

Maulana Azad National Institute of Technology, Bhopal
Department of Computer Science & Engineering

Schema for M.Tech (Advance Computing) I Semester to IV Semester

Semester I

Course number	Subject	Schemes of Studies Periods per week			Credits
		L	T	P	
AC 511	Mathematical Foundations of Computer Science	3	-	-	3
AC 512	Advanced Data Structures	3	-	-	3
AC 513	Architecture of Large Systems	3	-	-	3
AC 531-535	Elective - I	3	-	-	3
AC 541-544	Elective - II	3	-	-	3
AC 571-575	Open Elective - I	3	-	-	3
AC 514	Advanced Data Structures Lab	-	-	2	1
AC 515	Electives Lab - I	-	-	2	1
AC 516	Seminar - I	-	-	2	2
Total credit					22

Departmental Electives

Course number	Elective I	Course number	Elective II
AC 531	Data Mining	AC 541	Stochastic Process & Queuing Theory
AC 532	Operating System & Design	AC 542	Information Theory & Coding
AC 533	Web Search & Information Retrieval	AC 543	Computer & Network Security
AC 534	Digital Image Processing	AC 544	Embedded Systems
AC 535	Internet of Things (IoT)		

Open Elective

Course number	Open Elective I
AC 571	Distributed Computing
AC 572	Object Oriented Design & Modeling
AC 573	Optimization Techniques
AC 574	Cloud Computing
AC 575	Support Vector Machine

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Semester II

Course number	Subject	Schemes of Studies Periods per week			Credits
		L	T	P	
AC 521	High Performance Scientific Computing	3	-	-	3
AC 522	Graph Theory & Algorithms	3	-	-	3
AC 523	Soft Computing	3	-	-	3
AC 551-555	Elective - III	3	-	-	3
AC 561-564	Elective - IV	3	-	-	3
AC 581-585	Open Elective - II	3	-	-	3
AC 524	High Performance Scientific Computing Lab	-	-	2	1
AC 525	Electives Lab - II	-	-	2	1
AC 526	Seminar - II	-	-	2	2
Total credit					22

Departmental Electives

Course number	Elective III	Course number	Elective IV
AC 551	Cluster & Grid Computing	AC 561	Distributed Databases
AC 552	Natural Language Processing	AC 562	Ad hoc & Sensor Networks
AC 553	Advance Software Engineering	AC 563	Semantic Web
AC 554	Machine Learning	AC 564	Parallel Algorithms
AC 555	Professional Communication	AC 565	---

Open Elective

Course number	Open Elective II
AC 581	Image Analysis
AC 582	Statistical Methods
AC 583	Big Data Analytics
AC 584	Technical Foundation for e-Commerce
AC 585	Integer Programming

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Semester III

Subject Code	Subject	Scheme of Studies Period per week			Credits
		L	T	P	
AC - 611	Dissertation Phase -I	-	-	23	23
Total Credit					23

Semester IV

Subject Code	Subject	Scheme of Studies Period per week			Credits
		L	T	P	
AC - 621	Dissertation Phase –II	-	-	23	23
Total Credit					23