

Faculty of Science & Technology
Savitribai Phule Pune University
Pune, Maharashtra, India



Curriculum for
Final Year of Information Technology
(2019 Course)
(With effect from AY 2022-23)

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Semester VII														
Course Code	Course Name	Teaching Scheme(Hours/week)			Examination Scheme and Marks						Credit Scheme			
		Lecture	Practical	Tutorial	Mid-Sem	End-Sem	Termwork	Practical	Oral	Total	Lecture	Practical	Tutorial	Total
414441	Information and Storage Retrieval	03	-	-	30	70	-	-	-	100	3	-	-	3
414442	Software Project Management	03	-	-	30	70	-	-	-	100	3	-	-	3
414443	Deep Learning	03	-	-	30	70	-	-	-	100	3	-	-	3
414444	Elective III	03	-	-	30	70	-	-	-	100	3	-	-	3
414445	Elective IV	03	-	-	30	70	-	-	-	100	3	-	-	3
414446	Lab Practice III	-	04	-	-	-	25	-	25	50	-	2	-	2
414447	Lab Practice IV	-	02	-	-	-	25	25	-	50	-	1	-	1
414448	Project Stage-I	-	-	02	-	-	50	-	-	50	-	-	2	2
414449	Audit Course7													
Total Credit											15	03	02	20
Total		15	06	02	150	350	100	25	25	650	15	03	02	20
Elective III: • Mobile Computing • High Performance Computing • Multimedia Technology • Smart Computing					Elective IV: • Bioinformatics • Introduction to DevOps • Computer Vision • Wireless Communications									
Lab Practice-III: It is based on subjects: • Information and Storage Retrieval					Lab Practice-IV: It is based on subjects: • Deep Learning									
Audit Courses 7: • 414449A: Copyrights and Patents • 414449B: Stress Management by Yoga • 414449C: English for Research Paper Writing														

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Semester VIII														
Course Code	Course Name	Teaching Scheme (Hours/week)			Examination Scheme and Marks						Credit Scheme			
		Lecture	Practical	Tutorial	Mid-Sem	End-Sem	Teamwork	Practical	Oral	Total	Lecture	Practical	Tutorial	Total
414450	Distributed Systems	03	-	-	30	70	-	-	-	100	03			03
414451	Elective V	03	-	-	30	70	-	-	-	100	03			03
414452	Elective VI	03	-	-	30	70	-	-	-	100	03			03
414453	Startup and Entrepreneurship	-	-	03	-	-	50	-	-	50	-	-	03	03
414454	Lab Practice V	-	04	-	-	-	50	25	-	75		02		02
414455	Lab Practice VI	-	02	-	-	-	25	-	50	75		01		01
414456	Project Stage II	-	10	-	-	-	100	-	50	150		05		05
414457	AuditCourse8													
Total Credit											09	08	03	20
Total		09	16	03	90	210	225	50	75	650	09	08	03	20
Elective V: <ul style="list-style-type: none">Software Defined NetworksSocial ComputingNatural Language ProcessingSoft ComputingGame Engineering					Elective VI: <ul style="list-style-type: none">Ethical Hacking and SecurityAugmented and Virtual RealityBusiness Analytics and IntelligenceBlockchain Technology									
Lab Practice V: It is based on subjects: <ul style="list-style-type: none">Distributed Systems					Lab Practice VI: It is based on subjects: <ul style="list-style-type: none">Elective VI									
Audit Courses 8: <ul style="list-style-type: none">414457A: Functional Programming in Haskell414457B: Cyber Laws and Use of Social Media414457C: Constitution of India														

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Semester-V														
Course Code	Course Name	Teaching Scheme (Hours/ week)			Examination Scheme and Marks						Credit Scheme			
		Theory	Practical	Tutorial	Mid-Sem	End-Sem	Term work	Practical	Oral	Total	Lecture	Practical	Tutorial	Total
314441	Theory of Computation	03	-	-	30	70	-	-	-	100	3	-	-	3
314442	Operating Systems	03	-	-	30	70	-	-	-	100	3	-	-	3
314443	Machine Learning	03	-	-	30	70	-	-	-	100	3	-	-	3
314444	Human Computer Interaction	03	-	-	30	70	-	-	-	100	3	-	-	3
314445	Elective-I	03	-	-	30	70	-	-	-	100	3	-	-	3
314446	Operating Systems Lab	-	04	-	-	-	25	25	-	50	-	2	-	2
314447	Human Computer Interaction- Lab	-	02	-	-	-		-	50	50	-	1		1
314448	Laboratory Practice-I	-	04	-	-	-	25	25		50	-	2	-	2
314449	Seminar	-	01	-	-	-	50	-	-	50	-	1	-	1
314450	Audit Course 5	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Credit											15	06	-	21
Total		15	11	-	150	350	100	50	50	700	15	06	-	21
Abbreviations: TH: Theory, TW: Term Work, PR: Practical , OR: Oral ,TUT: Tutorial														
Elective-I: 314445A - Design and Analysis of Algorithm 314445B - Advanced Database and Management System 314445C - Design Thinking 314445D - Internet of Things Laboratory Practice-I:							Audit Course 5: 314450A -Banking and Insurance 314450B -Startup Ecosystems 314450C - Foreign Language–(Japanese Language- III)							
Assignment from Machine Learning and Elective I														
Note: Students of T.E. (Information Technology) can opt any one of the audit course from the list of audit courses prescribed by BoS (Information Technology)														

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Semester-VI														
Course Code	Course Name	Teaching Scheme (Hours/ week)			Examination Scheme and Marks						Credit Scheme			
		Lecture	Practical	Tutorial	Mid-Sem	End-Sem	Term Work	Practical	Oral	Total	Lecture	Practical	Tutorial	Total
314451	Computer Networks& Security	03	-	-	30	70	-	-	-	100	03			03
314452	Data Science and Big Data Analytics	03	-	-	30	70	-	-	-	100	03			03
314453	Web Application Development	03	-	-	30	70	-	-	-	100	03			03
314454	Elective-II	03	-	-	30	70	-	-	-	100	03			03
314455	Internship	-	04	-	-	-	100	-	-	100		04		04
314456	Computer Networks& Security-Lab	-	04	-	-	-	25	-	50	75		02		02
314457	DS & BDA-Lab	-	02	-	-	-	25	25	-	50		01		01
314458	Laboratory Practice-II	-	04	-	-	-	50	25	-	75		02		02
314459	Audit Course 6	-	-	-	-	-	-	-	-	-	-	-	-	-
Total											12	09	-	21
Total		12	14	-	120	280	200	50	50	700	12	09	-	21
Abbreviations: TH: Theory, TW: Term Work, PR: Practical , OR: Oral, TUT: Tutorial														
Elective-II:					Audit Course 6:									
314454A - Artificial Intelligence					314459A - Green and Unconventional Energy									
314454B - Cyber Security					314459B - Leadership and Personality Development									
314454C -Cloud Computing					314459C - Foreign Language-(Japanese Language- IV)									
314454D - Software Modeling and Design														
Laboratory Practice-II :														
Assignments from Web Application Development and Elective-II.														
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