

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B.E. Information Science & Engineering

VII SE	MEST	FER
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CI NI	0.11		Teaching I	lours /Week		Exa	mination		
Sl. No	, , , ,	Title	Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	Credits
	15CS71	Web Technology and its applications	04		03	20	80	100	4
2	15IS72	Software Architecture and Design Patterns	04		03	20	80	100	4
3	15CS73	Machine Learning	04		03	20	80	100	4
4	15CS/IS74x	Professional Elective 3	03		03	20	80	100	3
5	15CS/IS75x	Professional Elective 4	03		03	20	80	100	3
6	15CSL76	Machine Learning Laboratory		1I+2P	03	20	80	100	
7	15CSL77	Web Technology Laboratory with mini project		1I+2P	03	20	80		2
3	15ISP78	Project Phase 1 + Seminar				100	00	100	2
		TOTAL	18	06				100	2
			10	06	21	240	560	800	24

ofessional E CS741	Natural Language Processing	Professional	Elective 4
5CS742	Cloud Computing and its Application	15CS751	Soft and Evolutionary Computing
5CS743	Information and Network Security	13CS/32	Computer Vision and Robotics
5CS744	Unix System Programming	1518753	Information Management System
1. Profess	sional Elective: Electives relevant to chosen specialization / branch	15CS754	Storage Area Networks

2. Project Phase 1 + Seminar : Literature Survey, Problem Identification, Objectives and Methodology, Submission of Synopsis and Seminar

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SCHEME OF TEACHING AND EXAMINATION 2015-2016

B.E. Information Science & Engineering

VIII SEMESTER

Sl.	S.Li.			ing Hours Week	d	Exan	ination			
No	Subject Code	Title	Theory	Practical/ Drawing	Duration	I.A. Marks	Theory/ Practical Marks	Total Marks	Credits	
1	15CS81	Internet of things and applications	- 4		3	20	80	100	4	
2	15CS82	Big Data Analytics	4		3	20	80	100	4	
3	15CS/IS83x	Professional Elective 5	3		3	20	80	100	3	
4	15IS84	Internship / Professional Practice	Industry	Oriented	3	50	50	100	2	
5	15ISP85	Project work phase II	(3)	6	3	100	100	100	5	
6	15ISS86	Seminar		4	I	100		100	2	
		TOTAL	11	10	15	310	390	700	20	

15CS831	High Performance Computing
15CS832	User Interface Design
15IS833	Virtual Reality
15CS834 S	System Simulation and Modeling

1. Professional Elective: Electives relevant to chosen specialization / branch

2. Internship / Professional Practice: To be carried out between 6th and 7th semester vacation or 7th and 8th semester vacation period

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Dept. Of Information Science & Engineering Alva's Institute of Engg. & Technology Mijar, MOODBIDRI - 574 225

2015-47 year (8-Sun)

2010-2 Geart-

SCHEME OF TEACHING AND EXAMINATION **B.E. INFORMATION SCIENCE AND ENGINEERING** (Common to CSE & ISE)

1

III SEMESTER

S. No.	Subject Code	Code Subject	Teaching Dept.	Teaching Hrs / Week		Examination				
			3.45	Theory	Practi cal	Duration (Hrs)	Marks			
	100				223		IA	Exam	Total	
1	10MAT31	Engineering Mathematics - III	Mathematics	04	-	03	25	100	125	
2	10CS32	Electronic Circuits	CSE/ISE	04	-	03	25	100	125	
3	10CS33	Logic Design	CSE/ISE	04	-	03	25	100	125	
4	10CS34	Discrete Mathematical Structures	CSE/ISE	04	-	03	25	100	125	
5	10CS35	Data Structures with C/C++	CSE/ISE	04	-	03	25	100	125	
6	10CS36	Object Oriented Programming with C++	CSE/ISE	04	7,	03	25	100	125	
7	10CSL37	Data Structures with C/C++ Laboratory	CSE/ISE	-	03	03	25	50	75	
8	10CSL38	Electronic Circuits & Logic Design Laboratory	CSE/ISE	-	03	03	25	50	75	
		Total		24	06	-	200	700	900	

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2010-20 years!

SCHEME OF TEACHING AND EXAMINATION **B.E. INFORMATION SCIENCE AND ENGINEERING** (Common to CSE & ISE)

IV SEMESTER

S. No.	Subject Code	Subject	Teaching Dept.	Teaching Week	Hrs /		Exami	nation	
				Theory	Practi cal	Duration (Hrs)		Marks	
_							IA	Exam	Total
1	10MAT41	Engineering Mathematics - IV	Maths	04	-	03	25	100	125
2	10CS42	Graph Theory and Combinatorics	CSE/ISE	04	_	03	25	100	
3	10CS43	Design and Analysis of Algorithms	CSE/ISE	04	_	03	25		125
4	10CS44	Unix and Shell Programming	CSE/ISE	04	_	03		100	125
5	10CS45	Microprocessors	CSE/ISE	04	_	03	25	100	125
6	10CS46	Computer Organization	CSE/ISE	04			25	100	125
7	10CSL47	Design and Analysis of Algorithms Laboratory	CSE/ISE	-	03	03	25 25	50	125 75
8	10CSL48	Microprocessors Laboratory	CSE/ISE	_	03	03	25	50	
		Total		24	06	-	25 200	50 700	75 900

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2010 - 348 (5-Sem)

SCHEME OF TEACHING AND EXAMINATION B.E. COMPUTER SCIENCE AND ENGINEERING

V SEMESTER

No.	Subject Code	Subject	Teaching Dept.	Teaching Hrs / Week		Examination				
				Theory	Practi cal	Duration (Hrs)		Marks		
				7 1 7 1 1			IA	Exam	Total	
1	10IS51	Software Engineering	CSE/ISE	04	-	03	25	100	125	
2	10CS52	Systems Software	CSE/ISE	04	-	03	25	100	125	
3	10CS53	Operating Systems	CSE/ISE	04	-	03	25	100	125	
4	10CS54	Database Management Systems	CSE/ISE	04	-	03	25	100	125	
5	10CS55	Computer Networks - I	CSE/ISE	04	-	03	25	100	125	
6	10CS56	Formal Languages and Automata Theory	CSE/ISE	04	-	03	25	100	125	
7	10CSL57	Database Applications Laboratory	CSE/ISE	-	03	03	25	50	75	
8	10CSL58	Systems Software & Operating Systems Laboratory	CSE/ISE	-	03	03	25	50	75	
		Total		24	06	-	200	700	900	

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SCHEME OF TEACHING AND EXAMINATION **B.E. COMPUTER SCIENCE AND ENGINEERING**

VI SEMESTER

. No.	Subject Code	Subject	Teaching Dept.	Teachin Week	g Hrs /		Exami	nation	
				Theor	Practical	Duration (Hrs)	Marks		
							IA	Exam	Total
1	10AL61	Management and Entrepreneurship	CSE/ISE/ MBA	04	-	03	25	100	125
2	10CS62	Unix System Programming	CSE/ISE	04	-	03	25	100	125
3	10CS63/ 10IS662	Compiler Design	CSE/ISE	04	-	03	25	100	125
4	10CS64	Computer Networks - II	CSE/ISE	04	-	03	25	100	125
5	10CS65 / 10IS665	Computer Graphics and Visualization	CSE/ISE	04	-	03	25	100	125
6	10CS66x	Elective I (Group-A)	CSE/ISE	04	-	03	25	100	125
7	10CSL67	Computer Graphics and Visualization Laboratory	CSE/ISE	-	03	03	25	50	75
8	10CSL68	Unix System Programming and Compiler Design Laboratory	CSE/ISE	-	03	03	25	50	75
		Total		24	06	-	200	700	900

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2010-3°-year (6-Sem)

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2010 - 4th year (7-5cm)

SCHEME OF TEACHING AND EXAMINATION B.E. COMPUTER SCIENCE AND ENGINEERING

VII SEMESTER

No.	Subject Code	Subject	Teaching Dept.	Teaching Week	Hrs /		Exami	nation	
				Theory	Practi cal	Duration (Hrs)	i.	Marks	
							IA	Exam	Total
1	10CS71	Object-Oriented Modeling and Design	CSE/ISE	04	-	03	25	100	125
2	10CS72/ 10IS752	Embedded Computing Systems	CSE/ISE	04	-	03	25	100	125
3	10CS73	Programming the Web	CSE/ISE	04	-	03	25	100	125
4	10CS74	Advanced Computer Architectures	CSE/ISE	04	-	03	25	100	125
5	10CS75x	Elective II (Group-B)	CSE/ISE	04	-	03	25	100	125
6	10CS76x	Elective III(Group-C)	CSE/ISE	04	-	03	25	100	125
7	10CSL77	Networks Laboratory	CSE/ISE	-	03	03	25	50	75
8	10CSL78	Web Programming Laboratory	CSE/ISE	-	03	03	25	50	75
		Total	1 100	24	06	-	200	700	900

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SCHEME OF TEACHING AND EXAMINATION **B.E. COMPUTER SCIENCE AND ENGINEERING**

VIII SEMESTER

i. No.	Subject Code	Subject	Teaching Dept.	Teaching Week	Hrs /		Examir	nation	
				Theory	Practi	Duration		Marks	
					cal	₹,,,			
							IA	Exam	Total
1	10IS81	Software Architectures	CSE/ISE	04	-	03	25	100	125
2	10CS82	System Modeling and Simulation	CSE/ISE	04	-	03	25	100	125
3	10CS83x	Elective IV(Group-D)	CSE/ISE	04	-	03	25	100	125
4	10CS84x	Elective V(Group-E)	CSE/ISE	04	-	03	25	100	125
5	10CS85	Project Work	CSE		06	03	100	100	200
6	10CS86	Seminar	CSE	-	-	-	50	-	50
		Total		16	06		250	500	750

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2010 - 4- year (8- Sem)