



Academy of Maritime Education and Training (AMET)

Deemed to be University

#135 East Coast Road, Kanathur, Chennai-603112, Tamil Nadu, India.

Regulation
R2024

AY: 2024-2025

B.E.	S. No	Course Code	Category	Theory Course	Contact Hours	L	T	P	C	CIA	ESE	Total Mark	Exam Hour
MECHANICAL ENGINEERING 1st SEMESTER	1	246MA1A11TE	BSC	Calculus and Linear Algebra	4	3	1	-	4	40	60	100	3
	2	246CH1A01TA	BSC	Engineering Chemistry	3	3	-	-	3	40	60	100	3
	3	242MC1A13TA	ESC	Basic Mechanical and Marine Engineering	3	3	-	-	3	40	60	100	3
	4	242EE1A 03TA	ESC	Basic Electrical and Electronics Engg.	3	3	-	-	3	40	60	100	3
	5	242MD1A18TB	MDC	Universal Human Values (3 weeks)	-	3 Weeks			-	-	-	-	-
	6	242MD1A18TC	MDC	Environmental Studies	2	2	-	-	-	40	60	100	3
Hours Talley					Practical Course	CH	L	T	P	C	CIA	ESE	Total
Conduct hrs. = 27	7	246EN1A12PF	HSMC	Communication Skills Laboratory-I	2	-	-	2	1	50	50	100	3
Placement = 0	8	246CH1A01PA	BSC	Engineering Chemistry Laboratory	2	-	-	2	1	50	50	100	3
Aptitude Training = 2	9	242EE1A03PA	ESC	Basic Electrical and Electronics Lab.	2	-	-	2	1	50	50	100	3
Mentor-mentee = 1	10	242MC1A13PA	ESC	Engineering Drawing and Computer Graphics	5	2	-	3	3	50	50	100	3
Library = 2	11	242EO1A19PB	EOC	Value added Course-I	1	1	-	-	-	-	100	100	3
Seminar = 2					Total	27	17	1	9	19	-	-	-
Total hrs. 5x7 =35													
L = Lecture, T =Tutorial, P = Practical, C = Credits					4	PCC=Professional Core Course							
CIA = Continuous Internal Assessment					5	PEC=Professional Elective							
ESE = End Semester Exam					6	OEC=Open Elective Course							
1	BSC=Basic Science Course				7	I/PROJ = Internship/Project							
2	HSMC=Humanities and Social Science and Management				8	MD= Mandatory Course							
3	ESC=Engineering Science Course				9	EO=Value added course							



Academy of Maritime Education and Training (AMET)

Deemed to be University

#135 East Coast Road, Kanathur, Chennai-603112, Tamil Nadu, India.

Regulation

R2024

AY: 2024-2025

B.E.	S. No	Course Code	Category	Theory Course	Contact Hours	L	T	P	C	CIA	ESE	Total Mark	Exam Hour
MECHANICAL ENGINEERING 2nd SEMESTER	1	246EN1A22TE	HSMC	Technical English	2	2	-	-	2	40	60	100	3
	2	246MA1A21TF	BSC	Transforms and Differential Eqn.	4	3	1	-	4	40	60	100	3
	3	246PH1A02TD	BSC	Engineering Physics	3	3	-	-	3	40	60	100	3
	4	242MC1A23TA	ESC	Engineering Mechanics	4	3	1	-	3	40	60	100	3
	5	242CS1A23TB	ESC	Python Programming for problem solving	3	3	-	-	3	40	60	100	3
	6	242MD1A28TC	MDC	Essence of Indian Traditional knowledge	2	2	-	-	-	40	60	100	3
	7	242MC1A23TB	ESC	Thermodynamics	3	3	-	-	3	40	60	100	3
Hours Talley				Practical Course									
Contact hrs. =31	8	246EN1A02PG	HSMC	Communication Skills Laboratory-II	2	2	-	-	1	50	50	100	3
Placement = 0	9	246PH1A02PD	BSC	Engineering Physics Laboratory	2	-	-	2	1	50	50	100	3
Aptitude Training = 1	10	242CS1A23PB	ESC	Python Programming Laboratory	2	-	-	2	1	50	50	100	3
Mentor-mentee = 1	11	242MC1A23PA	ESC	Workshop Practices	4	-	-	4	2	50	50	100	3
Library = 1	12	242EO1A29PB	EOC	Value added Course-2	-	-	-	-	-	-	100	100	3
Seminar = 1					Total	31	21	2	8	23	-	-	-
Total hrs. 5x7 = 35													

L = Lecture, T =Tutorial, P = Practical, C = Credits	4	PCC=Professional Core Course
CIA = Continuous Internal Assessment	5	PEC=Professional Elective
ESE = End Semester Exam	6	OEC=Open Elective Course
1	7	I/PROJ = Internship/Project
2	8	MD= Mandatory Course
3	9	EO=Value added course



Academy of Maritime Education and Training (AMET)

(Deemed to be University)

#135 East Coast Road, Kanathur, Chennai-603112, Tamil Nadu, India.

Regulation

R2024

AY: 2024-2025

B.E.	S. No	Course code	Category	Course Title	Contact Hours	L	T	P	C	CIA	ESE	Total Mark	Exam Hour
MECHANICAL ENGINEERING 3rd SEMESTER	1	246MA1A31TG	BSC	Probability and Statistics	4	3	1	-	4	40	60	100	3
	2	242MC1A34TA	PCC	Manufacturing Technology	3	3	-	-	3	40	60	100	3
	3	242MC1A34TB	PCC	Strength of Materials	3	3	-	-	3	40	60	100	3
	4	242MC1A34TC	PCC	Computer Integrated Manufacturing	3	3	-	-	3	40	60	100	3
	5	242MC1A35TD	PEC	Foundation of EV and Hybrid Vehicles	3	3	-	-	3	40	60	100	3
	6	242MD1A38TE	MDC	Gender Sensitivity	2	2	-	-	-	40	60	100	3
Hours Talley				Practical Course									
Contact hrs. =26	7	242MC1A34PA	PCC	Manufacturing Technology Laboratory	2	-	-	2	1	50	50	100	3
Placement/MD = 2	8	242MC1A34PB	PCC	Strength of Materials Laboratory	2	-	-	2	1	50	50	100	3
Aptitude Training =1	9	246EN1A03PH	HSMC	Interpersonal Communication Lab	2	-	-	2	1	50	50	100	3
Seminar = 2	10	242EO1A39PC	EOC	Value added Course-3	2	2	-	-	-	-	100	100	3
Mentor-mentee = 1	Total				26	19	1	6	19	-	-	-	-
Library = 1													
Yoga/PD = 2													
Total hrs. 5x7 = 35													

L = Lecture, T =Tutorial, P = Practical, C = Credits	4	PCC=Professional Core Course
CIA = Continuous Internal Assessment	5	PEC=Professional Elective
ESE = End Semester Exam	6	OEC=Open Elective Course
1	7	I/PROJ = Internship/Project
2	8	MD= Mandatory Course
3	9	EO=Value added course



Academy of Maritime Education and Training (AMET)

Deemed to be University

#135 East Coast Road | Kanathur | Chennai-603112 | Tamil Nadu | India

Regulation

R2024

AY: 2024-2025

B.E.	S. No	Course code	Category	Theory Course	Contact Hours	L	T	P	C	CIA	ESE	Total Mark	Exam Hrs.	
MECHANICAL ENGINEERING 4th SEMESTER	1	242MC1A41TA	BSC	Material Science and Engineering	3	3	-	-	3	40	60	100	3	
	2	242MC1A44TB	PCC	Thermal Engineering	3	3	-	-	3	40	60	100	3	
	3	242MC1A44TC	PCC	Fluid Mechanics and Machinery	3	3	-	-	3	40	60	100	3	
	4	242MC1A44TD	PCC	Design of Machine Elements	4	3	1	-	4	40	60	100	3	
	5	242MC1A45TE	PEC	Automotive Mechanics for EV	3	3	-	-	3	40	60	100	3	
	6	242MC1A46TG	OEC	OEC-1	3	3	-	-	3	40	60	100	3	
	7	242MD1A48TF	MDC	Indian Constitution	2	2	-	-	-	40	60	100	3	
Hours Talley				Practical Course										
Contact hrs. = 27	8	242MC1A44PA	PCC	Thermal Engineering Laboratory	2	-	-	2	1	50	50	100	3	
Placement/MD = 2	9	242MC1A44PB	PCC	Fluid Mechanics and Machinery Laboratory	2	-	-	2	1	50	50	100	3	
Aptitude Training = 1	10	246EN1A42PI	HSMC	Professional Communication	2	-	-	2	1	50	50	100	3	
Seminar = 1	11	242MC1A49PC	EOC	Value added Course-4	-	-	-	-	-	-	100	100	3	
Mentor- Mentee = 1	-			(Internship-I orientation -IV Semester Vacation)										
Library = 1					Total	27	20	1	6	22	-	-	-	-
Yoga/PD = 2														
Total hrs. 5x7= 35														

L = Lecture, T =Tutorial, P = Practical, C = Credits CIA = Continuous Internal Assessment ESE = End Semester Exam.	4	PCC=Professional Core Course
	5	PEC=Professional Elective
	6	OEC=Open Elective Course
1		BSC=Basic Science Course
2		HSMC=Humanities and Social Science and mgt.
3		ESC=Engineering Science Course
	7	I/PROJ = Internship/Project
	8	MD= Mandatory Course
	9	EO=Value added course



Academy of Maritime Education and Training (AMET)

Deemed to be University

#135 East Coast Road | Kanathur | Chennai-603112 | Tamil Nadu | India

Regulation


R2024

AY: 2024-2025

B.E.	S. No	Course code	Category	Theory Course	Contact Hours	L	T	P	C	CIA	ESE	Total Mark	Exam Hour
MECHANICAL ENGINEERING 5th SEMESTER	1	242MC1A54TA	PCC	Design of Transmission system	3	3	-	-	3	40	60	100	3
	2	242MC1A54TB	PCC	Applied Hydraulics and Pneumatics	3	3	-	-	3	40	60	100	3
	3	242MC1A54TC	PCC	Heat and Mass Transfer	3	3	-	-	3	40	60	100	3
	4	242MC1A54TD	PCC	Mechatronics, Robotics & Control	3	3	-	-	3	40	60	100	3
	5	242MC1A55TE	PEC	EV Mechanical Design Development and Analysis	3	3	-	-	3	40	60	100	3
	6	242MC1A56TF	OEC	OEC-2	3	3	-	-	3	40	60	100	3
Hours Talley				Practical Course									
Contact hrs. = 28	7	242MC1A54PA	PCC	Hydraulics and Pneumatics Lab.	2	-	-	2	1	50	50	100	3
Placement/MD = 1	8	242MC1A54PB	PCC	Heat and Mass Transfer Lab.	2	-	-	2	1	50	50	100	3
Aptitude Training = 1	9	242MC1A54PC	PCC	Mechatronics and Robotics Lab.	2	-	-	2	1	50	50	100	3
Seminar = 1	10	242MC1A57PD	I&P	Internship-I (Evaluation)	2	-	-	2	2	50	50	100	3
Mentor-Mentee = 1	11	242EO1A59PE	EOC	Value added course-5	2	2	-	-	-	-	100	100	3
Library = 1					Total	28	20	-	8	23	-	-	-
Yoga/PD = 2													
Total hrs. 5x7 = 35													

L = Lecture, T = Tutorial, P = Practical, C = Credits,	4	PCC=Professional Core Course
CIA = Continuous Internal Assessment	5	PEC=Professional Elective
ESE = End Semester Exam.	6	OEC=Open Elective Course
1		BSC=Basic Science Course
2		HSMC=Humanities and Social Science and Mgt.
	7	I/PROJ = Internship/Project
	8	MD= Mandatory Course

3	ESC=Engineering Science Course	9	EO=Value added course
---	--------------------------------	---	-----------------------

	Academy of Maritime Education and Training (AMET) Deemed to be University #135 East Coast Road Kanathur Chennai-603112 Tamil Nadu India										Regulation R2024 AY: 2024-2025			
	B.E.	S. No	Course code	Category	Theory Course	Contact Hours	L	T	P	C	CIA	ESE	Total Mark	Exam Hour
MECHANICAL ENGINEERING 6th SEMESTER	1	242MC1A64TA	PCC	Operation Research	3	3	-	-	3	40	60	100	3	
	2	242MC1A64TB	PCC	Automobile Engineering	3	3	-	-	3	40	60	100	3	
	3	242MC1A64TC	PCC	Power Plant Engineering	3	3	-	-	3	40	60	100	3	
	4	242MC1A65TD	PEC	EV Product Development Homologation and Hydrogen FCEV	3	3	-	-	3	40	60	100	3	
	5	242MC1A65TE	PEC	PEC-5	3	3	-	-	3	40	60	100	3	
	6	242MC1A66TF	OEC	OEC-3	3	3	-	-	3	40	60	100	3	
	7	242MC1A62TG	HSMC	Professional Ethics and Human values	2	2	-	-	-	40	60	100	3	
Hours Talley					Practical Course									
Contact hrs. = 24	8	242MC1A64PA	PCC	Automobile Engineering Lab.	2	-	-	2	1	50	50	100	3	
Placement = 1	9	242MC1A67PB	PROJ	Engineering Project work -1	2	-	-	2	2	50	50	100	3	
Aptitude Training = 2	10	242MC1A69PC	EOC	Value added course-6	-	-	-	-	-	-	100	100	3	
Seminar = 3				Internship-II (Orientation VI Semester Vacation)										
Mentor-mentee = 1					Total	24	20	-	4	21	-	-	-	-
Library = 2														
Yoga/PD = 2														
Total hrs. 5x7=35														

L = Lecture, T =Tutorial, P = Practical, C = Credits	4	PCC=Professional Core Course
CIA = Continuous Internal Assessment	5	PEC=Professional Elective
ESE = End Semester Exam.	6	OEC=Open Elective Course
1	7	I/PROJ = Internship/Project
2	8	MD= Mandatory Course
3	9	EO=Value added course
1		BSC=Basic Science Course
2		HSMC=Humanities and Social Science and Management
3		ESC=Engineering Science Course



Academy of Maritime Education and Training (AMET)

Deemed to be University

#135 East Coast Road | Kanathur | Chennai-603112 | Tamil Nadu | India

Regulation

R2024

AY: 2024-2025

B.E.	S. No	Course code	Category	Theory Course	Contact Hours	L	T	P	C	CIA	ESE	Total Mark	Exam Hour
MECHANICAL ENGINEERING 7th SEMESTER	1	242MC1A74 TA	PCC	Refrigeration and Air conditioning	3	3	-	-	3	40	60	100	3
	2	242MC1A74 TB	PCC	Production Planning and Control	3	3	-	-	3	40	60	100	3
	3	242MC1A72TC	HSMC	Entrepreneurship and Start-ups	3	3	-	-	3	40	60	100	3
	4	242MC1A75TD	PEC	EV FEA Analysis	3	3	-	-	3	40	60	100	3
	5	242MC1A76 TE	OEC	OEC-4	3	3	-	-	3	40	60	100	3
Hours Talley				Practical Course									
Contact hrs. = 21	6	242MC1A74PA	PCC	Refrigeration and Air conditioning Laboratory	2	-	-	2	1	50	50	100	3
Placement/MD = 3	7	242MC1A77PB	PROJ	Engineering Project work-2	2	2	-	-	2	50	50	100	3
Aptitude Training = 3	8	242MC1A77PC	I&P	Internship-II (Evaluation)	2	-	-	2	2	50	50	100	3
Seminar = 3				Internship-III, Orientation in VII Semester/ Winter Vacation.									
Mentor-mentee = 1				Total	21	17	-	4	20	-	-	-	-
Library = 3													
Yoga/PD = 3													
Total hrs. 5x7 = 35													

L = Lecture, T =Tutorial, P = Practical, C = Credits	4	PCC=Professional Core Course
CIA = Continuous Internal Assessment	5	PEC=Professional Elective
ESE = End Semester Exam.	6	OEC=Open Elective Course
1	7	I/PROJ = Internship/Project
2	8	MC= Mandatory Course
3	9	VAC=Value added course



Academy of Maritime Education and Training (AMET)

Deemed to be University

#135 East Coast Road | Kanathur | Chennai-603112 | Tamil Nadu | India

Regulation

R2024

AY: 2024-2025

B.E.	S. No	Course code	Category	Theory Course	Contact Hours	L	T	P	C	CIA	ESE	Total Mark	Exam Hour		
MECHANICAL ENGINEERING 8th SEMESTER	1	242MC1A85TB	PEC	EV Data Analysis and Cyber Security	3	3	-	-	3	40	60	100	3		
	2	242MC1A84TA	PCC	Industrial Internet of Things and Industry 4.0	3	3	-	-	3	40	60	100	3		
Hours Talley				Practical Course											
Contact hrs. = 22	3	242MC1A87PA	I&P	Internship-III (Evaluation)	2	-	-	2	2	50	50	100	3		
Placement/MD = 3	4	242MC1A84PB	PCC	Technical Paper Writing / Conference	2	-	-	2	-	-	-	-	-		
Aptitude Training = 3	5	242MC1A87PC	PROJ	Engineering Project work-3	12	-	-	12	6	50	25	100	3		
Seminar = 3				Total				22	6	-	16	14		-	-
Mentor-mentee = 1															
Library = 3															
Yoga/PD = 0															
Total hrs. 5x7 = 35															

L = Lecture, T =Tutorial, P = Practical, C = Credits	4	PCC =Professional Core Course
CIA = Continuous Internal Assessment	5	PEC =Professional Elective
ESE = End Semester Exam.	6	OEC =Open Elective Course
1		BSC =Basic Science Course
2		HSMC =Humanities and Social Science and Mgt.
3		ESC =Engineering Science Course
	7	I/PROJ = Internship/Project
	8	MD = Mandatory Course
	9	EO =Value added course

Category and Semester Wise Credit Distribution									
Code & Category	I	II	III	IV	V	VI	VII	VIII	Total
1. BSC	8	8	4	3	-	-	-	-	23
2. HSMC	1	3	1	1	-	-	3	-	9
3. ESC	10	12	-	-	-	-	-	-	22
4. PCC	-	-	11	12	15	10	7	3	58
5. PEC	-	-	3	3	3	6	3	3	21
6. OEC	-	-	-	3	3	3	3	-	12
7. I & P	-	-	-	-	2	2	4	8	16
8. MD	-	-	-	-	-	-	-	-	-
9. EO-VAC	-	-	-	-	-	-	-	-	-
Total	19	23	19	22	23	21	20	14	161

CATEGORY WISE CREDITS DISTRIBUTION:

S. No	Category Wise Credits Distribution	AMET		AICTE	
1	Basic Science Course	23	14 %	29	18 %
2	Humanities and Social Science Course and Management	9	6 %	12	8 %
3	Engineering Science Course	22	14 %	27	16 %
4	Professional Core Course	58	36%	58	36 %
5	Professional Elective Course	21	13 %	9	6 %
6	Open Elective Course	12	7 %	9	6 %
7	Industrial Internship, Projects	16	10 %	16	10 %
8	Mandatory Course	0	0 %	0	0 %
9	Value Added Course	0	0 %	0	0 %
	Total	161	100 %	160	100 %

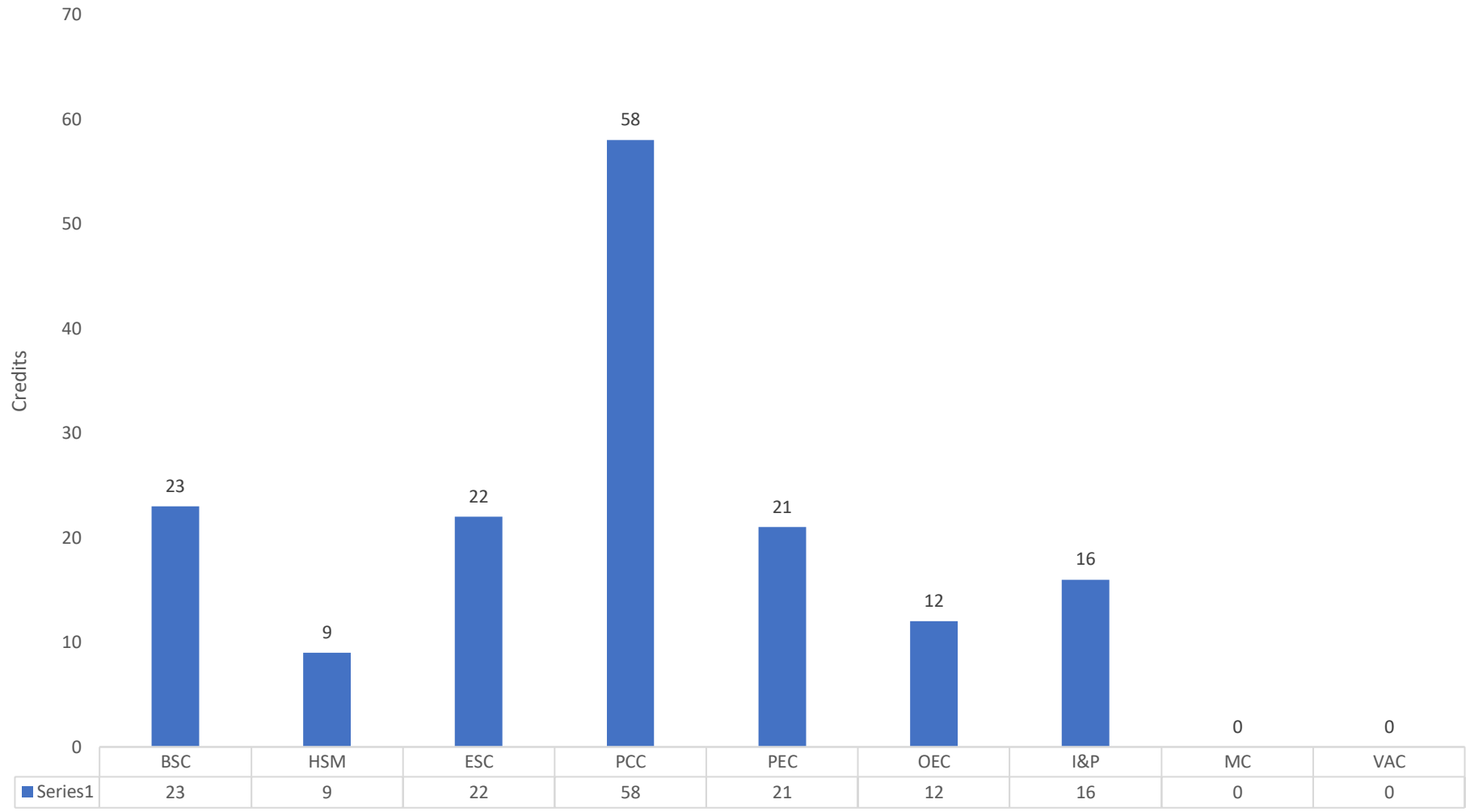
As per	BSC	HSMC	ESC	PCC	PEC	OEC	Internship	Total Credits
AICTE	25	12	24	48	18	18	15	160
AMET (Range)	15 - 25	5 - 15	20- 30	50 - 60	15 - 25	10 - 15	15 - 20	160-170
AMET	23	9	22	58	21	12	16	161

SEMESTER HOURS TALLEY TABLE

SEMESTER-1		SEMESTER-3		SEMESTER-5		SEMESTER-7	
Contact Hours	27	Contact Hours	26	Contact Hours	28	Contact Hours	21
Placement	0	Placement	2	Placement	1	Placement	2
Aptitude Training	1	Aptitude Training	1	Aptitude Training	1	Aptitude Training	3
Seminar	2	Seminar	2	Seminar	1	Seminar	4
Mentor-Mentee	1	Mentor-Mentee	1	Mentor-Mentee	1	Mentor-Mentee	1
Library	2	Library	1	Library	1	Library	2
Yoga/PD	2	Yoga/PD	2	Yoga/PD	2	Yoga/PD	2
Total Hours	35	Total Hours	35	Total Hours	35	Total Hours	35

SEMESTER-2		SEMESTER-4		SEMESTER-6		SEMESTER - 8	
Contact Hours	31	Contact Hours	27	Contact Hours	24	Contact Hours	22
Placement	0	Placement	1	Placement	1	Placement	2
Aptitude Training	1	Aptitude Training	1	Aptitude Training	2	Aptitude Training	2
Seminar	1	Seminar	2	Seminar	3	Seminar	4
Mentor-Mentee	1	Mentor-Mentee	1	Mentor-Mentee	1	Mentor-Mentee	1
Library	1	Library	1	Library	2	Library	2
Yoga/PD	0	Yoga/PD	2	Yoga/PD	2	Yoga/PD	2
Total Hours	35	Total Hours	35	Total Hours	35	Total Hours	35

Category Wise Credit Distribution



Category