Modified M.Tech Course to be offered by
The West Bengal University of Technology

M.Tech in Computer Science & Engineering (2007)

First three semesters will carry on the theoretical and practical clases and preliminary work leading to the project work. The last semester will be devoted completely to the project work;

There are two specialisations: A: Computer Science & Engineering & B: CSE (Embedded Systems)

Project Work: (3 semesters)
Semester 2 : to decide on the project to be undertaken;
Semesters 3: Project part 1:Preliminary studies needed to handle the project.
Semester 4: Project part 2: Completion of the project and final evaluation to be done in semester 4 through defence of the project.

Semester – I

Code	*Papers*	*L*	*T*	*P*	*Credit*
PGCSE101	Graph Theory & Combinatorics	4	0	0	4
PGCSE102	Distributed Real Time Operating Systems	3	0	3	4
PGCSE103	Processor Architecture & Organisation	3	0	3	4
PGCSE104A PGCSE104B	A: Advanced Algorithms B: Hardware Description Language & CAD Tools	3 3	0 0	3 3	4 4
Seminar on current literature & critical review of research publications. [Credit 2] PGCSE191					

Credit 18

Semester – II

Code	*Papers*	*L*	*T*	*P*	*Credit*
PGCSE201	Advanced Computer Networks	3	0	3	4
PGCSE202	Advanced Computer Architecture	3	0	3	4
PGCSE203A PGCSE203B	A: Advabced Database Management B: Advanced Engineering Mathematics	3 3	0 0	3 3	4 4
PGCSE204A PGCSE204B	A: Principles of Language Translation B: VLSI Designs	3 3	0 0	3 3	4 4
Seminar on Project (Project Proposal Presentation) [Credit 2] PGCSE291					

Credit 18

Semester – III:

Code	*Proposed*
PGECSE301	Elective – I [L-4, credit 4]
PGECSE302	Elective II [L-4, credit 4]
Project – Part I [Credit 10] PGPCSE391	

Credit 18

Two electives to be chosen from any one of the papers offered:

Elective Papers:

Any one from the following subjects for both General (A) and Embedded Technology (B) courses.

PGCSE301A: *Image Processing*,
PGCSE301B: *Soft Computing,*
PGCSE301C: Neural Network & Neuro Fuzzy Computing,
PGCSE301D: Pattern Recognition & Machine Learning,
PGCSE301E: Mobile Computing,
PGCSE301F: *Advanced Search & Optimisation Techniques,*
PGCSE301G: Digital Signal Processing,
PGCSE301H: Programmable Hardware & Reconfigurable Computing,
PGCSE301I: Mobile Computing, Network Security.

PGCSE302A: *Image Processing*,
PGCSE302B: *Soft Computing,*
PGCSE302C: Neural Network & Neuro Fuzzy Computing,
PGCSE302D: Pattern Recognition & Machine Learning,
PGCSE302E: Mobile Computing,
PGCSE302F: Advanced Search & Optimisation Techniques,
PGCSE302G: Digital Signal Processing,
PGCSE302H: Programmable Hardware & Reconfigurable Computing,
PGCSE302I: Mobile Computing, Network Security.

Semester – IV

Project – Part II Project Completion means the candidate is expected to make some original contribution. PGPCSE 491[credit 18]

Credit 18