Name of Institute Name of the Faculty member Discipline Semester Subject Lesson Plan Duration Work Load		Faculty member : Ashok Kumar : Mechanical Engineering : 6 <sup>th</sup> : Computer Aided Design and Manufacturing (ME-308N)
1 <sup>st</sup>	1	Introduction to CAD/CAM
	2	Historical Development
	3	Industrial look at CAD/CAM Application of CA/CAM,
	4	Display devices, Input/ Output Devices, CPU.
2 <sup>nd</sup>	5	Introduction to CIM
	6	Definition, Nature of Elements of CIM,
	7	CIM Wheel
	8	Introduction to computer aided quality control,
3 <sup>rd</sup>	9	Contact and Non Conduct Inspection Method.
	10	Wireframe modeling,
	11	Representation of curves,
	12	CLASS TEST
4 <sup>th</sup>	13	, Parametric and non-parametric curves
	14	straight lines, Hermite cubic splines
	15	B splines curves.
	16	Plane surface, ruled surface
5 <sup>th</sup>	17	surface of revolution
	18	bi-cubic surface
	19	Bezier surface
	20	Sessional Test-1
6 <sup>th</sup>	21	B spline surface
	22	Solid modeling
	23	boundary representation
	24	sweeping, parametric solid modeling
7 <sup>th</sup>	25	Introduction, Transformation of points & line
	26	2-D translation
	27	rotation, Reflection
	28	CLASS TEST
8 <sup>th</sup>	29	Scaling
	30	shearing and combined transformation
	31	, Homogeneous coordinates
	32	Orthographic and perspective Projections.
9 <sup>th</sup>	33	Group technology
	34	Part families,
	35	Part classification
	36	coding

10 <sup>th</sup>	37	Optiz method
	38	product flow analysis
	39	Machine cell Design, Advantages of GT
	40	Sessional Test-2
11 <sup>th</sup>	42	Numerical control
	42	Types of NC systems
	43	MCU & other components
	44	Co-ordinate system
12 <sup>th</sup>	45	NC manual part programming
	46	G & M codes
	47	part program for simple parts
	48	Computer assisted part programming.
13 <sup>th</sup>	49	Computer assisted part programming.
	50	Introduction FMS
	51	CLASS TEST
	52	FMS component
14 <sup>th</sup>	53	Types of FMS
	54	FMS layout
	55	planning for FMS
	56	advantage and applications
15 <sup>th</sup>	57	Introduction, conventional process planning
	58	Steps in variant process planning
	59	types of CAPP
	60	Sessional Test-3

(Signature of the teacher concerned with date)