SCHEME OF EXAMINATION

Subject Code	Subject	Hrs of Instruction	Exam. Duration (Hours)	Max.marks			Credit Points
				CA	CE	Total	
FirstSemester							
Part A							
18PMAM101	Core I: Linear Algebra	6	3	25	75	100	5
18PMAM102	Core II: Real Analysis	5	3	25	75	100	4
18PMAM103	Core III: Mechanics	6	3	25	75	100	4
18PMAM104	Core IV: Ordinary Differential Equations	5	3	25	75	100	4
18PMAM105	Core V: Graph Theory	5	3	25	75	100	4
18PMAMP101	Core Practical I: Mathematical Text Editor Latex	2	3	40	60	100	2
Non – Credit							
18PLS101	Career Competency Skills I	1	---	---	---	---	---
	Total	**30**				**600**	**23**
Second Semester							
Part A							
18PMAM201	Core VI: Algebra	6	3	25	75	100	5
18PMAM202	Core VII: Topology	6	3	25	75	100	5
18PMAM203	Core VIII: Measure Theory and Integration	5	3	25	75	100	4
18PMAM204	Core IX: Partial Differential Equations	5	3	25	75	100	4
	Elective I	5	3	25	75	100	4
Part B							
18PVE201	Value Education: Human Rights	2	3	25	75	100	2
Non – Credit							
18PLS201	Career Competency Skills II	1	---	---	---	---	---
	Total	**30**				**600**	**24**

Third Semester							
Subject Code	**Subject**	**Hours/ week**	**Exam. Duration (Hours)**	**Max.marks**			**Credit Points**
				CA	CE	Total	
Part A							
18PMAM301	Core X: Complex Analysis	6	3	25	75	100	5
18PMAM302	Core XI: Fluid Dynamics	6	3	25	75	100	5
18PMAM303	Core XII: Optimization Techniques	6	3	25	75	100	4
	Elective II	5	3	25	75	100	4
18PCSMAI301	IDC: Programming in C++	4	3	25	75	100	2
18PCSMAIP301	IDC Practical: Programming in C++	3	3	40	60	100	2
	Total	**30**				**600**	**22**
Fourth Semester							
Part A							
18PMAM401	Core XIII: Functional Analysis	6	3	25	75	100	5
18PMAM402	Core XIV: Integral Equations and Calculus of Variations	6	3	25	75	100	4
18PMAM403	Core XV: Numerical Analysis	6	3	25	75	100	4
18PMAM404	Core XVI: Fuzzy Sets and Fuzzy Logic	5	3	25	75	100	4
18PMAM405	Core XVII: MATLAB	4	3	25	75	100	2
18PMAMP401	Core Practical II: MATLAB	3	3	40	60	100	2
	Total	**30**				**600**	**21**
					Grand Total	**2400**	**90**

ELECTIVE SUBJECTS:

Students shall opt an elective subject from the list of ELECTIVE I **(**SEMESTER II)

ELECTIVE I (SEMESTER II)

S.No	Subject Code	Subject
1	18PMAEL201	Design Theory
2	18PMAEL202	Stochastic process
3	18PMAEL203	Difference Equations

Students shall opt an elective subject from the list of ELECTIVE II (SEMESTER III).

ELECTIVE II (SEMESTER III)

S.No	Subject Code	Subject
1	18PMAEL301	Control Theory
2	18PMAEL302	Neural Networks
3	18PMAEL303	Number Theory

FOR COURSE COMPLETION

Students shall

- Complete all Major papers

- Opt any one Elective Subject in each of Second and Third semester.

- Complete one value education in Second semester.

- Career Competency Skills papers as non credit course in I and II semester.

- Complete one IDC in Third semester.

TOTAL CREDIT DISTRIBUTION

Components	Total Marks		Credits
Core	100X17 PAPERS	1700	72
Elective	100X2 PAPERS	200	8
IDC	100X1 PAPER	100	2
Core Practical	100X2 PAPERS	200	4
IDC Practical	100X1 PAPER	100	2
Value Education	100X1 PAPER	100	2
Total	**No. of papers 24**	**2400**	**90**