AIT / Dean 030 /10-11

Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY BANGALORE - 36

Date: 23.08.2010

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Minutes of the 1st Academic Council meeting held on 21st August 2010 at 10.30 am in the Board room of Dr. AIT

Members Present

Nð	Constitution	Nature	Name
1	The Principal of the	Chairperson	
	College	CURTINETAOU	Dr P.Martin Jebaraj
2	All the Heads of	Members	Dr C.Nanjunda Swamy
	Department in the		Dr B.M.Nandeeshalah
	College	· ·	Dr B.V.Sumangala
		· · ·	Dr Moenakshi
			Dr Shiyakumar
			Prof Siddaraju
(51)			Dr Rajendra,
			Prof Prabha
			Prof Manjunath.A.P.
	· · ·		Dr K.L.Savitramma
1 ·		, t y	Dr V.Bheemaraju
' . ·			
3	Four teachers of the	Members	Dr. Sooryanarayana Rao
	college representing	INCINCIA	1)Dr Manjunath Hegde
	different levels of		2)Dr T.Sreenivasulu Reddy
. • •	teaching staff by rotation		3)Prof O.Devaraju
. · .	on the basis of seniority		4)Smt Leona Qirl
	of service in the college,	and the second of	Vjayalastoni Patil
	to be nominated by the		
1	Principal	l	
4			
·.	Not less than four experts	Members	1) Dr S. Seetharamu
	from outside the college	2 1 da e 1 e	Additional Director
	representing such areas	t sisi	CPRI, Bangalore
. (6	as industry, R and D		2) Dr G.R.Nagabhushana
	labs, Technical Education,	· · · · · · · · · · · · · · · · · · ·	Former Chairman
	Loucation,	A Contraction of the second	HVE, IISc, Bangalore
<u>}</u>	da d	444 m ²	3) Mr Rajendra Prasad
1.		and the second	Vice President
			Electro Systems Associates Pvt
		· · · · · · · ·	Ltd, Bangalore
	씨		4) Mr. B.N. Satyesh
1			Senior Vice-president
			Tejas Network Ltd
			Bangalore
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5	Three nominees of the	Members	1.Dr T.V.Ooyindaraju
	University,	-	Principal
	<i>§</i>	-	Shirdi Sai Engg College
•			2.Dr H.R. Yashayanth
			Principal, SEACE
			Bangalore
			3.Dr V.R.Manjunath
		• •	Principal
			Sapthagiri College of Engg
			Bangalore
6	A faculty member,	Member	Dean (Academic)
	nominated by the	Secretary	Dr B.Y.Sumangala
	Principal		

Members Absent

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1. Dr. O.R. Nagabhushana

2. Dr. Yeshovanth

Principal welcomed all the members of the committee and they were introduced. He explained about the constitution of the committee, tenure of the committee and the duties and responsibilities. He also explained about the courses of the institution going for autonomy and briefed about the various procedures followed to make the institution prepare for the implementation of academic autonomy.

Principal explained the various issues related to academic structure of autonomy at Dr. AIT with reference to the guidelines by VTU. The details of the deliberation made by experts are as follows:-

Agenda 1 :

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Recommendations of guidelines to all UG programmes - Autonomy structure, a) Credit system, b) Grading system, c) Eligibility criteria etc.

The following resolutions were made by the committee and the regulations are recommended and was proposed to place in GOVERNING BODY for approval.

a. Credit System

The committee recommended the following credits structure based on VTU guidelines

BE Degree Programme - Entry in I year

- 200 Credits

BE Degree Programme - Entry in II year

- Lateral Entry

150 Credits (with bridge course – Mathematics)

b. Academic Calendar

The major events with the corresponding period for execution are:-

Main Semester (Odd)	: 19 Weeks
Recess	: 2 Weeks
Main Semester (Even)	: 19 Weeks
Recess	%: 2 Weeks
Supplementary Semest	er :8 Weeks
Recess	: 2 Weeks

Total : 52 Weeks.

Make-up examination after the Semester End Examinations (SEE) as per notification. c. Evaluation Methodology

The evaluation consists of two components

- 1. Continuous Internal Evaluation CIE for 50 Marks
- 2. End Semester Evaluation SEE for 50 Marks It is essential to obtain

minimum requirement is 40 % in both CIE and SEE to qualify for appearing for examination and to get pass grade in a subject respectively.

d. Grading Methodology

The absolute grading system is adopted in our case. The various grades are generated based on the examination rules out of 100 and is shown in table. These grades are then converted to grade points and the SEPA is determined.

Level	Out- standing	Excellent	Very Good	. Good	Avenage	Poor	Fail
Grade	, S	A	B	C	D	, E	F
Grade Points	10	09	08	07	05	04	00
Score (Marks) Range (%)	.90-100	75-89	60-74	50-59	45-49	40-44	<40

Grades

- W – Withdrawal of any course

- I - Not writing SEE for a genuine reason

- X – Scoring >80% in CIE but getting F (fail) grade in SEE

e. Eligibility Criteria

A student can carry 4 subjects at the end of any even semester which includes

- Failed subjects and

- 'Not Eligible' subjects to write SEE due to shortage of marks in CIE(< 20 marks) or shortage of attendance (< 85%)

Agenda 2. Recommendation of BOS committees for various Departments

The Board of Studies for all the 13 Departments were formed and placed in GB for approval

Agenda 3 : Recommendations for common BOE for I year It was proposed to have a common Board of Examiners for I year.

Agenda 4 : Recommendations for all rules and regulations pertaining to Examination After fully going through the document the examination rules and regulations are recommended by Academic Council

Agenda 5 : Any Other subject

Dr Govindaraju suggested to increase the minimum requirement for CIE for practicals.

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DEAN (ACADEMIC)

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Principal Control Dr. Ambedkar Institute of Technology Bangalore-560 056

Dr. Ambedkar Institute of Technology

Department of Industrial Engineering and Management

The Enclosed Document is Verified and Approved.

HOD

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Professor & HOD Dept. of Industrial Engineering & Management Dr. Ambedkar Institute of Techoshoay Near Jnanabharathi Campus BDA Outer Ring Road Mallathahalli, Bangalore-560 056

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	Scheme	of Teaching	and Examination for I Semester B.E.	, (Common to	all	B.E	.	Pr	ogran	nmes) Ac	ademic	Year:20	021-22	
Che	emistry Cy	cle: I Semes	ster											
SI.	Course	Course	Course Title	Teaching	Te	eac	hi	ng	Hrs/		Examin	ation		C
No.	Category	Code		Department			Ne	el	k					di
					Ľ	T F	2	S	Total	Duration	CIE	SEE	Total]
										(Hrs)	Marks	Marks	Marks	
1	BS	21MAT101	Calculus and Differential Equations	Mathematics	3	2	0	0	5	3	50	50	100	6
2	BS	21CHT102	Engineering Chemistry	Chemistry	3	0	0	0	3	3	50	50	100	
3	ES	21CST103	Problem solving through Programming	Computer Science	2	2	0	0	4	3	50	50	100	;
4	ES	21ECT104	Basic Electronics and Communication Engineering	Electronics	2	2	0	0	4	3	50	50	100	1
5	ES	21MET105	Elements of Mechanical Engineering	Mechanical	2	0	2	0	4	3	50	50	100	
6	BS	21CHL106	Engineering Chemistry Laboratory	Chemistry	0	0	2	0	2	3	50	50	100	Γ
7	ES	21CSL107	Computer Programming Laboratory	Computer Science	0	0	2	0	2	3	50	50	100	
8	HS	21HST108	Communicative English	Humanities	1	0 1	*	0	2	2	50	50	100	Ŀ
9	AE	21CVT109	Rural Development Engineering	Civil	1	0 1	*	0	2	2	50	50	100	ŀ
10	MC	21HSN110	Career Development skill-l	Humanities	1	0 1	*	0	2		50		PP/NP	
			•			Ť	ota	al	30		500	450	900	2

L: Lecture, T:Titorial, P:Practical/drawing, S:Self study, CIE: Continuous Internal Evaluation, SEE: Semester End Examination

SI. No.	Course Category	Course	Course Title											
	Joacogoly	Code	Course mile	Teaching Department	T	ea		ing eel	Hrs/ k		Examin	ation		0
					L	Т	Ρ	S	Total	Duration (Hrs)	CIE Marks	SEE Marks	Total Marks	
1	BS	21MAT201	Advanced Calculus and Numerical Methods	Mathematics	3	2	0	0	5	3	50	50	100	Ť
2	BS	21CHT202	Engineering Chemistry	Chemistry	3	0	0	0	3	3	50	50	100	Ť
3	ES		Problem solving through Programming	Computer Science	2	2	0	0	4	3	50	50	100	ſ
4	ES	21ECT204	Basic Electronics and Communication Engineering	Electronics	2	2	0	0	4	3	50	50	100	ſ
5	ES	21MET205	Elements of Mechanical Engineering	Mechanical	2	0	2	0	4	3	50	50	100	Ť
6	BS	21CHL206	Engineering Chemistry Laboratory	Chemistry	0	0	2	0	2	3	50	50	100	Γ
7	ES	21CSL207	Computer Programming Laboratory	Computer Science	0	0	2	0	2	3	50	50	100	ĺ
8	HS	21HST208	Professional writing skills in English		1	0	1*	0	2	2	50	50	100	Γ
9	AE	21CVT209	Rural Development Engineering	Civil	1	0	1*	0	2	2	50	50	100	Ť
10	МС	21HSN210	Career Development skill-II	Humanities	1	0	1*	0	2		50		PP/NP	T
7 8 9	BS ES HS AE	21CHL206 21CSL207 21HST208 21CVT209	Engineering Chemistry Laboratory Computer Programming Laboratory Professional writing skills in English Rural Development Engineering	Chemistry Computer Science Civil	0 0 1	0 0 0 0	2 2 1* 1*	0 0 0 0	2 2 2 2 2	3 3 2 2	50 50 50 50 50	50 50 50 50		100 100 100 100 100

L: Lecture, T:Titorial, P:Practical/drawing, S:Self study, CIE: Continuous Internal Evaluation, SEE: Semester End Examination

					Tea	ching H /Week	Hours		Exam	ination		
SI. No		ourse and urse Code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	Т	Р	Du	_			
1	BC	18MA31	Transforms and Boundary Value Problems	Mathematics	2	2		03	50	50	100	3
2	PC	18IM31	Mechanical Measurements and Metrology		3	0		03	50	50	100	3
3	PC	18IM32	Material Science and Metallurgy		3	0		03	50	50	100	3
4	PC	18IM33	Thermal and Fluids Engineering		3	2		03	50	50	100	4
5	PC	18IM34	Manufacturing Technology		3	0		03	50	50	100	3
6	PC	18IM35	Mechanics of Materials		3	0		03	50	50	100	3
7	PC	18IM36	PYTHON Programming		2	0		02	50	50	100	2
8	PC	18IML37	PYTHON Programming Laboratory				2	03	50	50	100	1
9	PC	18IML39	Manufacturing Technology Laboratory				2	03	50	50	100	1
10	HS	18HS31/32	Constitution of India Professional Ethics and Human Rights/ / Env. Studies	HS/ CV	1			02	50	50	100	1
11	MC	18HS33	Soft skills (MC)	Humanities	04	-		03	50	-	50	0
			TOTAL		19	04	06	34	550	550	1100	24
(Course	e prescribe	ed to lateral entry Diploma	holders adn	nitted	to III	semest	er of	Engin	leerin	g progi	rams
	MC	18MAD31	Basic Engg. Mathematics - I	Mathematics	02	01		03	50		50	0

						hing H /Week			Exan	ination		
SI. No	-	ourse and ourse code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	Т	Р	Du				
1	BC	18MA41	Numerical Methods & Applied Statistics	Mathematics	2	2		03	50	50	100	3
2	PC	18IM41	Work-study and Ergonomics		4	0		03	50	50	100	4
3	PC	18IM42	Theory of Machines		2	2		03	50	50	100	3
4	PC	18IM43	Engineering Economy		2	2		03	50	50	100	3
5	PC	18IM44	Statistics for Engineers		4	0		03	50	50	100	4
6	PC	18IM45	CAMD		3	0		03	50	50	100	3
7	PC	18IML46	Work-study and Ergonomics Laboratory				2	03	50	50	100	1
8	PC	18IML47	Mechanical Measurements and Metrology Laboratory				2	03	50	50	100	1
9	PC	18IML48	Material Testing Laboratory				2	03	50	50	100	1
10	HS	18HS41/42	Constitution of India Professional Ethics and Human Rights/ Env. Studies	HS/ CV	1			02	50	50	100	1
11	MC	18HS43	Employability skills (MC)	Humanities	04	-		03	50	-	50	0
	I		L	TOTAL	19	06	04	26	450	450	900	24
	Course prescribed to lateral entry Diploma holders		olders admitted	l to III	seme	ester of	Engin	eering	progr	ams	1	
12	MC	18MAD41	Basic Engg. Mathematics - II	Mathematics	02	01		03	50		50	0

		Teaching	Hours	/Week		Exar	nination		
Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
		L	Т	Р	Q				
M&E / IPR (title as per BOS decision)	HS	3	-		03	50	50	100	3
Operations Research		3	2		03	50	50	100	4
Computer Integrated Manufacturing		2	2		03	50	50	100	3
Design of Machine Elements		3	2		03	50	50	100	4
Quality Assurance and Reliability		2	2		03	50	50	100	3
Professional Elective -1		3			03	50	50	100	3
Open Elective- A		3			03	50	50	100	3
Quality Engineering Laboratory				2	03	50	50	100	1
Computer Integrated Manufacturing Laboratory				2	03	50	50	100	1
]	TOTAL	18	10	4	24	400	400	800	25
PC: P		TOTAL rofessional Core, MC: Ma		rofessional Core, MC: Mandatory Course	rofessional Core, MC: Mandatory Course,				

Course code	Professional Electives - 1
18IM551	Advanced Machining Processes
18IM552	Marketing Management
18IM553	Rapid Prototyping
18IM554	Enterprise Resource Planning and
	e- commerce
18IM555	Data Warehousing and Mining

Course code	Open Elective -A
18IME01	Operations Research

					Tea	ching Ho /Week	ours		Exami	nation		
Sl. No		ourse and urse code	Course Title	Teaching Department	Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	Т	Р		0		Γ	
1	HS	18HS61/6 2	M&E/IPR	HS	3			03	50	50	100	3
2	PC	18IM61	Materials Management		3			03	50	50	100	3
3	PC	18IM62	Facilities Planning and Design		2	2		04	50	50	100	3
4	PC	18IM63	Lean Manufacturing		2	2		04	50	50	100	3
5	PC	18IM64	Simulation Modelling and Analysis		2	2		04	50	50	100	3
6	PE	18IM65X	Professional Elective - 2		3			03	50	50	100	3
7	OE	18IME02	Open Elective -B		3			03	50	50	100	3
8	PC	18IML66	Simulation Laboratory				2	03	50	50	100	1
9	MP	18IMP67	Mini-project		2			03	50	50	100	2
10	INT	18IMI68	Industry Internship	interve	carried ening vac II semest	cations of						
	•		TC	DTAL	18	06	02	30	400	400	800	24

Note: PC: Professional core, PE: Professional Elective, OE: Open Elective, MP: Mini-Project, INT: Internship.

Electives						
Course	Professional Electives - 2					
code						
18IM651	Project Management					
18IM652	Maintenance and Safety Engineering					
18IM653	Composite Materials					
18IM654	Organizational Behaviour					
18IM655	Management Information System					

Open Elective - B
Quality Assurance and Reliability

SI. No			Course Title	Teaching Department	Teaching Hours /Week			Examination				
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	Т	Р					
1	MC	18HS71/ 72	CMEP / OSHA	IM/ CV	2			03	50	50	100	2
2	PC	18IM71	Operations Management		2	2		03	50	50	100	4
3	PE	18IM72	Supply Chain Management		2	2		03	50	50	100	4
4	PE	18IM73 X	Professional Elective -3		3			03	50	50	100	3
5	PE	18IM74 X	Professional Elective -4		3			03	50	50	100	3
6	OE	18IM75 X	Open Elective - C		3			03	50	50	100	3
7	PC	18IML76	Statistics Laboratory				2	03	50	50	100	1
8	PC	18IML77	ERP & OR Laboratory				2	03	50	50	100	1
9	Proj ect	18IMP78	Project Work Phase - 1				2	03	50	50	100	2
10	INT		Internship	VI se exam be ca the in	meste inatio arried terve II and	ns, it h out du ning va	as to					
			TO	TAL	15	4	6	27	450	450	900	23
Mar	dator	y Course	al Core, PE: Professions students admitted to				•				•	

Internship: All the students admitted to III year of BE have to undergo mandatory internship of 4 weeks during the vacations of VI and VII semesters and /or VII and VIII semesters. A SEE examination will be conducted during VIII semester and prescribed credits shall be added to VIII semester. Internship is considered as a head of passing and is considered for the award of degree. Those, who do not take-up/complete the internship will be declared as failed and have to complete during subsequent SEE examination after satisfy the internship requirements.

Electives								
Course	Professional Electives - 3	Course	Professional Electives - 4					
code		code						
18IM731	Project Management	18IM741	Design of Experiments					
18IM732	Nanotechnology	18IM742	Strategic Management					
18IM733	Human Resource Management	18IM743	Product Design and Manufacturing					
18IM734	Database Management System	18IM744	Total Quality Management					
18IM735	Technology Management	18IM745	Industrial Relations and Labour Welfare					
CMEP: Cost Management of Engineering Projects, OSHA: Occupational Safety and								
Health Administration								

Course code	Open Elective -C
18IM751	Human Resource Management

VIII SEMESTER												
SI. No	Course and Course code		Course Title	Teaching Department	Teaching Hours /Week			Examination				
					Theory Lecture	Tutorial	Practical/ Drawing	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
					L	Т	Р	Du	-			
1	MC	18HS81/82	CMEP / OSHA	IM/CV	2			03	50	50	100	2
2	Project	18IMP82	Project Work Phase - 2				2	03	50	50	100	10
3	Seminar	18IMS83	Technical Seminar				2	03	50	50	100	1
4	INT	18IMI84	Internship	(Compl interver VI and and /or semeste	vacation emesto	ons of ers	03	50	50	100	2	
	TOTAL 2						4	12	350	350	700	15

Note: PC: Professional Core, PE: Professional Elective, OE: Open Elective, INT: Internship, MC: Mandatory Course

Internship: Those, who have not pursued /completed the internship, will be declared as failed and have to complete during subsequent SEE examination after they satisfy the internship requirements.

CMEP: Cost Management of Engineering Projects OSHA: Occupational Safety and Health Administration