School of Engineering & Technology
M. Tech Computer Science & Engineering

Credit Definition

Type	Duration (in Hour)	Credit
Lecture (L)	1	1
Tutorial (T)	1	1
Practical (P)	2	1

Total Credit

Year	Semester	hrs./Week	Credit
1st	1st	38	30
	2nd	32	26
2nd	3rd	22	18
	4th	14	14
Total			**88**

Category Codification with Credit Break up

Definition of Category	Code	No	Credit
Basic Science	BS/BSAE	1	4
Engineering Science	ES	2	0
Professional Core	CC/PCC	3	46
Professional Elective (Discipline Specific)	PE	4	12
Open Elective (General Elective)	GE/OE	5	0
Humanities & Social Science including Management	AECC /HSM/ PAECC	6	0
Project Work / Seminar / Internship / Entrepreneurship	SEC/PSE/CLE	7	18
Mandatory / University Specified (Environmental Sc. / Induction Training / Indian Constitution / Foreign language)	USC/ MUS	8	8
Total			88

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Category wise Credit Distribution

CREDIT DISTRIBUTION

- USC/MUS 9.1%
- BS/BSAE 4.5%
- SEC/PSE/CLE 20.5%
- CC/PCC 52.3%
- PE 13.6%
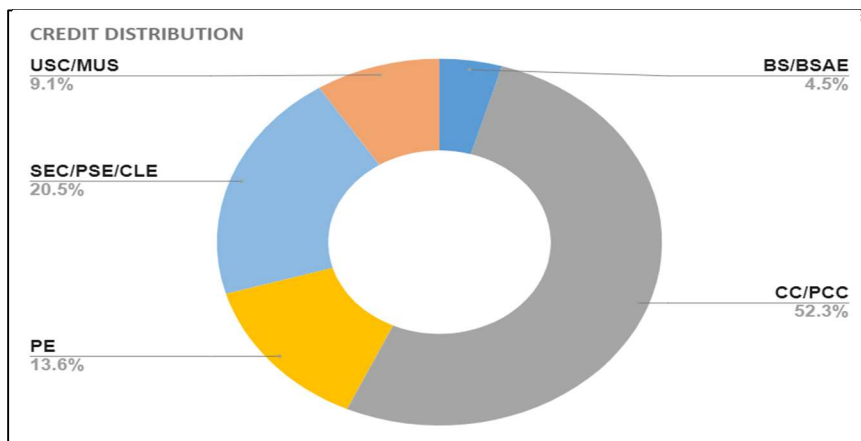
SEMESTER: I

Mandatory Induction Program – Duration 3 weeks

- Physical Activity
- Creative Arts
- Universal Human Values
- Literary
- Proficiency Modules
- Lectures by Eminent People
- Visits to Local Areas
- Familiarization to Department/Branch & Innovations

Sl No	Course Title	Code	Credit	Type		
				L	T	P
1	Mathematical Foundations of Computer Science	7000081101	4	3	1	0
2	Object Oriented Analysis and Design	1000081101	4	4	0	0
3	Computer Network and Distributed Systems	1000081102	4	4	0	0
4	Operating Systems and System Programming	1000081103	4	4	0	0
5	Advanced Data Structures	1000081104	4	4	0	0
6	Object Oriented Analysis and Design lab	1000081201	2	0	0	2
7	Computer Network and Distributed Systems Lab	1000081202	2	0	0	2
8	Operating Systems and System Programming Lab	1000081203	2	0	0	2
9	Advanced Data Structures Lab	1000081204	2	0	0	2
10	Foreign Language - I	6000081101	2	2	0	0
Total Credit (L:21, T:1, P:8)			**30**	**38 (hrs./Week)**		

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SEMESTER: II

Sl No	Course Title	Code	Credit	Type		
				L	T	P
1	Data Mining & Warehousing	1000082105	4	4	0	0
2	Compiler Design	1000082106	4	4	0	0
3	Cloud Computing	1000082107	4	3	1	0
4	Machine Learning	1000082108	4	4	0	0
5	Data Mining & Warehousing Lab	1000082205	2	0	0	2
6	Compiler Design Lab	1000082206	2	0	0	2
7	Machine Learning Lab	1000082207	2	0	0	2
8	Term Paper	5000082401	2	2	0	0
9	Foreign Language - II	6000082102	2	2	0	0
Total Credit (L:19,T:1,P:6)			**26**	**32 (hrs./Week)**		

SEMESTER: III

Sl No	Course Title	Code	Credit	Type		
				L	T	P
1	Elective – I (Professional)	2000083101	4	4	0	0
2	Elective – II (Professional)	2000083102	4	4	0	0
3	Project-1	5000083501	4	0	0	0
4	Elective – I (Professional) Lab	2000083201	2	0	0	2
5	Elective – II (Professional) Lab	2000083202	2	0	0	2
6	Foreign Language - III	6000083103	2	2	0	0
Total Credit (L:10, T:0, P:4)			**18**	**18 (hrs./Week)**		

Elective Papers I:
Image Processing, Soft Computing, Neural Network & Neuro Fuzzy Computing, Pattern Recognition &
Machine Learning, Big data

Elective Papers I I:
Advanced Search & Optimization Techniques, Digital Signal Processing, Programmable Hardware &
Reconfigurable Computing, Mobile Computing, Cryptography and Network Security

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SEMESTER: IV

Sl No	Course Title	Code	Credit	Type		
				L	T	P
1	Project-2	5000084502	8	0	0	0
2	Comprehensive Viva	5000084601	4	0	0	0
3	Foreign Language - IV	6000084104	2	2	0	0
Total Credit (L:2, T:0, P:0)			**14**	**2 (hrs./Week)**		