

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN & MANUFACTURING JABALPUR

CURRICULUM – JULY 2010 ONWARDS (for Batches 2007, 2008, 2009 and 2010)

Semester III (24 Hours/Week) (For 2009 Batch only)

- NS 205 Mathematics for Discrete Domain (3L + 1T)
 ES 205 Fundamentals of Electronics (3L + 1T)
 MN 201 Fundamentals of Manufacturing Processes (3L)
 Professional Course I: (3L + 1T)
- ME 201 Thermodynamics [ME]
 EC 201 Digital Electronics & Microprocessor Technology [ECE, CSE]
- ES 207 Electronics Lab (3P)
 MN 202 Manufacturing Processes Workshop (3P)
 IT 204 IT Workshop III (3P) (OOPs with Java OR (PSPICE 6 turns + LabView 6 turns))
 OR (CATIA 6 turns + ADAMS 6 turns)

Semester IV (24 Hours/week) (For 2009 Batch only)

- DS 202 Engineering Design (3L)
 ES 208 Mechanical Drives and Devices (2L + 2 Hrs Lab)
 ES 209 Signals, Systems and Networks (3L)
 HS 203 Arts and Aesthetics (2L + 2 Hours Lab)
 Professional Course II: (3L)
- ME 202 Solid Mechanics [ME]
 CS 202 Principles of Operating Systems [ECE, CSE]
- Professional Course III: (3L + 1T)
- ME 203 Kinematics & Dynamics of Mechanical Systems [ME]
 CS 203 Fundamentals of Computer Systems (3L + 1T) [CSE & ECE]
 IT 206 IT Workshop IV (3P)

Semester V (25 Hours/week) (For 2008 and 2009 Batch students)

- MS 301 Management: Concepts and Techniques (3L)
 Professional Course IV: (3L + 1T)
- ME 304 Fluid Mechanics & Heat Transfer [ME]
 EC 304 Principles of Communications [ECE]
 CS 304 Object-Oriented Design & Analysis [CSE]
- Professional Course V: (3L)
- ME 305 Design of Mechanical Components [ME]
 EC 305 Fundamentals of Electromagnetic Theory [ECE]
 CS 305 Design and Analysis of Algorithms [CSE]
- Professional Course VI: (3L)
- ME 306 Advanced Manufacturing Processes and Technologies [ME]
 EC 306 Linear Integrated Circuits [ECE]
 CS 306 Computer Networks [CSE]
- Professional Course VII: (3L)

ME 307 Computer Integrated Manufacturing [ME]
EC 307 Advanced Electronic Devices [ECE]
CS 307 Artificial Intelligence [CSE]

ME 308 / EC 308/ CS 308 Professional (ME/EC/CSE) Lab I (3P)
DS 303 Project I (Design Project) (6P)

Semester VI (23 Hours/week) (For 2008 and 2009 Batch students)

ES 313 Sensing, Control and Mechatronics (3L + 2P)

Professional Course VIII: (3L)

ME 309 Finite Element Method [ME]
EC 309 Digital Signal Processing [ECE]
CS 309 Database Design and Management

Professional Course IX: (3L)

ME 310 Computer Aided Design [ME]
EC 310 Microprocessors and Interfacing [ECE]
CS 310 Language Theory [CSE]

Professional Course X: (3L)

ME 311 Energy Conversion Devices [ME]
EC 311 VLSI: Design & Testing [ECE]
CS 311 Design & Validation of Software Systems [CSE]

ME 312 /EC 312 /CS 312 Professional (ME/EC/CSE) Lab II (3P)

MN 303 Project II (Fabrication Project) (6P)

Semester VII (For 2008 and 2009 Batch students)

Project Based Internship

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One course from NPTEL

Semester VII (24 Hours/week) (For 2007 Batch students)

ES 413 Micro-Nano Science and Technology (3L)

Professional Course VII: (3L)

ME 410 Advanced Manufacturing Processes and Technologies [ME]
EC 408 Linear Integrated Circuits [ECE]
CS 409 Compiler Design [CSE] (3L)

Professional Course VIII: (3L)

ME 415 Computer Integrated Manufacturing [ME]
EC 409 VLSI: Design and Testing [ECE]
CS 410 Artificial Intelligence [CSE]

Professional Course IX: (3L)

ME 412 Finite Element Methods [ME]
EC 410 Advanced Electronic Devices [ECE]
CS 411 Computer Networks [CSE]

Professional Elective I (3L)

ME ... : CFD/ Optimization/ Advanced Materials
EC ... : Digital Communication
CS ... : Parallel Architecture/ Mobile Computing & Wireless Communication

ME 413 / EC 411 / CS 412 Professional (CSE/ME/EC) Lab III (3P)

PR 401 Advanced Project I (6P)

Semester VIII (21 Hrs/week) (Batch 2007)

Professional Course X: (3L)

ME 414 Design of Mechanical Systems [ME]
EC 412 Power Electronics [ECE]
CS 413 Design & Validation of Software Systems [CSE]

Professional Course XI: (3L)

ME 411 Management of Production Systems [ME]
EC 413 Applications of Electromagnetics [ECE]
CS 414 Distributed and Fault Tolerant Systems [CSE]

Professional Elective II (3L)

ME ... : Rapid Prototyping/ Manufacturing Science/ Vibrations of Mechanical Systems
EC ... : RF and Microwave Engineering.....
CS ... : Human Computer Interface.....

Open Elective I (3L)

Engineering Economics/ Industrial Psychology/ Industrial Sociology

Open Elective II (3L)

Business Models for Manufacturing/ Entrepreneurship & Technology Management/
Personnel Management & Industrial Relations/

PR 402 Advanced Project II (6P)

Semester VIII (15 Hrs/week) (Batch 2008 and 2009)

Professional Course XI: (3L)

ME 413	Design of Mechanical Systems [ME]
EC 413	RF and Microwave Engineering [ECE]
CS 413	Compiler Design [CSE]

Professional Course XI: (3L)

ME 414	Management of Production Systems [ME]
EC 414	Optical and Wireless Communications [ECE]
CS 414	Advanced Architecture [CSE]

Professional Elective II (3L)

ME ...:	Rapid Prototyping/ Vibrations of Mechanical Systems
EC:	Image Processing,
CS	Human Computer Interface.....

Open Elective I (3L)

Engineering Economics/ Industrial Psychology/ Industrial Sociology
Business Models for Manufacturing/ Entrepreneurship & Technology Management/ Personnel Management & Industrial Relations/

CS 415/ EC 415/ ME 415 Professional Lab III (3P)

Guidelines used for Course Category Classification and Numbering

NS	Natural Science
ES	Engineering Science
IT	Information Technology
DS	Design
MN	Manufacturing
MS	Management Science
HS	Humanities & Social Sciences
CS	Computer Science & Engineering
EC	Electronics & Communications Engineering
ME	Mechanical Engineering
PR	Project