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**MIT**

Academy of  
Engineering

(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

**MIT ACADEMY OF ENGINEERING, ALANDI**

**Curriculum for**

**First Year**


**Bachelor of Technology**

**Computer Engineering**


**(Software Engineering)**

**NEP REVISION 2023 (2.0)**

**(With Effect from Academic Year: 2023-2024)**

 <b>MIT</b>   Academy of Engineering <small>(An Autonomous Institute Affiliated to Savitribai Phule Pune University)</small>	<b>COURSE STRUCTURE (NEP REVISION 2023)</b>		
	SCHOOL OF COMPUTER ENGINEERING	W. E. F.	:
FIRST YEAR BACHELOR OF TECHNOLOGY COMPUTER ENGINEERING (SOFTWARE ENGINEERING)	RELEASE DATE	:	01/08/2023
	REVISION NO.	:	2.0 (NEP)

SEMESTER: I COMPUTER ENGINEERING (SOFTWARE ENGINEERING)													
Audit Course - Universal Human Values (Induction Program)													
COURSE			TEACHING SCHEME			EXAMINATION SCHEME AND MARKS						C R E D I T	
TYPE	CODE	NAME	Hour/Week			THEORY			PRACT/ TU		T O T A L		
			TH	P	TU	IA	MSE	ESE	CA	D/ P			
BSC	2301101T	Calculus and Differential Equations	3	-	1	30	20	50	20	30	150	4	
BSC	2301102T	Engineering Physics	2	-	-	15	20	40	-	-	75	2	
	2301102L	Engineering Physics Lab	-	2	-	-	-	-	20	30	50	1	
ESC	2307101T	Electrical and Electronics Engineering	2	-	-	15	20	40	-	-	75	2	
	2307101L	Electrical and Electronics Engineering Lab	-	2	-	-	-	-	20	30	50	1	
ESC	2304101T	Foundations of Computing	2	-	-	15	20	40	-	-	75	2	
	2304101L	Foundations of Computing Lab	-	2	-	-	-	-	20	30	50	1	
VSEC	2310161T	Linux Fundamentals and Programming	1	-	-	15	-	20	-	-	35	1	
	2310161L	Linux Fundamentals and Programming Lab	-	2	-	-	-	-	20	20	40	1	
HSSM AEC	2301111/ 2/3/4	Communication Skills (English/ German/Japanese/ French)	-	4	-	-	-	-	35	40	75	2	
CC	2301182	Liberal Learning	-	2	-	-	-	-	-	50	50	1	
HSSM IKS	2310181	Indian Knowledge System (Vedic Mathematics)	2	-	-	25	-	50	-	-	75	2	
<b>TOTAL</b>			<b>12</b>	<b>14</b>	<b>1</b>						<b>800</b>	<b>20</b>	

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	<b>SCHOOL OF COMPUTER ENGINEERING</b>	<b>W. E. F.</b>	<b>:</b>	<b>2023-2024</b>
<b>FIRST YEAR BACHELOR OF TECHNOLOGY COMPUTER ENGINEERING (SOFTWARE ENGINEERING)</b>	<b>RELEASE DATE</b>	<b>:</b>	<b>01/08/2023</b>	
	<b>REVISION NO.</b>	<b>:</b>	<b>2.0 (NEP)</b>	

SEMESTER: II COMPUTER ENGINEERING (SOFTWARE ENGINEERING)												
COURSE			TEACHING SCHEME			EXAMINATION SCHEME AND MARKS					C R E D I T	
TYPE	CODE	NAME	Hour/Week			THEORY			PRACT			T O T A L
			TH	P	TU	IA	MSE	ESE	CA	D/P		
BSC	2301103T	Statistics and Integral Calculus	3	-	1	30	20	50	20	30	150	4
BSC	2301104T	Science of Nature	3	-	-	30	20	50	-	-	100	3
	2301104L	Science of Nature Lab	-	2	-	-	-	-	20	30	50	1
ESC	2304102T	Essentials of Data Science	2	-	-	15	20	40	-	-	75	2
	2304102L	Essentials of Data Science Lab	-	2	-	-	-	-	20	30	50	1
ESC	2303101T	Applied Mechanics	2	-	-	15	20	40	-	-	75	2
	2303101L	Applied Mechanics Lab	-	2	-	-	-	-	20	30	50	1
ESC	2309101T	Design Thinking	1	-	-	15	-	20	-	-	35	1
	2309101L	Design Thinking Lab	-	2	-	-	-	-	20	20	40	1
VSEC	2310162T	Data Visualization	1	-	-	15	-	20	-	-	35	1
	2310162L	Data Visualization Lab	-	2	-	-	-	-	20	20	40	1
PCC	2310111T	Discrete Structure	2	-	-	15	20	40	-	-	75	2
CC	2307183	Creative Technologies	-	4	-	-	-	-	35	40	75	2
<b>TOTAL</b>			<b>14</b>	<b>14</b>	<b>1</b>						<b>850</b>	<b>22</b>

\*Two Credits Internship needs to be completed after Completion of the First Year.

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**MIT ACADEMY OF ENGINEERING, ALANDI**

**Curriculum for  
Second Year**

**Bachelor of Technology  
Computer Engineering  
(Software Engineering)**


**NEP REVISION 2023 (2.0)**

**(With Effect from Academic Year: 2024-2025)**

 <b>Academy of Engineering</b> <small>(An Autonomous Institute Affiliated to Savitribai Phule Pune University)</small>	<b>COURSE STRUCTURE (NEP REVISION 2023)</b>			
	<b>SCHOOL OF COMPUTER ENGINEERING</b>	<b>W. E. F</b>	<b>:</b>	<b>2024-2025</b>
<b>SECOND YEAR BACHELOR OF TECHNOLOGY (COMPUTER ENGINEERING (SOFTWARE ENGINEERING))</b>	<b>RELEASE DATE</b>	<b>:</b>	<b>01/07/2024</b>	
	<b>REVISION NO.</b>	<b>:</b>	<b>2.0 (NEP)</b>	

SEMESTER: III (COMPUTER ENGINEERING (SOFTWARE ENGINEERING))												
COURSE			TEACHING SCHEME			EXAMINATION SCHEME AND MARKS					C R E D I T	
TYPE	CODE	NAME	Hour/Week			THEORY			PRACT			T O T A L
			TH	P	TU	IA	MSE	ESE	CA	D/P		
PCC	2310212T	Data Structures	3	-	-	30	20	50	-	-	100	3
PCC	2310214L	Programming Lab	-	4	-	-	-	-	35	40	75	2
PCC	2310221T	Computer Organization & Architecture	1	-	-	15	-	20	-	-	35	1
	2310221L	Computer Organization & Architecture Lab	-	2	-	-	-	-	20	20	40	1
PCC	2310218T	Computer Graphics	2	-	-	15	20	40	-	-	75	2
	2310218L	Computer Graphics Lab	-	2	-	-	-	-	20	30	50	1
VSEC	2310261L	Problem Solving Using OOP (C++)	-	4	-	-	-	-	35	40	75	2
	2310262L	Problem Solving Using OOP (Java)	-	4	-	-	-	-	35	40	75	2
HSSM MEC	2301276	Entrepreneurship Skills	2	-	-	35	-	40	-	-	75	2
HSSM VEC	2301287	Universal Human Values-II	1	4	-	-	-	25	-	75	100	3
OE	2311251	Prototyping	-	4	-	-	-	-	35	40	75	2
	*OE Annexure List	Open Elective Course	2	-	-	35	-	40	-	-		
ELC PRJ	2310291	Project Design	-	2	-	-	-	-	20	30	50	1
ELC SI	2310296	Internship (Life And Soft Skills)	-	-	-	-	-	-	-	75	75	2
<b>TOTAL</b>			<b>11</b>	<b>22</b>							<b>825</b>	<b>22</b>

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<b>SECOND YEAR BACHELOR OF TECHNOLOGY (COMPUTER ENGINEERING (SOFTWARE ENGINEERING))</b>	<b>RELEASE DATE</b>	<b>:</b>	<b>01/07/2024</b>
	<b>REVISION NO.</b>	<b>:</b>	<b>2.0 (NEP)</b>

<b>SEMESTER: IV (COMPUTER ENGINEERING (SOFTWARE ENGINEERING))</b>												
COURSE			TEACHING SCHEME			EXAMINATION SCHEME AND MARKS					C R E D I T	
TYPE	CODE	NAME	Hour/Week			THEORY			PRACT			T O T A L
			TH	P	T U	IA	MSE	ESE	CA	D/ P		
PCC	2310219T	Advanced Data Structures	2	-	-	15	20	40	-	-	75	2
	2310219L	Advanced Data Structures Lab	-	2	-	-	-	-	20	30	50	1
PCC	2310216T	Database Management System	3	-	-	30	20	50	-	-	100	3
	2310216L	Database Management System Lab	-	2	-	-	-	-	20	30	50	1
PCC	2310220T	Theory of Computation	3	-	-	30	20	50	-	-	100	3
VSEC	2310268L	Discipline Skill Develop. Course - Core Java	-	4	-	-	-	-	35	40	75	2
	2310269L	Discipline Skill Develop. Course - Advance Java	-	-	-	-	-	-	-	-	-	-
MDM	2307232T	Engineering Informatics (MDM-I)	2	-	-	15	20	40	-	-	75	2
	2307232L	Engineering Informatics Lab	-	2	-	-	-	-	20	30	50	1
OE	2301254T	Applied Mathematics	3	-	-	30	20	50	-	-	100	3
	*OE Annexure List	Open Elective Course	-	-	-	-	-	-	-	-	-	-
	2301254L	Applied Mathematics Lab	-	2	-	-	-	-	20	30	50	1
	*OE Annexure List	Open Elective Course Lab	-	-	-	-	-	-	-	-	-	-
HSSM VEC	2301286	Environmental Science	2	-	-	35	-	40	-	-	75	2
ELC PRJ	2310292	Project Implementation	-	2	-	-	-	-	20	30	50	1
Audit	2301281	Indian Constitution	1	-	-	-	-	-	-	-	-	Audit
<b>TOTAL</b>			<b>15</b>	<b>14</b>	<b>-</b>						<b>850</b>	<b>22</b>

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