

Punyashlok Ahilyadevi Holkar Solapur University, Solapur



Name of the Faculty: Science & Technology

CHOICE BASED CREDIT SYSTEM

Syllabus: Computer Science & Engineering

Name of the Course: B.E.- IV (Sem. VII & VIII)

(Syllabus to be implemented from w.e.f. June 2019)



PUNYASHLOK AHILYADEVI HOLKAR SOLAPUR UNIVERSITY, SOLAPUR

Faculty of Engineering & Technology
Structure of B.E.Computer Science and Engineering wef. 2019-2020
Choice Based Credit System Syllabus

Semester I

Course Code	Theory Course Name	Hrs./week			Credits	Examination Scheme			
		L	T	P		ISE	ESE	ICA	Total
CS411	Advanced Computer Architecture	3	1	--	4	30	70	25	125
CS412	Distributed Systems	3	--	--	3	30	70	--	100
CS413	Modern Database Systems	4	--	--	4	30	70	--	100
CS 414A to CS 414C	Elective –I	3	--	--	3	30	70	--	100
CS 415A to CS 415C	Elective-II	3	1	--	4	30	70	25	125
CS416	# Programming with Python	2	--	--	2	--	--	25	25
	Sub Total	18	02		20	150	350	75	575
	Laboratory						POE	OE	
CS412	Distributed Systems	--	--	2	1	--	--	25	25
CS413	Modern Database Systems	--	--	2	1	--	50	--	75
CS416	Programming with Python	--	--	2	1	--	50	--	50
CS417	Project Phase-I	--	--	4	2	--	50	--	75
CS418	Vocational Training	--	--			--	--	25	25
	Sub Total				5		150	--	100
	Grand Total	18	02	10	25	150	500	175	825

Abbreviations: L- Lectures, P –Practical, T- Tutorial, ISE- In Semester Exam, ESE - End Semester Exam, ICA- Internal Continuous Assessment, ESE - University Examination (Theory &/ POE &/Oral examination)

Semester II

Course Code	Theory Course Name	Hrs./week			Credits	Examination Scheme			
		L	T	P		ISE	ESE	ICA	Total
CS421	Management Information System	3	1	--	4	30	70	25	125
CS422	Information and Cyber Security	3	--	--	3	30	70	--	100
CS423A to CS423C	Elective-III	3	1	--	4	30	70	25	125
CS424A to CS424C	Elective-IV	3	--	--	3	30	70	--	100
CS425	# Web Technology	2	--	--	2	25	--	--	25
	Sub Total	14	02	--	16	145	280	50	475
	Laboratory						POE	OE	
CS422	Information and Cyber Security	--	--	2	1	--	50	--	75
CS425	Web Technology	--	--	4	2	--	50	--	75
CS424	Elective-IV	--	--	2	1	--	--	25	25
CS426	Project Phase-II	--	--	6	3	--	100	--	175
	Sub Total				7		200	150	350
	Grand Total	14	02	14	23	145	480	200	825

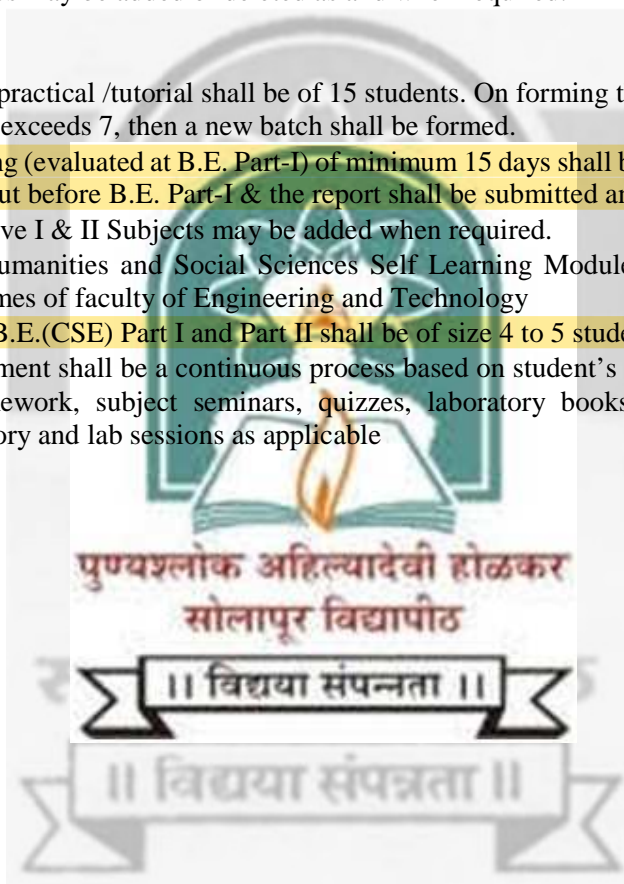
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Elective I CS414A : Internet of Things CS414B : Wireless Adhoc Networks CS414C : Artificial Intelligence	Elective II CS415A : Business Intelligence CS415B : Data Mining CS415C : Object Oriented Modeling and Design
Elective III CS423A : Big data Analytics CS423B : Human Computer Interaction CS423C : Artificial Neural Network	Elective IV CS424A : Software Testing and Quality Assurance CS424B : Cloud Computing CS424C : Machine Learning

Note: Appropriate electives may be added or deleted as and when required.

Note :

- Batch size for the practical /tutorial shall be of 15 students. On forming the batches, if the strength of remaining student exceeds 7, then a new batch shall be formed.
- Vocational Training (evaluated at B.E. Part-I) of minimum 15 days shall be completed in any vacation after S.E. Part-II but before B.E. Part-I & the report shall be submitted and evaluated in B.E. Part-I
- Appropriate Elective I & II Subjects may be added when required.
- Curriculum for Humanities and Social Sciences Self Learning Modules is common for all under graduate programmes of faculty of Engineering and Technology
- Project group for B.E.(CSE) Part I and Part II shall be of size 4 to 5 students
- Term work assessment shall be a continuous process based on student's performance in – class tests, assignments, homework, subject seminars, quizzes, laboratory books and their interaction and attendance for theory and lab sessions as applicable





SOLAPUR UNIVERSITY, SOLAPUR

FACULTY OF ENGINEERING & TECHNOLOGY

COMPUTER SCIENCE & ENGINEERING

Structure & syllabus for

T.E. (Computer Science & Engineering)

w.e.f. Academic Year 2018-19

Choice Based Credit System



SOLAPUR UNIVERSITY, SOLAPUR
Faculty of Engineering & Technology
Third Year (Computer Science and Engineering)

Choice Based Credit System Syllabus Structure of T.E.Computer Science and Engineering W.E.F. 2018-2019 Semester I

Course Code	Theory Course / Name	Hrs./Week			Credits	Examination Scheme				
		L	T	P		ISE	ESE	ICA	Total	
CS311	Operating System Concepts	3	--	---	3	30	70	--	100	
CS312	System Programming	3	--	---	3	30	70	--	100	
CS313	Database Engineering	4	--	---	4	30	70	-	100	
CS314	Design and Analysis of Algorithms	3	1	---	4	30	70	25	125	
CS315	Computer Organization	3	1	---	4	30	70	25	125	
CS316	Java Programming	2	---	---	2	25	--	--	25	
SLH31	Self Learning Module 1	--	---	---	2	--	50	--	50	
Sub Total		18	02		22	175	400	50	625	
Laboratory										
							ESE			
							POE	OE		
CS311	Operating System Concepts	---		2	1	---	50	--	25	75
CS312	System Programming	---		2	1	---	---	--	25	25
CS313	Database Engineering	---		2	1	---	50	--	25	75
CS316	Java Programming	---		4	2	---	50	--	25	75
Sub Total		---	---	10	5		150	100	250	
Grand Total		18	02	10	27	175	550	150	875	

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Choice Based Credit System Syllabus Structure of T.E.Computer Science and Engineering W.E.F. 2018-2019 Semester II

Course Code	Theory Course / Name	Hrs./Week			Credits	Examination Scheme				
		L	T	P		ISE	ESE	ICA	Total	
CS321	Compiler Construction	4	--	--	4	30	70	--	100	
CS322	Unix Operating System	3	--	--	3	30	70	--	100	
CS323	Mobile Computing	3	1	--	4	30	70	25	125	
CS324	Software Engineering	3	1	--	4	30	70	25	125	
CS325	Mobile Application Development	3	--	--	3	30	70	--	100	
CS 326	Programming in C# net	2	--	--	2	25	---	--	25	
SLH 32	Self Learning Module 2	--	--	--	2		50	--	50	
Sub Total		18	02		22	175	400	50	625	
Laboratory										
							ESE			
							POE	OE		
CS321	Compiler Construction	--	--	2	1	---	--	---	25	25
CS322	Unix Operating System	--	--	2	1	---	---	---	25	25
CS325	Mobile Application Development	--	--	2	1	---	50	---	25	75
CS326	Programming in C# net	--	--	2	1	---	50	---	25	75
CS327	Mini Project	--	--	2	1	---	50	---	---	50
Sub Total		---	--	10	5	---	150	100	250	
Grand Total		18	02	10	27	175	550	150	875	

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Self Learning Module 1 Subjects for Humanities and Social Sciences (HSS) <ol style="list-style-type: none"> 1. Economics 2. Psychology 3. Philosophy 4. Sociology 5. Humanities 	Self Learning Module 2 Subjects for Self Learning for Technical Subjects <ol style="list-style-type: none"> 1. Computer Modeling and Simulation 2. Software licenses and practices 3. Network set up & management tools 4. Ethical Hacking 5. Data Science 6. UI Technologies
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Note:

1. The Internal Continuous Assessment (ICA) will be assessed based on continuous internal evaluation including class tests, assignments, performance in laboratories, Interaction in class, quizzes and group discussions as applicable.
2. The batch size for practical/tutorials be of 15 students. On forming the batches, if the strength of remaining students exceeds 7 students, then a new batch may be formed.
3. Mini Project shall consist of developing small software based on tools & technologies learnt in SE and TE
4. Student shall select one Self Learning Course at T.E. Part I and T.E. Part II each from ‘Humanities & Social Sciences (HSS)’ and ‘Technical’ Group respectively.
5. For TE Part I -
 - A. Student can select a Self Learning Course from Solapur University, Solapur HSS Course List and appear for its examination as and when conducted by Solapur University, Solapur.

OR

- B. Student can enroll for National Programme on Technology Enhanced Learning (NPTEL) course, complete its assignments and appear for certificate examination as and when conducted by NPTEL.

For more details about Self Learning Course (HSS) please refer to separate rule document available from Solapur University, Solapur

More details about NPTEL are available at <http://nptel.ac.in>

6. Project group for T.E.(CSE) Part II Mini Project shall be of 4 / 5 students
7. Vocational Training (evaluated at B.E. Part-I) of minimum 15 days shall be completed in any vacation after S.E. Part-II but before B.E. Part-I & the report shall be submitted and evaluated in B.E. Part-I
8. Curriculum for Humanities and Social Sciences Self Learning Modules is common for all under graduate programmes of faculty of Engineering and Technology.