

Academic Advisory Committee Meeting
IIIT D&M, Kanchipuram

3rd May 2007

Budget

Proposal based on 3 B Tech Streams

Relevant to D & M
In Mechanical/Electrical/CS

2 M Tech Streams

Automotive
Medical Design Technology

BUILDING & INFRASTRUCTURE
ACADEMIC

	Capacity	Size Sq. ft	Size Sq. m	No	Total Size Sq. m	Cost Lakhs
1. Class Room	60	1200	111	40	4459	659
	200	4800	446	4	1784	268
2. Auditorium	400	27000	2508	1	2508	377
3. Seminar Halls	100	2000	186	2	372	56
4. Library	200	4800	446	1	446	67
5. Computer Centre		1500	1	1500	225	
6. Workshop		1000	1	1000	150	
7. Activity Centre/Cafeteria		1500	1	1500	225	
8. Laboratory Complex	3600	334	30	10034	1506	
9. Administrative Building	30000	2787	1	2787	419	
Sub Total		10819			3962	
Design Studio		5000			750	
Total A		15819			4712	

BUILDING & INFRASTRUCTURE
RESIDENTIAL REQUIREMENTS

	Unit	Size Sq. ft	Size Sq. m	No	Total Size Sq. m	Total Cost Lakhs
Student Hostel	1	225	21	1500	31355	4704
Faculty Houses	1	1200	111	100	11148	1673
Transit Students	1	700	65	50	3252	488
Guest House	1	400	37	50	1858	279
Community Centre	1	1500	1	1500	225	
Commercial Centre	1	3000	1	3000	450	
Sub Total						7819

BUILDING & INFRASTRUCTURE Contd.,

Internal Roads and Paths/Storm water drains, Landscaping & Horticulture Operations	200
Electric Supply, Gen-sets and External Lighting	200
Water Supply (Water tank and distribution), treatment and sewerage system	200
Boundary Wall	100
Sub Total	700

ASSESSMENT OF EQUIPMENT

	Rs. in Lakhs
Physical Sciences Lab	150
Analysis Lab	100
S.M. Lab	200
Electrical Lab	150
M/c Tool Lab	500
Controls Lab	100
Product Design & Testing Lab	300
Microprocessor Lab	100
Mechatronics Lab	200
CAD Lab	100
Metrology Lab	150
Design Studio	300
Automobile lab	200
Medical Design lab	200
Classroom Furniture's	60
Library Furniture and book (initially)	100
Audio Visual aids	40
Accessories, Auxiliary equipment	100
Networking & Infrastructure	50
Miscellaneous	50
Total	3150

Staff Requirement

	2007		2008		2009	
	Number	Pay/Yr.	Number	Pay/Yr.	Number	Pay/Yr.
Faculty	10	50	30	160	50	300
Research Technical Staff	5	20	10	30	20	60
Support Officers	15	30	30	70	50	120
Sub Total		100		260		480

Recurring Cost Year wise

	2007-08	2008-09	2009-10	Rs in lakhs
Pays and Allowances	100	260	480	840
Outsourcing Expenses	40	80	120	240
Real Estate Maintenance (5% of Capital)	0	175	450	625
Equip maintenance (10%)	0	50	230	280
Water, Elect, Phone Etc.,	10	30	50	90
Total	150	595	1330	2075

Capital Investments

	2007-08	2008-09	2009-10	Rs in Lakhs
Building and Infrastructure	3500	5500	4231	13231
Equipment	500	1800	850	3150
	4000	7300	5081	16381

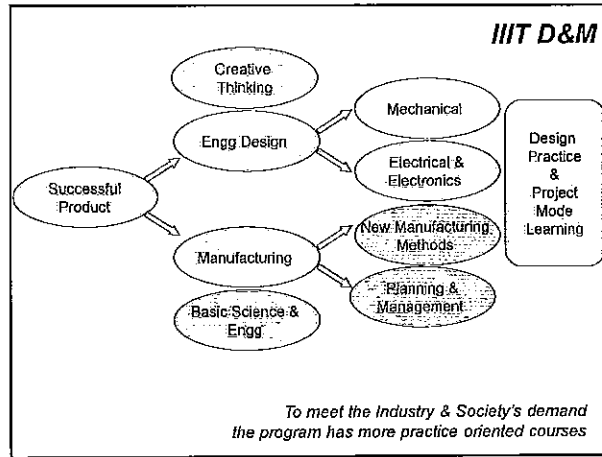
Future Activities

- ❖ Finalizing the Academic Curriculum
- ❖ Advertisement and Student admission
- ❖ Budget
- ❖ Infrastructure Planning

IIIT D&M Jabaipur	UG	(i) Computer Science & Engineering (ii) Electrical Engineering (iii) Mechanical Engineering	- 20 No. - 20 No. - 20 No.
	From July 2006, PG with specialization in creative design or manufacturing.		
MINISTRY'S REPORT		<i>B Tech in Mech Engg, B Tech in Electrical Engg or Computer Science & Engg M Tech in Design Engineering or Manufacturing Research Programs</i>	
IIIT D&M Kanchipuram	B Tech in Design & Manufacturing 2007 in take 30		

IIIT D&M Kanchipuram – Proposed

B Tech in Design & Manufacturing 2007 in take 30 2008 in take 60 B.Tech D&M - 30 Dual Degree – 30	
Dual Degree –	Automotive D&M – 10 Engg. Design – 10 Medical Design Tech – 10
M S / Ph D	2008 in take 5 to 10 (2 Per Faculty)



Curriculum for B.TECH (Design and Manufacture)					
Semester 1					
Course No	Course Name	L	T	P	Cat
MA 101	Elements of Calculus	3	0	0	SMA
PH 101	Physics I	3	0	0	SPH
CY 101	Structure and Reactivity	3	0	0	SCY
ED 110	Functional and Conceptual Design	3	0	0	PMT
CS 110	Computational Engineering	3	0	0	BET
ME 111	Introduction to Mech. Engineering	2	0	0	PMT
PH 103	Physics Lab I	0	0	3	SPH
CY 103	Chemistry Laboratory	0	0	3	SCY
WS 101	Workshop I	0	0	3	BES
Total		23			
Semester 2					
Course No	Course Name	L	T	P	Cat
MA 102	Vector Matrices and Diff. Equ	3	0	0	SMA
PH 102	Physics II	3	0	0	SPH
AM 110	Engineering Mechanics	3	0	0	BET
ME 110	Thermodynamics	3	0	0	BET
CY 102	Chemistry II	3	0	0	SCY
EE 110	Basic Electrical Engineering	3	0	0	PMT
PH 104	Physics Lab II	0	0	3	SPH
WS 102	Workshop II	0	0	3	BES
ME 112	Engineering Drawing	1	0	3	BES
Total		24			

Semester 3					
Course No	Course Name	L	T	P	Cat
MA 215	Linear Algebra and Optimization	3	0	0	SMA
AM 220	Strength of Materials	3	0	0	PMT
MM 103	Material Science and Technology	3	0	0	BET
ED 205	Analog and Digital Circuits	3	0	0	PMT
	Communication Systems	3	0	0	PMT
ID 120	Ecology and Environment	2	0	0	BET
AM 254	Applied Mechanics Lab	1	0	3	PML
ME 205	Machine Drawing Practice	1	0	3	PML
Total		22			
Semester 4					
Course No	Course Name	L	T	P	Cat
MS 110	Tech, Invention and Innovation	2	0	0	HSS
HS 405	Tech Comm and Report Writing	3	0	0	HSS
ED 203	Fluid Mech and Heat Transfer	3	0	0	PMT
	Mechanical Design Concepts	3	0	0	PMT
ME 228	Manufacturing Technology	3	0	0	PMT
AM 271	Dynamics of Machinery	3	0	0	PMT
ED 208	Product Design Lab	0	0	6	PML
EN 210	Electrical Sciences Lab	1	0	3	PML
Total		21			

Semester 5					
Course No	Course Name	L	T	P	Cat
	Machine Elements Design	3	0	0	PMT
ME 322	Control Systems	3	0	0	PMT
ED 309	Introduction to Systems Design	3	0	0	PMT
HS 434	Industrial Economics	3	0	0	HSS
ED 209	Geometric Modelling and CAD	3	0	0	PMT
ME 319	Machining and Metrology	3	0	0	PMT
ED 313	Controls Lab	1	0	3	PML
ME 329	Machine Tool and Metrology Lab	1	0	3	PML
ED 208	Microprocessor Lab	0	0	3	PML
Total		24			
Semester 6					
Course No	Course Name	L	T	P	Cat
ED 202	Appl. of Microprocessors and Micro Controllers	3	0	0	PMT
	Management Concepts & Tech	3	0	0	HSS
ME 740	Mechatronics Systems	3	0	0	PMT
ME 447	Automated Manufacturing	3	0	0	PMT
	Department Elective I	3	0	0	PMT
	Minor Elective I	3	0	0	MNS
	Advanced Manufacturing Lab	1	0	3	PML
ME 423	Design Group Practice	1	0	6	PML
ME 350	Industrial Training (Summer)	0	0	0	PIT
Total		25			

Semester 7					
Course No	Course Name	L	T	P	Cat
	Ind Robotics & AI	3	0	0	PMT
MS 567	Industrial Engineering	3	0	0	PMT
HS 305	Professional Ethics	2	0	0	HPF
	Entre & Technology Dev	3	0	0	HSS
	Department Elective II	3	0	0	PMT
	Minor Elective II	3	0	0	MNS
IL 402	Industrial Lecture	0	0	3	PIL
	Design Project	0	0	6	PMP
Total		21			
Semester 8					
Course No	Course Name	L	T	P	Cat
	Department Elective III	3	0	0	PMT
	Department Elective IV	3	0	0	PMT
	Major Project	0	0	24	PMP
Total		14			

Departmental Electives (4)

Automotive

1. Introd to Auto Engg
2. Auto structures
3. Engines and Drive Systems
4. Auto Electronics

Product Design & Manufacturing

1. Design for Manufacture & Envm
2. Ergonomics and Aesthetics
3. Design with Adv Engg. Materials
4. Green Manufacturing

Management

1. Financial Mgt.
2. Marketing Mgt.
3. Techno Economic Decision Making
4. Consumer Psychology

Minor Electives (2)

Bio Engineering

1. Introduction to Bio Mechanics
2. Bio Medical Instrumentation

Safety Engineering

1. Industrial Safety
2. Consumer safety

New Streams will be introduced based on faculty speciality

Category wise Credit Requirements

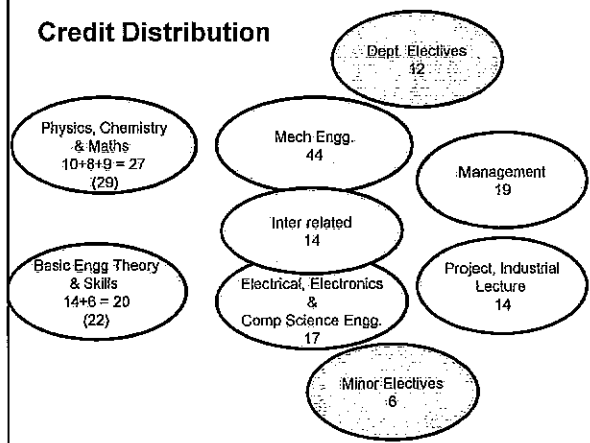
SPY	SPC	SMA	BET	BES
10	8	9	14	6

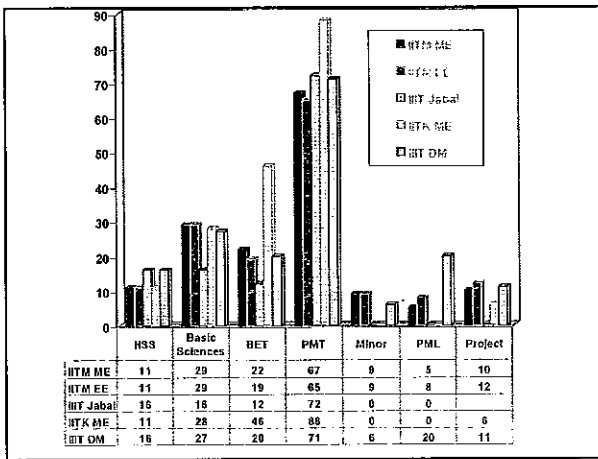
PMT	PML	PIT	PIL	PMP	HSS	MNS	Total
71	20	2	1	11	16	6	174

Semester wise Credit Requirements

Sem	I	II	III	IV	V	VI	VII	VIII	Total
	23	24	22	21	24	25	21	14	174

Credit Distribution





Immediate activities

- ❖ Admission Procedures
- ❖ Brochure Preparation
- ❖ Infrastructure Planning
- ❖ Faculty Requirement