

**Post Graduate Department of Computer Sciences,
The University of Kashmir,
Srinagar - 190006**



**Curriculum
for
Master of Technology in
Computer Science**

2020 – 2021

M. I.

Ahmad

Chaudhary

Arif

M. I.

Arif

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Structure of Curriculum for M. Tech. in Computer Science

Semester-I (24 Credit unit Semester)						
Course Code	Course name	Category	Hours / Week			Credits
			L	T	P	
CORE SUBJECTS						
CSE20511	Embedded Systems	Core	4	0	0	4
CSE20512	Lab Embedded Systems	Core	0	0	4	2
CSE20513	Graph Theory	Core	4	0	0	4
CSE20514	Lab Graph Theory	Core	0	0	4	2
CSE20515	Artificial Intelligence	Core	4	0	0	4
ELECTIVE SUBJECTS						
CSE20516x	Elective 1	Elective	4	0	0	4
CSE20516x	Elective 2	Elective	4	0	0	4

List of Elective Subjects:

- i) CSE205161 Advance Data Communications
- ii) CSE205162 Advanced Database Management Systems
- iii) CSE205163 Engineering Mathematics
- iv) CSE205164 Object Oriented ~~Analysis & Design~~
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Semester-II (24 Credit unit Semester)						
Course Code	Course name	Category	Hours / Week			Credits
			L	T	P	
CORE SUBJECTS						
CSE20521	Network Security and Cryptography	Core	4	0	0	4
CSE20522	Lab Network Security and Cryptography	Core	0	0	4	2
CSE20523	Image Processing	Core	4	0	0	4
CSE20524	Lab Image Processing	Core	0	0	4	2
CSE20525	Machine Learning	Core	4	0	0	4
ELECTIVE SUBJECTS						
CSE20526x	Elective 1	Elective	4	0	0	4
CSE20526x	Elective 2	Elective	4	0	0	4

List of Elective Subjects:

- i) CSE205261 Advanced Algorithms
- ii) CSE205262 Software Reliability Engineering
- iii) CSE205263 Optimization Techniques
- iv) CSE205264 Big Data

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M. Tech. Syllabus –P.G. Dept. of Computer Science, University of Kashmir

Semester-III (24 Credit unit Semester)						
Course Code	Course name	Category	Hours / Week			Credits
			L	T	P	
CORE SUBJECTS						
CSE20531	Minor Project <i>Computing</i>	Core	0	4	0	4
CSE20532	Parallel and Distributed <i>Algorithms</i>	Core	4	0	0	4
CSE20533	Real Time Operating Systems	Core	4	0	0	4
CSE20534	Advanced Wireless and Mobile Computing	Core	4	0	0	4
ELECTIVE SUBJECTS						
CSE20535x	Elective 1	Elective	4	0	0	4
CSE20535x	Elective 2	Elective	4	0	0	4

List of Elective Subjects:

- i) CSE205351 Cloud Computing
- ii) CSE205352 Internet of Things
- iii) CSE205353 Natural Language Processing
- iv) CSE205354 Block Chain

Semester-IV (24 Credit unit Semester)						
Course Code	Course name	Category	Hours / Week			Credits
			L	T	P	
CORE SUBJECTS						
CSE20541	Major Project Problem Identification	Core	0	2	0	2
CSE20542	Major Project Problem Analysis	Core	0	4	0	4
CSE20543	Major Project Software Development	Core	0	6	0	6
CSE20544	Major Project Research Component	Core	0	6	0	6
CSE20545	Major Project Dissertation	Core	0	6	0	6

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Sharma