



**DEPARTMENT OF MECHANICAL ENGINEERING (UG-Accredited by NBA)**  
**VIGNAN'S INSTITUTE OF INFORMATION TECHNOLOGY(Autonomous)**  
(Approved by AICTE and Affiliated to JNTUK) Estd - 2002  
Re-accredited by NAAC with 'A' Grade (CGPA of 3.41/4.00)  
2F and 12B Accredited & International Accreditation by HLACT  
ISO 9001:2015, ISO 14001:2015, OHAS 18001:2007 Certified Institution  
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**Prof.Chandramouli Padmanabhan: BOS External Member**  
**Professor,Dept. of ME, IITM**

Dt.01-06-2019

Minutes of 3<sup>rd</sup>Board of Studies meeting of Department of Mechanical Engineering, Vignan's Institute of Information Technology held on 01-06-2019.

Time: 9.30 a.m. onwards.

Venue: Board Room, 4th Floor, Main Block, VIIT

#### **AGENDA**

1. To approve the minor modifications in Course structure/Syllabi of B. Tech. VR17 regulation (for the admitted batches from 2017).
2. To approve the syllabi of third year B. Tech. courses of VR17 regulation.
3. To approve I year B. Tech. courses VR19 (for the admitted batches from 2019) taught by Mechanical Engineering Department.
4. Any other related matter with the permission of the Chair.

#### **Suggestions for VR19:**

1. As per VR19, to formulate 160 credit system. It is better to have 12 core subjects, 12 labs and rest are department and open electives. The credit system is as follows:

	L	T	P	C
Theory and lab will be clubbed together:	3	1*	2	4

11 labs/ department will have 5 to 6 experiments per lab. These 5 experiments will be based on 5 units of the course. For labs as shown above students will have 2 hours/week.

Total credits for theory and lab module will be 4 credits with 5 contact hours and one tutorial.

It is suggested that even tutorial to be counted for credits as per norms, but the decision is left to the management.

There shouldn't be any tutorials after 5<sup>th</sup> semester as per norms.

2. It is always better to have more Electives, department and open electives for the improvement of the student performance.  
Every department should have 5 to 6 department electives and 5 open electives. This will enhance the students' knowledge and outcome.
3. When suggesting text books faculty should keep in mind about the syllabus available in the text book. Ideally, 80 to 90 % syllabus should be available in the main text book.
4. The idea, is text book is for the students to learn and reference books are for the faculty to enhance the knowledge/information available in the main textbook. So, faculty should read reference textbooks while following the main text book.
5. Regarding first years, it is observed that the quality and quantity of Engineering Mechanics subject is getting deteriorated which will severely affect Mechanical and Civil students in the higher semesters. Many important topics were missing in the syllabus.
6. So, as for Engineering Mechanics, it is advisable to have one single syllabus for Mechanical and Civil Engineering and one syllabus for all other departments. This should be taken into consideration very seriously as per VR19 course structure.

#### **Suggestions for VR19:**

1. Every department should ask for their requirement of open electives from other departments. It is better to prepare exclusive list of electives from each department and can be modified as and when required.
2. In case of NPTEL/MOOCs open elective student should be given freedom for self-learning. Institute should provide facility for the students to listen (as many number of times) to the lectures of the course opted by him/her at any point of time during college hours. There shouldn't be coordinator or faculty to monitor. Attendance is also is also not required. Since, there is assessment in terms of assignments and end exam from NPTEL.
3. Department will give exclusive list of courses to be selected from online for open elective, but if some students are interested to opt for courses other than the ones available. He can opt upon prior approval from the Head of the Department.

4. Online open elective can be taken in 5<sup>th</sup> or 6<sup>th</sup> semester and the course completion certificate should be submitted by the end of 6<sup>th</sup> semester.
5. In the last semester i.e., 8<sup>th</sup> semester, Industry internship is given equivalent to 4 courses with 12 credits. Students should finish the internship in the span of 6 to 8 weeks and at any point the maximum time limit shouldn't exceed 8 weeks. This is because, the student should have enough time to his final year project, which is also in the same semester. It is always better to extend the Industry Internship project/work or should bring a problem from Industry for final year project work, so that a better outcome is possible.
6. Only core Industries should be chosen for Internships and it is the responsibility of the institute to provide internship opportunity to the student if he/she is not able to find one on his own.
7. For Industry oriented mini-project in 6<sup>th</sup> semester. Students should be allowed for two full weeks (with minimum 8hrs/day activity) to Industry to finish his/her project. In each week 4 batches can be sent to Industry with 4 to students/batch.
8. If students want to execute their projects within the campus, they should be allowed to do so, in facilities like CFI and R&D labs available in the Institute with prior approval from the respective lab in-charge and the HoD.

Resolutions:

1. The Programme Structure for III year and IV year B. Tech. Mechanical Engineering VR17 regulation (w.e.f. 2017 admitted batch) is approved after incorporating above suggestions and modification as attached.
2. The syllabi for courses taught by Mechanical Department for B. Tech. Mechanical Engineering and courses offered by Mechanical Department for other branch students as open electives is approved as attached.
3. Syllabi for open electives can be adopted as approved by respective department BoS.
4. The syllabus of Engineering Mechanics, Engineering drawing and Engineering Workshop for VR 17 may be continued as it is for VR19 also without deleting any topic.



**(Dr. Syed Kamaluddin  
Professor, HoD and Chairman, BoS)**

MEMBERS PRESENT for BoS meeting held on 01-06-2019

S.No	Name of the Person	Designation	BoS Status	Affiliation	Signature
1	Dr.S. Kamaluddin	Professor, HoD	Chairman	VIIT, Visakhapatnam	
2	Dr.B.Sateesh	Professor, Director Evaluation	Member	VIIT, Visakhapatnam	
3	Dr. L. V. Venu Gopala Rao	Professor	Member and Subject Expert Design Stream	VIIT, Visakhapatnam	
4	Dr. Chintapalli V.S.N. Reddi	Associate Professor	Member and Subject Expert Design Stream	VIIT, Visakhapatnam	
5	Dr. B. Harisankar	Associate Professor	Member and Subject Expert Thermal Stream	VIIT, Visakhapatnam	
6	Dr. N. Naveen Kumar	Associate Professor	Member and Subject Expert Materials Engineering Stream	VIIT, Visakhapatnam	
7	Mr. Ch. Siva Rama Krishna	Associate Professor	Member and Subject Expert Design Stream	VIIT, Visakhapatnam	
8	Mr. R. Sundararamam	Associate Professor	Member and Subject Expert Design Stream	VIIT, Visakhapatnam	
9	Mr. S. V. Ramana	Associate Professor	Member and Subject Expert Design Stream	VIIT, Visakhapatnam	
10	Mr. R. Rudrabhiramu	Associate Professor	Member and Subject Expert Thermal Stream	VIIT, Visakhapatnam	
13	Mr. A.S. Neel Kamal	Assistant Professor	Member and Subject Expert CAD/CAM	VIIT, VSKP.	
11	Dr. Chandramouli Padmanabhan	Professor	External Subject Expert	IIT Madras	
12	Dr. B. Balakrishna	Professor	External Subject Expert (JNTU Nominee)	UCE, JNTUK, Kakinada	
13	<del>Dr.</del> V. Rama Krishna	Scientist "E", NSTL	External Industry Expert	<del>NSTL Warangal</del> Visakhapatnam	
14	Dr.S.Sambhu Prasad	Professor	External Subject Expert	Pragati Engineering College (A), JNTUK	
15	Mr. K. Lokesh	Jr. Manager	Alumni	Visakhapatnam Steel Plant, VSP	

(Dr. Syed Kamaluddin  
Professor, HoD and Chairman, BoS)