

Savitribai Phule Pune University
Fourth Year of Computer Engineering (2015 Course)
(with effect from 2018-19)

Semester I

Course Code	Course	Teaching Scheme Hours / Week		Examination Scheme and Marks						Credit		
		Theory	Practical	In-Sem	End-Sem	TW	PR	OR/ *PRE	Total	TH/ TUT	PR	
410241	High Performance Computing	04	--	30	70	--	--	--	100	04	--	
410242	Artificial Intelligence and Robotics	03	--	30	70	--	--	--	100	03	--	
410243	Data Analytics	03	--	30	70	--	--	--	100	03	--	
410244	Elective I	03	--	30	70	--	--	--	100	03	--	
410245	Elective II	03	--	30	70	--	--	--	100	03	--	
410246	Laboratory Practice I	--	04	--	--	50	50	--	100	--	02	
410247	Laboratory Practice II	--	04	--	--	50	--	*50	100	--	02	
410248	Project Work Stage I	--	02	--	--	--	--	*50	50	--	02	
Total Credit										16	06	
Total		16	10	150	350	100	50	100	750	22		
410249	Audit Course 5										Grade	
Elective I				Elective II								
410244 (A) Digital Signal Processing				410245 (A) Distributed Systems								
410244 (B) Software Architecture and Design				410245 (B) Software Testing and Quality Assurance								
410244 (C) Pervasive and Ubiquitous Computing				410245 (C) Operations Research								
410244 (D) Data Mining and Warehousing				410245 (D) Mobile Communication								

410249-Audit Course 5 (AC5) Options:

AC5-I [Entrepreneurship Development](#)

AC5-IV: [Industrial Safety and Environment Consciousness](#)

AC5-II: [Botnet of Things](#)

AC5-V: [Emotional Intelligence](#)

AC5-III: [3D Printing](#)

AC5-VI: [MOOC- Learn New Skills](#)

Abbreviations:

TW: Term Work

TH: Theory

OR: Oral

PR: Practical

Sem: Semester

***PRE:** Project/ Mini-Project Presentation

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Semester II

Course Code	Course	Teaching Scheme Hours / Week		Examination Scheme and Marks						Credit		
		Theory	Practical	In-Sem	End-Sem	TW	PR	OR/ *PRE	Total	TH/ TUT	PR	
410250	Machine Learning	03	--	30	70	--	--	--	100	03	--	
410251	Information and Cyber Security	03	--	30	70	--	--	--	100	03	--	
410252	Elective III	03	--	30	70	--	--	--	100	03	--	
410253	Elective IV	03	--	30	70	--	--	--	100	03	--	
410254	Laboratory Practice III	--	04	--	--	50	50	--	100	--	02	
410255	Laboratory Practice IV	--	04	--	--	50	--	*50	100	--	02	
410256	Project Work Stage II	--	06	--	--	100	--	*50	150	--	06	
Total Credit										12	10	
Total		12	14	120	280	200	50	100	750	22		
410257	Audit Course 6										Grade	
Elective III						Elective IV						
410252 (A) Advanced Digital Signal Processing						410253 (A) Software Defined Networks						
410252 (B) Compilers						410253 (B) Human Computer Interface						
410252 (C) Embedded and Real Time Operating Systems						410253 (C) Cloud Computing						
410252 (D) Soft Computing and Optimization Algorithms						410253 (D) Open Elective						

410259-Audit Course 6 (AC6) Options:

AC6-I: [Business Intelligence](#)

AC6-IV: [Usability Engineering](#)

AC6-II: [Gamification](#)

AC6-V: [Conversational Interfaces](#)

AC6-III: [Quantum Computing](#)

AC6-VI: [MOOC- Learn New Skills](#)

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