VEERMATA JIJABAI TECHNOLOGICAL INSTITUTE **(VJTI)**
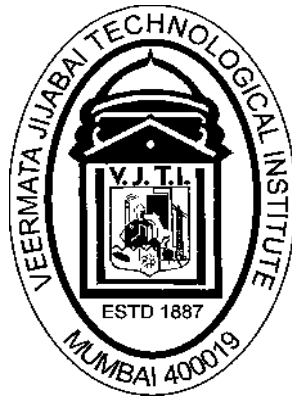MATUNGA, MUMBAI 400 019

MINUTES OF

Third Meeting of the

Academic Council

Held on

Thursday, July 31, 2014 at 2.30 pm

At

DEP I Hall,

VJTI, Matunga, Mumbai 400 019

Veermata Jijabai Technological Institute
Minutes of third Meeting of Academic Council
Thursday, July 31, 2014 at 2.30 pm

Third Meeting of Academic Council was held on Thursday, July 31, 2014 at 2.30 pm at DEP I Hall. Following members and invitees were present:
(Names to be checked)

1.	Dr. O G Kakde, Director &Chairman
2.	Dr. Shubha Pandit, Nominee of University of Mumbai
3.	Dr. M S Panse, Head, Electrical Engg. Dept.
4.	Dr. B B Meshram, Head, Computer & IT Dept.
5.	Dr. A N Bambole, Head, Structural Engg. Dept.
6.	Dr. S Y Mhaske, Head, Civil Engg. Dept.
7.	Dr. V M Phalle, Head, Mechanical Engg. Dept.
8.	Dr. B E Narkhede, Head, Production Engg. Dept.
9.	Pf. L C Nene, Head MCA
10.	Dr. D S Wavhal, Head Physics Dept.
11.	Dr. A D Padhye, Head, Chemistry &I/C Head, Mathematics Dept.
12.	Pf. U. Nair, Head, Humanities Dept.
13.	Dr. H A Mangalvedekar, Professor, Electrical Engineering Dept.
14.	Pf. P M Chavan, Asso. Professor, Computer Engg.& Information Technology Dept.
15.	Dr. A S Wayal, Controller of Examinations
16.	Dr. R D Daruwala, Dean (Academic Programs)& Member Secretary

Following members were given leave of absence:

1.	Dr. B Ravi, External Expert member
2.	Dr. D N Badodkar, External Expert member
3.	Dr. A V Topkar, External Expert member
4.	Dr. S. Biswas, External Expert member
5.	Dr. P U Gharpure, External Expert invitee

Item no. 1
The Chairman Academic Council welcomed the members. The minutes of second meeting of Academic Council meeting held on December 4, 2013 were confirmed.

Item no. 2
Proposal for implementation of revised scheme of instruction and evaluation to be implemented from academic year 2014 -15 leading to a revised curriculum implementation for first year of four year B.Tech. programs at VJTI

Draft Scheme of instruction and evaluation for the first year B.Tech. Programs (Common to all branches of Engineering), proposed to be implemented from AY 2014 – 15 was presented. The model AICTE curriculum was discussed. The Academic Council approved the scheme of instruction and evaluation. Detailed course content for all courses at first year of B.Tech. programs were presented. In view of requirements of National Board of Accreditation (NBA), each course had a list of course outcomes which were discussed along with course contents. The approved course contents including course outcomes are available as annexure I. The scheme of teaching and evaluation for first year of all four year B.Tech. programs is as shown: Chairman Academic Council was authorized to approve minor alterations in course contents as well as changes in course outcomes.

Scheme of Teaching and Evaluation F Y B Tech (Semester I)
(Group I: Mechanical Engineering, Electrical Engineering, Civil Engineering, Production Engineering and Textile Technology)

SEMESTER I								
Scheme of Instruction				Scheme of Evaluation				
S. No	Course code	Course Title	L-T-P (Hours / week)	Credits	TA %	IST %	ESE %	ESE hours
1.	PH1011T	Applied Physics I	3-0-0=3	3	10	30	60	3
	PH1011P	Applied Physics I laboratory	0-0-1.5=1.5	0.75	100 % CIE			
2.	CH1011T	Applied Chemistry I	3-0-0=3	3	10	30	60	3
	CH1011P	Applied Chemistry I Lab	0-0-1.5=1.5	0.75	100 % CIE			
3.	MA1011S	Mathematics for Engineers I	3-1-0=4	4	10	30	60	3
4.	CO1001T	Computer programming and problem solving	3-1-0=4	4	10	30	60	3
	CO1001P	Computer programming and problem solving Lab	0-0-2=2	1	100 % CIE			
5.	SA1001T	Engineering Mechanics	3-1-0=4	4	10	30	60	3
	SA1001P	Engineering Mechanics Lab	0-0-2=2	1	100 % CIE			
6.	CE1001S	Elements of Civil Engg	2-0-0=2	2	10	30	60	3
7.	ME1001L	Workshop Practice	0-0-3	1.5	100 % CIE			
		Total	30	25				

Abbreviations: **L**: Lectures, **T**: Tutorial, **P**: Practical, **TA**: Teacher Assessment, **IST**: In Semester Tests, **ESE**: End Semester Written Examination, **CIE**: Continuous In-semester Evaluation

Scheme of Teaching and Evaluation F Y B Tech (Semester II)
(Group I: Mechanical Engineering, Electrical Engineering, Civil Engineering, Production Engineering and Textile Technology)

S. No	Course code	Course Title	L-T-P (Hours / week)	Credits	TA %	IST %	ESE %	ESE hours
		SEMESTER II						
		Scheme of Instruction			Scheme of Evaluation			
1.	PH1021T	Applied Physics II	3-0-0=3	3	10	30	60	3
	PH1021P	Applied Physics II Lab	0-0-1.5=1.5	0.75	100 % CIE			
2.	CH1021T	Applied Chemistry II	3-0-0=3	3	10	30	60	3
	CH1021P	Applied Chemistry II Lab	0-0-1.5=1.5	0.75	100 % CIE			
3.	MA1021S	Mathematics for Engineers II	3-1-0=4	4	10	30	60	3
4.	EE1001T	Basic Electrical Engineering	3-1-0=4	4	10	30	60	3
	EE1001P	Basic Electrical Engineering Lab	0-0-2=2	1	100 % CIE			
5.	ME1002T	Engineering Graphics	3-1-0=4	4	10	30	60	3
	ME1002P	Engineering Graphics Lab	0-0-2=2	1	100 % CIE			
6.	ME1003S	Elements of Mechanical Engg	2-0-0=2	2	10	30	60	3
7.	ME1001L	Workshop Practice	0-0-3	1.5	100 % CIE			
		Total	30	25				

Abbreviations: **L**: Lectures, **T**: Tutorial, **P**: Practical, **TA**: Teacher Assessment, **IST**: In Semester Tests, **ESE**: End Semester Written Examination, **CIE**: Continuous In-semester Evaluation

Scheme of Teaching and Evaluation F Y B Tech (Semester I)
(Group II: Computer Engineering, Information Technology, Electronics Engineering and Electronics & Telecommunication Engineering)

SEMESTER I Table-2								
Scheme of Instruction					Scheme of Evaluation			
S. No	Course code	Course Title	L-T-P (Hours / week)	Credits	TA %	IST %	ESE %	ESE hours
1.	PH1011T	Applied Physics I	3-0-0=3	3	10	30	60	3
	PH1011P	Applied Physics I laboratory	0-0-1.5=1.5	0.75	100 % CIE			
2.	CH1011T	Applied Chemistry I	3-0-0=3	3	10	30	60	3
	CH1011P	Applied Chemistry I Lab	0-0-1.5=1.5	0.75	100 % CIE			
3.	MA1011S	Mathematics for Engineers I	3-1-0=4	4	10	30	60	3
4.	EE1001T	Basic Electrical Engineering	3-1-0=4	4	10	30	60	3
	EE1001P	Basic Electrical Engineering Lab	0-0-2=2	1	100 % CIE			
5.	ME1002T	Engineering Graphics	3-1-0=4	4	10	30	60	3
	ME1002P	Engineering Graphics Lab	0-0-2=2	1	100 % CIE			
6.	ME1003S	Elements of Mechanical Engg	2-0-0=2	2	10	30	60	3
7.	ME1001L	Workshop Practice	0-0-3	1.5	100 % CIE			
		Total	30	25				

Abbreviations: **L**: Lectures, **T**: Tutorial, **P**: Practical, **TA**: Teacher Assessment, **IST**: In Semester Tests, **ESE**: End Semester Written Examination, **CIE**: Continuous In-semester Evaluation

Scheme of Teaching and Evaluation F Y B Tech (Semester II)
(Group II: Computer Engineering, Information Technology, Electronics Engineering and Electronics & Telecommunication Engineering)

S. No	Course code	Course Title	L-T-P (Hours / week)	Credits	TA %	IST %	ESE %	ESE hours
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		SEMESTER II						
	Scheme of Instruction				Scheme of Evaluation			
S. No	Course code	Course Title	L-T-P (Hours / week)	Credits	TA %	IST %	ESE %	ESE hours
1.	PH1021T	Applied Physics II	3-0-0=3	3	10	30	60	3
	PH1021P	Applied Physics II Lab	0-0-1.5=1.5	0.75	100 % CIE			
2.	CH1021T	Applied Chemistry II	3-0-0=3	3	10	30	60	3
	CH1021P	Applied Chemistry II Lab	0-0-1.5=1.5	0.75	100 % CIE			
3.	MA1021S	Mathematics for Engineers II	3-1-0=4	4	10	30	60	3
4.	CO1001T	Computer programming and problem solving	3-1-0=4	4	10	30	60	3
	CO1001P	Computer programming and problem solving Lab	0-0-2=2	1	100 % CIE			
5.	SA1001T	Engineering Mechanics	3-1-0=4	4	10	30	60	3
	SA1001P	Engineering Mechanics Lab	0-0-2=2	1	100 % CIE			
6.	CE1001S	Elements of Civil Engg.	2-0-0=2	2	10	30	60	3
7.	ME1001L	Workshop Practice	0-0-3	1.5	100 % CIE			
		Total	30	25				

Abbreviations: **L**: Lectures, **T**: Tutorial, **P**: Practical, **TA**: Teacher Assessment, **IST**: In Semester Tests, **ESE**: End Semester Written Examination, **CIE**: Continuous In-semester Evaluation

Item no. 3
Proposal for implementation of revised curriculum comprising of scheme of instruction and evaluation and detailed course contents to be implemented from academic year 2014 - 15 for two year M.Tech. programs at VJTI.

The common features of the scheme of instruction and evaluation was discussed. A new Course on Advanced Mathematics titled "Computational Methods" and a new course on "Research Methodology", very much required to carry out high quality projects, to be introduced across all M.Tech. programs, were highlighted. After a thorough discussion, Academic Council approved curriculum comprising of scheme of instruction and evaluation and detailed course contents of all sixteen M.Tech. programs. Scheme of instruction and evaluation and detailed course contents of all sixteen M.Tech. programs are included as annexure II. Chairman Academic Council was authorized to approve minor alterations in course contents as well as changes in course outcomes.

Item no. 4
Proposal for implementation of revised curriculum comprising of scheme of instruction and evaluation to be implemented from academic year 2014 -15 along with detailed course contents for First Year of three year MCA program at VJTI

The scheme of instruction and evaluation for three year MCA program along with the detailed course contents for first year was discussed and approved by Academic Council. Scheme of instruction and evaluation and detailed course contents of first year of the MCA program is included as annexure III. For the MCA program, there is lateral admission of students at second year of the program. These students have not undergone certain prerequisite courses essential for the program. After discussion Academic Council approved the following first year courses as essential courses (to be called bridge courses) for students of lateral entry from AY 2014 – 15.

Sr No	Course Code	Course Name	Credits	Evaluation
1	MC5011N	Discrete Mathematics	P/NP	100 % ESE
2	MC5015N	Computer Organization and Architecture	P/NP	100 % ESE
3	MC5014N	Operating Systems Lab	P/NP	100 % CIE
4	MC5012N	C++ Programming Lab	P/NP	100 % CIE
5	MC5024N	Data and File Structures	P/NP	100 % ESE
6	MC5023N	Web Technology	P/NP	100 % ESE
7	MC5022N	Java Programming Lab	P/NP	CIE
8	MC5025N	Object Oriented Design Lab	P/NP	CIE
9		Data and File Structures Lab *	P/NP	100 % CIE

     ESE: End Semester Written Examination, **CIE**: Continuous In-semester Evaluation
*Only for students admitted in AY 2014-15 in place of MC5025N

After discussion, Academic Council passed the rules for bridge courses as follows:
These courses will be offered in self-study mode with a mentor provided by the MCA department. There will be no credits associated with these courses, but the students have to pass the courses as per scheme of evaluation of the course. Students are required to pass in minimum two theory courses and two lab courses before they are admitted to Semester V. Further, they are required to pass all courses listed above before the declaration of their semester VI results.

Item no. 5
Proposal to change In-semester test evaluation pattern for B.Tech., M.Tech. and MCA programs
Academic Council was informed that currently In-semester test evaluation pattern consists of two class tests of ten marks each of half hour duration and one mid semester test of two hours duration. For the B.Tech. programs, it was proposed to change this pattern to one which has two in-semester tests of one and half hours (ninety minutes), each of 15 marks. Aggregate of both tests will comprise the IST evaluation. For the MCA and M.Tech. programs, it is proposed to change the pattern to one which has two in-semester tests of one hour each of 20 marks. Average of both tests will comprise the IST evaluation. This may be applicable to all years of B.Tech. and MCA programs and first year of M.Tech. programs. The proposal to change the In-semester test evaluation pattern for B.Tech., M.Tech. and MCA programs was approved by Academic Council for implementation from AY 2014 – 2015 onwards.

Item no. 6
Appointment of nominee of Academic council on Board of Studies in Electrical Engineering

The Academic Council had in its first meeting nominated Dr. Madhu Belur, Asso. Professor, Electrical Engineering Department, IIT Bombay as its nominee on Board of Studies (BOS) in Electrical Engineering. Dr. Madhu Belur has declined the nomination. Electrical Engineering Department proposed name of Dr. Vivek Agrawal, Professor, Electrical Engineering Department, IIT Bombay as nominee of Academic Council on BOS in Electrical Engineering, which was approved by Academic Council.

Item no. 7
Any other matter with permission of Chair
   a) **Special Case for internal faculty to complete M.Tech. program in two years**

The Academic Council was informed that some internal faculty admitted to M.Tech. programs in the institute in July 2012 or prior, were supposed to undergo their program in three years, instead of the usual two years. Further, these faculty completed the M.Tech. program in two years along with the regular students, hence it would be unfair to hold their degree. Academic Council resolved that institute faculty admitted in July 2012 or earlier and have completed their M.Tech. coursework and project successfully within two years of their admission will have their M.Tech. degree results declared by controller of examinations as a special case. Any faculty who has completed M.Tech. prior to July 2014 and whose result is declared with approval of Director is also covered in this resolution.

   b) **Appointment of nominee of Academic council on Board of Studies in Mechanical Engineering**

The Academic Council had in its first meeting nominated Mr. N L Soni, Head, Fluid Power & Tribology Section, BARC, as its nominee on Board of Studies (BOS) in Mechanical Engineering. Mr. Soni has declined the nomination. Mechanical Engineering Department proposed name of Dr. S N Sapali, Professor & Head, Mechanical Engineering Department,

College of Engineering Pune as nominee of Academic Council on BOS in Mechanical Engineering, which was approved by Academic Council.

   c) Extension of one year for PhD Students who have completed six years of the PhD program registration

Academic Council was informed that some students of PhD programs have not been able to complete the requirements of the PhD degree within six years of their registration, which is the maximum duration for the PhD program. It was proposed that extension may be given on case to case basis on recommendation of Supervisor. After discussion, Academic Council authorized Director VJTI to approve extension for such students on case to case basis, based on their applying for such extension and recommendation from Supervisor.

The meeting ended with a vote of thanks.

Dean & Member Secretary, Academic Council   Director & Chairman, Academic Council