



# VIGNAN INSTITUTE OF TECHNOLOGY AND SCIENCE

Near Ramoji Film City, Deshmukhi (V), Yadadri Bhuvanagiri Dist, Telangana - 508 284.

Affiliated to JNTU Hyderabad, Programmes Accredited by NBA, Approved by AICTE, New Delhi

EAMCET CODE : VGNT



Date: 10/05/2018

To,

The Dean Academic Planning,

JNTUH, Hyderabad

SUB: Curriculum gaps identified and suggested to implement for next AY (2018-19). Regarding....

Dear Sir/Madam,

As an affiliated institution to JNTUH, the programmes are bound to follow the curriculum set by the university. Different Department Development Committees of our college had discussed on the curriculum, considering the stake holders feedback, and recommend the Board of Studies (BOS) committee constituted by the JNTUH, Hyderabad to consider the following changes in the upcoming curriculum. We have identified the curricular gaps and have taken measures to bridge it by supplementing the curriculum with content beyond syllabus.

The table lists the identified gap in the syllabus for the attainment of Program Outcomes and Program Specific Outcomes:

S.N o	Branch	Identified Curricular Gaps	Subject & Subject code (if any)	Year & Semester	Remarks
1	ECE	Design of Memories	Switching Theory & Logic Design	II Year - I sem	This topic if introduced will give an idea for the students to understand the practical application of the logic gates and combinational & sequential circuits that they have studied.
2	ECE	Skill Development & Entrepreneurs hip	Request for New Subject to be introduced	For IV year	'0' Credit course as part of IV year -I sem curriculum. Reasons to inculcate entrepreneurship thinking skills in students are: 1) Entrepreneurship skills form the



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					basics like reading and writing, when it comes to succeeding in the complex world. 2) Entrepreneurship thinking skills enhances the value of knowledge obtained from STEAM disciplines. It brings out solutions to complex problems by integrating the knowledge gained in the STEAM disciplines. It transforms knowledge into value. 3) Entrepreneurship thinking skills is acquirable, and doing this at the earlier stage will help in mastering it. The more frequently we expose the students to these skills, the more entrepreneurial they become.
3	Mechanical Engineering	Thermal Engineering I	ME502PC (Theory) And ME505 PC (Practical)	3-1	In 3-1, Thermal Engineering theory and practical's are in same semester. It is difficult to follow up for the students. Hence we are requested theory paper in one semester followed by practical in next semester.
4	Mechanical Engineering	Fluid Mechanics	ME401ES (Theory) and ME407ES	2-2	In 2-2, FMHM and practical's are in same semester. It is



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		and Hydraulics Machines (FMHM)	(Practical)		difficult to follow up for the students. Hence we are requested theory paper in one semester followed by practical in next semester.
5	Mechanical Engineering	Manufacturing Process (MP)	ME405ES	2--2	Add one or two reference books to this syllabus. Injection molding process concepts are required to understand making of plastics related products. In forming Portion, basic concepts are available and we are requesting to add advanced forming process.
6	Mechanical Engineering	Metallurgy and Material science	ME305ES	2-1	Basic defects of crystals to be added. In R16, Heat treatment topic is given. But questions are received in sub topics. But it is not mentioned in details. High application materials are included in such as ceramic Polymers and composites. It is difficult to learn.
7	Mechanical Engineering	ICS	ME702 PC (Theory) And	4-1	Many subjects from second and third year are discussed based on various measuring



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S.N	Branch	Identified Curricular Gaps	Subject & Subject code (if any)	Year & Semester	Remarks
			ME704 PC (Practical)		instruments. But it is available in 4-1. So, we are requesting ICS theory and practical's are in early stage.
8	Mechanical Engineering	Engineering Mechanics	ME105ES	1-1	Vibration and its related studies are complicated to learn in early stage. Also, it is available in dynamics of machine. There they will learn deeply.
9	EEE	Power circle diagrams	Electrical Machines-II	III Year - I sem	This topic facilitates to know performance of electrical machines/transmission lines graphically, which avoids the calculations of quantities in complex form.
10	EEE	Power Plant Control	Power Systems-I	II Year - II sem	Automation of the system improves reliability and performance, in this regard it will be helpful to introduce this topic.
11	EEE	Advanced Speed Control Methods	Power semiconductor drives	III Year - II sem	In industries advanced & automatic speed control methods are adopting, in this regard it is better to include some of the advanced methods in addition to the conventional speed control methods.
12	CSE	Inclusion of	Internet of Things	IV	As per the University



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S.No	Branch	Identified Curricular Gaps	Subject & Subject code (if any)	Year & Semester	Remarks
		IoT lab as mandatory subject	Lac(CS754PC)		Curriculum, Data Communication and Computer Networks and Web Technology courses are introduced . To bridge the gap between academics and Industry, a course on Internet of Things (IoT) with awareness for hardware sensors can be made it as a mandatory subject for IV year students.
13	CSE	Incorporated with Modern Architecture and Processors	Computer Organization & Architecture(CS304 PC)	II Yr & I Sem	This will be helpful for their career.

We have also incorporated the following activities to bridge the above-gaps:

1. Choice based credit system is implemented by providing options to the students to choose elective subjects
2. Institute is concerned about providing healthy and learning based facilities in the hostel for all students.

Hope you will welcome our suggestions and consider to make the above mentioned gaps for next academic year.

Thank you



  
Dr G Durga Sukumar,

Principal, VGNT

**PRINCIPAL**

Vignan Institute of Technology and Science  
Deshmukhi, Bhongir, Yadadri Dist-508 284