
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**

REVISION 2022 (2.0)

(First Year Curriculum W.E.F., AY: 2022-2023)

SCHOOL OF COMPUTER ENGINEERING	W. E. F	:	2022-2023
FIRST YEAR BACHELOR OF TECHNOLOGY	RELEASE DATE	:	01/11/2022
	REVISION NO.	:	2.0

SEMESTER: I (PART A)
INDUCTION PROGRAM

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
			L	P	T	IA	MSE	ESE	CA	D/P		
BSC	AS105	Calculus and Differential Equations	3	-	1	30	20	50	30	20	150	4
BSC	AS106	Engineering Physics	3	2	-	30	20	50	30	20	150	4
ESC	ET101	Electrical and Electronics Engineering	3	2	-	30	20	50	30	20	150	4
ESC	ME107	Engineering Graphics	2	2	-	15	20	40	30	20	125	3
ESC	CS103	Foundations of Computing	2	4	-	15	20	40	50	25	150	4
HSSM AEC	HP107/ (10/12/14)	English for Communication /(German/Japanese/French)	-	2	-	-	-	-	50	-	50	1
HSSM VEC	HP109	Universal Human Values	2	-	-	-	-	-	-	-	Audit	
TOTAL			15	12	1						775	20

SEMESTER: II (PART A)

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
			L	P	T	IA	MSE	ESE	CA	D/P		
BSC	AS107	Statistics and Integral Calculus	3	-	1	30	20	50	30	20	150	4
BSC	CH101	Science of Nature	3	2	-	30	20	50	30	20	150	4
ESC	CV103	Applied Mechanics	2	2	-	15	20	40	30	20	125	3
ESC	ME106	Design Thinking	1	2	-	40	-	-	-	35	75	2
ESC	CS104	Essentials of Data Science	2	4	-	15	20	40	50	25	150	4
HSSM AEC	HP108 (11/13/15)	Functional English /(German/Japanese/French)	-	2	-	-	-	-	50	-	50	1
VSEC	ET104	Emerging Technologies	1	2	-	25	-	-	-	50	75	2
HSSM VEC	HP106	Indian Constitution	1	-	-	-	-	-	-	-	Audit	
TOTAL			13	14	1						775	20

SCHOOL OF COMPUTER ENGINEERING	W.E.F	:	2022-2023
FIRST YEAR BACHELOR OF TECHNOLOGY	RELEASE DATE	:	01/11/2022
	REVISION NO.	:	2.0

SEMESTER: I (PART B)

INDUCTION PROGRAM

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
			L	P	T	IA	MSE	ESE	CA	D/P		
BSC	AS105	Calculus and Differential Equations	3	-	1	30	20	50	30	20	150	4
BSC	CH101	Science of Nature	3	2	-	30	20	50	30	20	150	4
ESC	CV103	Applied Mechanics	2	2	-	15	20	40	30	20	125	3
ESC	ME106	Design Thinking	1	2	-	40	-	-	-	35	75	2
ESC	CS103	Foundations of Computing	2	4	-	15	20	40	50	25	150	4
HSSM AEC	HP107/ (10/12/14)	English for Communication /(German/Japanese/French)	-	2	-	-	-	-	50	-	50	1
HSSM VEC	HP109	Universal Human Values	2	-	-	-	-	-	-	-	Audit	
TOTAL			13	12	1						700	18

SEMESTER: II (PART B)

COURSE			TEACHING SCHEME			EXAMINATION SCHEME AND MARKS					C R E D I T	
PE	CODE	NAME	Hour/Week			THEORY			PRACT			T O T A L
			L	P	T	IA	MSE	ESE	CA	D/P		
BSC	AS107	Statistics and Integral Calculus	3	-	1	30	20	50	30	20	150	4
BSC	AS106	Engineering Physics	3	2	-	30	20	50	30	20	150	4
ESC	ET101	Electrical and Electronics Engineering	3	2	-	30	20	50	30	20	150	4
ESC	ME107	Engineering Graphics	2	2	-	15	20	40	30	20	125	3
ESC	CS104	Essentials of Data Science	2	4	-	15	20	40	50	25	150	4
VSEC	ET104	Emerging Technologies	1	2	-	25	-	-	-	50	75	2
HSSM AEC	HP108/ (11/13/15)	Functional English /(German/Japanese/French)	-	2	-	-	-	-	50	-	50	1
HSSM VEC	HP106	Indian Constitution	1	-	-	-	-	-	-	-	Audit	
TOTAL			15	14	1						850	22

MIT

Academy of
Engineering


(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

MIT ACADEMY OF ENGINEERING, ALANDI

**Curriculum for
Second Year
Bachelor of Technology
Computer Engineering**

REVISION 2022 (2.0)

(Second Year Curriculum W.E.F., AY: 2023-2024)

 Academy of Engineering <small>(An Autonomous Institute Affiliated to Savitribai Phule Pune University)</small>	COURSE STRUCTURE (REVISION 2022)			
	SCHOOL OF COMPUTER ENGINEERING	W. E. F	:	2023-2024
SECOND YEAR BACHELOR OF TECHNOLOGY (COMPUTER ENGINEERING)	RELEASE DATE	:	01/07/2023	
	REVISION NO.	:	2.0	

SEMESTER: III (COMPUTER ENGINEERING)												
COURSE			TEACHING SCHEME			EXAMINATION SCHEME AND MARKS					CREDIT	
TYPE	CODE	NAME	Hour/Week			THEORY			PRACT			TOTAL
			L	P	T	IA	MSE	ESE	CA	D/P		
OE	2301254	Applied Mathematics	3	2	-	30	20	50	20	30	150	4
PCC	2304211	Discrete Structure Graph Theory	3	-	-	30	20	50	-	-	100	3
PCC	2304212	Data Structures	3	-	-	30	20	50	-	-	100	3
PCC	2304213	Computer Graphics	3	2	-	30	20	50	20	30	150	4
PCC	2304214	Programming Lab	-	4	-	-	-	-	25	50	75	2
VSEC	2304261	Problem Solving Using OOP (C++)	-	4	-	-	-	-	35	40	75	2
	2304262	Problem Solving Using OOP (Java)	-	4	-	-	-	-	35	40	75	2
OE	2311251	Prototyping	-	4	-	-	-	-	35	40	75	2
ELC PRJ	2304291	Minor Project Design	-	2	-	-	-	-	20	30	50	1
HSSM VEC	2301286	Environmental Science	2	-	-	35	-	40	-	-	75	2
TOTAL			14	18							850	23

SEMESTER: IV (COMPUTER ENGINEERING)												
COURSE			TEACHING SCHEME			EXAMINATION SCHEME AND MARKS					CREDIT	
TYPE	CODE	NAME	Hour/Week			THEORY			PRACT			TOTAL
			L	P	T	IA	MSE	ESE	CA	D/P		
MDM	2307231	Engineering Informatics	3	2	-	30	20	50	20	30	150	4
PCC	2304215	Advanced Data Structures	3	2	-	30	20	50	20	30	150	4
PCC	2304216	Database Management system	3	2	-	30	20	50	20	30	150	4
PCC	2304217	Computer Organization & Architecture	1	2	-	10	-	40	-	25	75	2
VSEC	2304268/9	Discipline Skill Develop. Course Core Java/ Advance Java	-	4	-	-	-	-	35	40	75	2
ELC PRJ	2304292	Minor Project Implementation	-	2	-	-	-	-	20	30	50	1
HSSM VEC	2301287	Universal Human Values-II	1	4	-	25	-	-	-	75	100	3
ELC SI	2304296	Internship (Life And Soft Skills)	-	-	-	-	-	-	-	-	Audit	
TOTAL			11	18	-						750	20

*Two Credit Internship needs to be completed after Completion of the Second Year

MIT

Academy of
Engineering

(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

MIT ACADEMY OF ENGINEERING, ALANDI

Curriculum for

Third Year

Bachelor of Technology

Computer Engineering

REVISION 2022 (2.0)

(With Effect from Academic Year: 2024-2025)

SCHOOL OF COMPUTER ENGINEERING	W. E. F	:	2024-2025
THIRD YEAR BACHELOR OF TECHNOLOGY (COMPUTER ENGINEERING)	RELEASE DATE	:	01/07/2024
	REVISION NO.	:	2.0

SEMESTER: V (COMPUTER ENGINEERING)

COURSE			TEACHING SCHEME			EXAMINATION SCHEME AND MARKS					C R E D I T	
TYPE	CODE	NAME	Hour/Week			THEORY			PRACT/TUT			T O T A L
			L	P	T	IA	MSE	ESE	CA	D/P		
PCC	2304311T	Operating Systems	3	-	-	30	20	50	-	-	100	3
	2304311L	Operating Systems Lab	-	2	-	-	-	-	20	30	50	1
PCC	2304312T	Computer Networks	3	-	-	30	20	50	-	-	100	3
	2304312L	Computer Networks Lab	-	2	-	-	-	-	20	30	50	1
PCC	2304315T	Theory of Computation	3	-	-	30	20	50	-	-	100	3
PEC	2304321T	Exploratory Data Analytics	3	-	-	30	20	50	-	-	100	3
	2304322T	Artificial Intelligence Machine Learning										
	2304323T	Cloud Computing Foundation										
	2304324T	Cryptography and Information Security	-	2	-	-	-	-	20	30	50	1
	2304321L	Exploratory Data Analytics Lab										
	2304322L	Artificial Intelligence Machine Learning Lab										
	2304323L	Cloud Computing Foundation Lab										
2304324L	Cryptography and Information Security Lab											
VSEC	2304361L	Linux Administration-I	-	4	-	-	-	-	35	40	75	2
	2304362L	Web Technology										
	2304363L	Mobile Application Development										
	2304364L	UI/UX Design										
	2304365L	Professional Certification Courses										
MDM	*MDM Annexure List	Multi Disciplinary Minor Course-II	2	-	-	15	20	40	-	-	75	2
	*MDM Annexure List	Multi Disciplinary Minor Course-II Lab	-	2	-	-	-	-	20	30	50	1
ELC PRJ	2304391	Project - I	-	4	-	-	-	-	35	40	75	2
ELC SI	2304396	Summer Internship (Technical)	-	-	-	-	-	-	-	75	75	2
TOTAL			14	16	-						900	24

SCHOOL OF COMPUTER ENGINEERING	W. E. F	:	2024-2025
THIRD YEAR BACHELOR OF TECHNOLOGY (COMPUTER ENGINEERING)	RELEASE DATE	:	01/07/2024
	REVISION NO.	:	2.0

SEMESTER: VI (COMPUTER 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
			L	P	T	IA	MSE	ESE	CA	D/ P		
PCC	2304313T	Software Engineering	3	-	-	30	20	50	-	-	100	3
	2304313L	Software Engineering Lab	-	2	-	-	-	-	20	30	50	1
PCC	2304314T	Design & Analysis of Algorithms	3	-	-	30	20	50	-	-	100	3
	2304314L	Design & Analysis of Algorithms Lab	-	2	-	-	-	-	20	30	50	1
PEC	2304326T	Predictive Analytics	3	-	-	30	20	50	-	-	100	3
	2304327T	Deep Learning										
	2304328T	Cloud Native Application Development										
	2304329T	Cyber Security Forensics										
	2304326L	Predictive Analytics Lab	-	2	-	-	-	-	20	30	50	1
	2304327L	Deep Learning Lab										
	2304328L	Cloud Native Application Development Lab										
2304329L	Cyber Security Forensics Lab											
VSEC	2304366L	Linux Administration-II	-	4	-	-	-	-	35	40	75	2
	2304367L	Cloud Services										
	2304368L	Practitioner's Approach to AI										
	2304369L	Web and Desktop Application Development										
	2304370L	Professional Certification Course										
MDM	*MDM List	Multi Disciplinary Minor Course-III	2	-	-	15	20	40	-	-	75	2
	*MDM List	Multi Disciplinary Minor Course -III Lab	-	2	-	-	-	-	20	30	50	1
HSSM AEC	2304371L	Employability and Career Development	-	4	-	-	-	-	35	40	75	2
ELC PRJ	2304392	Project - II	-	4	-	-	-	-	35	40	75	2
TOTAL			11	20	-						800	21

*Four Credit Internship needs to be completed after Completion of the Third Year