



TECHNO INDIA UNIVERSITY

W E S T B E N G A L

Department of Computer Applications

Course Curriculum for Two Years MCA Program

1ST SEMESTER

Course Code	Course Title	Contact Hrs. / Week			Credit
		L	T	P	
Theory					
TIU-PMA-T121	Operations Research	2	1	0	3
TIU-PCA-T131	Cloud Computing	2	1	0	3
TIU-PCA-T125	Advanced Database Management Systems	2	1	0	3
TIU-PCA-T133	Design and Analysis of Algorithms	2	1	0	3
TIU-PCA-T135	Tools and Techniques of Programming using Python	2	1	0	3
Practical					
TIU-PCA-L125	ADBMS Lab	0	0	3	2
TIU-PCA-L129	Python programming Lab	0	0	3	2
TIU-PCA-L127	Design and Analysis of Algorithms Lab	0	0	3	2
Sessional					
TIU-PEN-S103	Career advancement and Skill Development	1	1	0	2
TIU-PES-S199	Entrepreneurship Skill Development	0	0	3	2
Total Credits					25



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2ND SEMESTER

Course Code	Course Title	Contact Hrs. / Week			Credit
		L	T	P	
Theory					
TIU-PCA-T140	Big Data Analytics	2	1	0	3
TIU-PCA-T142	OOP in Java	2	1	0	3
TIU-PCA-T144	Cryptography and Information Security	2	1	0	3
TIU-PCA-T126	Networking and Mobile Communications	2	1	0	3
TIU-PCA-T134	AI and Machine Learning	2	1	0	3
Practical					
TIU-PCA-L122	OPP in java Lab	0	0	3	2
TIU-PCA-L130	Machine Learning Lab	0	0	3	2
TIU-PCA-L144	Information Security Lab	0	0	3	2
Sessional					
TIU-PEN-S102	CAREER ADVANCEMENT & SKILL DEVELOPMENT(PHP and MySQL)	1	1	1	2
TIU-PES-S198	Entrepreneurship Skill Development	0	0	3	2
Total Credits					25



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3rd Semester

Course Code	Course Title	Contact Hrs. / Week			Credit
		L	T	P	
Theory					
TIU-PCA-T227	Advanced Java (J2EE)	3	0	0	3
TIU-PCA-T223	Tools and Techniques of R Programming	2	1	0	3
TIU-PCA-T217	Blockchain for Enterprises	2	1	0	3
TIU-PCA-E215B	Software Project Management with Agile Methodologies (Elective I)	2	1	0	3
TIU-PCA-E211	Data Warehousing and Data Mining (Elective II)	2	1	0	3
Practical					
TIU-PCA-L207	Web Technology Lab	0	0	3	2
TIU-PCA-L217	R programming Lab	0	0	3	2
Sessional					
TIU-PCA-S205	Career Advancement and Skill Development-(SAP-ABAP and Design Pattern)	2	1	2	2
TIU-PCA-P289	Minor Project & Seminar	0	0	3	8
TIU-PES-S299	Entrepreneurship Skill Development	0	0	2	2
Total credit					31



4th Semester

Course Code	Course Title	Contact Hrs. / Week			Credit
		L	T	P	
Theory					
TIU-PCA-T226	Advanced Data Science through R and Python	3	1	0	4
TIU-PCA-T222	Big Data Analytics	2	1	0	3
TIU-PCA-T228	Introduction to IOT	2	0	0	2
TIU-PCA-E212	Deep Learning (Elective III)	2	1	0	3
Practical					
TIU-PCA-L226	Advanced Data Science through R and Python programming Lab	0	0	3	2
TIU-PCA-L212	Deep Learning Lab	0	0	3	2
TIU-PCA-L208	Android Development Lab	0	0	3	2
TIU-PCA-L228	Internet of Things Lab	0	0	3	2
Sessional					
TIU-PCA-S200	Career Advancement & Skill Development-(Angular Java Script and No SQL Database with Mongo dB)	2	0	0	2
TIU-PES-S298	Entrepreneurship Skill Development	0	0	2	2
TIU-PCA-P296	Major Project	0	0	3	10
TIU-PCA-G298	Grand Viva	0	0	0	2
Total Credits					36