

# **CURRICULUM**

**M.E. (Part Time)**

**(COMPUTER INTEGRATED MANUFACTURING)**

**(Choice Based Credit System)**

**(With effect from 2008-2009)**



**DEPARTMENT OF MECHANICAL ENGINEERING**

**Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya**

(Declared as Deemed-to-be University under Section 3 of the UGC Act, 1956,  
vide notification No.F.9.9/92-U-3 dated 26<sup>th</sup> May 1993 of the Govt. of India)

Enathur, Kanchipuram - 631561



## SRI CHANDRASEKHARENDRASARASWATHI VISWA MAHAVIDYALAYA

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### DEPARTMENT OF MECHANICAL ENGINEERING

#### P.G. CURRICULUM 2008 – PART TIME MODE

#### M.E. COMPUTER INTEGRATED MANUFACTURING

##### SEMESTER – I

Code	Subject	No. of Hours				Exam Hours	Maximum marks		
		L	T	P/D	C		I	E	TOT.
EMPCIM1FT081	Probability and Statistical Methods	3	1	0	3	3	40	60	100
EMPCIM1DT082	Applied Materials Engineering	3	0	0	3	3	40	60	100
EMPCIM1DT083	CNC Machines	3	0	0	3	3	40	60	100

##### SEMESTER – II

Code	Subject	No. of Hours				Exam Hours	Maximum marks		
		L	T	P/D	C		I	E	TOT.
EMPCIM2DT081	Robotics and Sensors	3	0	0	3	3	40	60	100
EMPCIM2DT082	Mechatronics and Manufacturing	3	0	0	3	3	40	60	100
EMPCIM2DT083	Finite Element Analysis in Manufacturing Engineering	3	0	0	3	3	40	60	100
<b>PRACTICAL</b>									
EMPCIM2DP081	CIM Laboratory - I	0	0	4	2	2	40	60	100

### SEMESTER – III

Code	Subject	No. of Hours				Exam Hours	Maximum marks		
		L	T	P/D	C		I	E	TOT.
EMPCIM3DT081	Computer Aided Design and Manufacturing	3	0	0	3	3	40	60	100
EMPCIM3DT082	Manufacturing Information System	3	0	0	3	3	40	60	100
EMPCIM3DE083 (A to D)	Elective - I	3	0	0	3	3	40	60	100

### SEMESTER – IV

Code	Subject	No. of Hours				Exam Hours	Maximum marks		
		L	T	P/D	C		I	E	TOT.
EMPCIM4DT081	Metrology And Non Destructive Testing	3	0	0	3	3	40	60	100
EMPCIM4DE082 (A to D)	Elective - II	3	0	0	3	3	40	60	100
EMPCIM4DE083 (E to H)	Elective - III	3	0	0	3	3	40	60	100
<b>PRACTICAL</b>									
EMPCIM4DP081	CIM Laboratory - II	0	0	2	2	2	40	60	100

### SEMESTER – V

Code	Subject	No. of Hours				Exam Hours	Maximum marks		
		L	T	P/D	C		I	E	TOT.
EMPCIM5DE081 (A to D)	Elective – IV	3	0	0	3	3	40	60	100
EMPCIM5DE082 (E to H)	Elective – V	3	0	0	3	3	40	60	100
EMPCIM5DE083 (J to M)	Elective – VI	3	0	0	3	3	40	60	100
<b>PRACTICAL</b>									
EMPCIM5DP081	Project Work Phase - I	0	0	12	6	3	40	60	100

### SEMESTER – VI

Code	Subject	No. of Hours				Exam Hours	Maximum marks		
		L	T	P/D	C		I	E	TOT.
EMPCIM6DP081	Project Work Phase - II	0	0	24	10	3	40	60	100

**L** : Lecture periods

**I** : Internal Assessment

**T** : Tutorial periods

**E** : External Assessment

**P/D** : Practical periods;

**Tot.** : Total Marks

**C** : Credits



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**DEPARTMENT OF MECHANICAL ENGINEERING**

**LIST OF ELECTIVES**

**M.E. COMPUTER INTEGRATED MANUFACTURING**

**ELECTIVE-I**

Code	Subject	No. of Hours				Exam Hours	Maximum marks		
		L	T	P/D	C		I	E	TOT.
EMPCIM3DE083A	Computer Applications in Manufacturing	3	0	0	3	3	40	60	100
EMPCIM3DE083B	Total Quality Systems and Engineering	3	0	0	3	3	40	60	100
EMPCIM3DE083C	Rapid Prototyping	3	0	0	3	3	40	60	100
EMPCIM3DE083D	Advances in Manufacturing Technology	3	0	0	3	3	40	60	100

**ELECTIVE -II**

Code	Subject	No. of Hours				Exam Hours	Maximum marks		
		L	T	P/D	C		I	E	TOT.
EMPCIM4DE082A	Design for Manufacturing	3	0	0	3	3	40	60	100
EMPCIM4DE082B	CIP and Inventory Systems	3	0	0	3	3	40	60	100
EMPCIM4DE082C	Metal Forming Technology	3	0	0	3	3	40	60	100
EMPCIM4DE082D	Corrosion and Surface Engineering	3	0	0	3	3	40	60	100

**ELECTIVE - III**

Code	Subject	No. of Hours				Exam Hours	Maximum marks		
		L	T	P/D	C		I	E	TOT.
EMPCIM4DE083E	Design of Hydraulics and Pneumatic Systems	3	0	0	3	3	40	60	100
EMPCIM4DE083F	Tool Engineering	3	0	0	3	3	40	60	100
EMPCIM4DE083G	Discrete System Simulation	3	0	0	3	3	40	60	100
EMPCIM4DE083H	Nano Technology	3	0	0	3	3	40	60	100

**ELECTIVE - IV**

Code	Subject	No. of Hours				Exam Hours	Maximum marks		
		L	T	P/D	C		I	E	TOT.
EMPCIM5DE081A	Advances in Welding and Casting Processes	3	0	0	3	3	40	60	100
EMPCIM5DE081B	Reliability and Total Productive Maintenance	3	0	0	3	3	40	60	100
EMPCIM5DE081C	Computer Aided Process Planning	3	0	0	3	3	40	60	100
EMPCIM5DE081D	Plastics and Composite Materials	3	0	0	3	3	40	60	100

### ELECTIVE -V

Code	Subject	No. of Hours				Exam Hours	Maximum marks		
		L	T	P/D	C		I	E	TOT.
EMPCIM5DE082E	Electronics Manufacturing Technology	3	0	0	3	3	40	60	100
EMPCIM5DE082F	Micro machining Process	3	0	0	3	3	40	60	100
EMPCIM5DE082G	Techniques of Material Characterization	3	0	0	3	3	40	60	100
EMPCIM5DE082H	Supply Chain Management	3	0	0	3	3	40	60	100

### ELECTIVE -VI

Code	Subject	No. of Hours				Exam Hours	Maximum marks		
		L	T	P/D	C		I	E	TOT.
EMPCIM5DE083J	Productivity Management and Re-engineering	3	0	0	3	3	40	60	100
EMPCIM5DE083K	Design of Cellular Manufacturing System	3	0	0	3	3	40	60	100
EMPCIM5DE083L	Information Systems Analysis and Design	3	0	0	3	3	40	60	100
EMPCIM5DE083M	Precision Engineering	3	0	0	3	3	40	60	100

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