



VIGNAN INSTITUTE OF TECHNOLOGY AND SCIENCE

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

Approved by AICTE, New Delhi, Affiliated to JNTUH, Hyderabad

EAMCET CODE : VGNT

PGE CET CODE : VGNT1



21.02.2021

To,
The Director Academic Planning,
JNTUH, Hyderabad,

Respected Sir/Madam,

Sub: Submission of R18-identified subject wise curriculum gaps at Institution-Reg.

Ref: curriculum gaps identified analysis – branch/topic wise.

I, the Principal of Vignan Institute of Technology and Science, hereby bring to your kind notice that, all the stake holders have identified the following gaps in R-18 curriculum.

S.NO	Branch	Subject Title	Year & Semester	Curriculum gaps identified (or) Changes suggested in R18
1	ECE	Digital System Design	II - I sem	Completely specified sequential machine using Partition technique need to be included in the syllabus. This topic will give them an idea on Moore and Mealy reduction procedure.
2	ECE	Analog & Digital Communications	II - II sem	If the subject is split into two subjects as in R13 & R16 regulations: 1) Analog Communications. and 2) Digital Communications, then the students will have



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				gain more insights on communication techniques. Now the subject is vast for the students to grasp the content.
3	ECE & EEE	Microprocessors And Microcontrollers Lab	III - I sem	In MPMC lab, it will be advantage for the students if they write the program in C language also. An option to write the 8086 code in Assembly language or C language will be helpful for them. Since they will be implementing the mini/major projects in microcontrollers using C language.
4	ECE	Scripting Languages	IV year - I sem	Scripting language lab is introduced in III - II semester and the Scripting language theory subject is in IB year - I semester as an elective. It is good if the subject is made compulsory in III Year - II semester or shift the lab to IV year - I semester.



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5	ECE	Digital Image Processing	IV year - I sem	The subject is core for the ECE students. It is requested to make it a compulsory subject instead of elective. It will help them to expertise about segmentation and compression techniques, Morphological operations on an image etc.
6	ECE, EIE & EEE	Internet Of Things And Internet Of Things Lab	-	Most of the ECE students do their projects in IoT, but the subject is not introduced to ECE. It is there as open elective under ECE. It will be very useful for understanding the concepts and carrying out projects, if the subject is introduced.
7	ECE	Soc Architecture Test & Testability Low Power VLSI Design	Professional Elective – VI	All the VLSI electives are been grouped in this elective. The students interested in VLSI core area are unable to study all the three important subjects. We request you to please group these core subjects in different electives for the



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				benefit of students.
8	ECE	Electronic Sensors	-	<p>ECE students use wide variety of sensors in their practical and project work. The subject is not introduced to ECE but it is there as open elective under ECE.</p> <p>It will be very useful for students in understanding the concepts of sensors.</p>
9	IT	DBMS		<p>1: Database Administrator (DBA) concepts can be elaborated in DBMS curriculum, So that students can get more job opportunities as a DB Administrator.</p> <p>2. To meet industry requirements, topics like NoSQL can also be included in DBMS curriculum, which gives more job opportunities.</p>
10	IT	Object-Oriented Programming using C++ Subject		<p>Could have included C++ Standard Template Library (STL), which facilitates the use of ready-made container classes like vector, list, deque, arrays, forward list,</p>



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				queue, priority queue, stack, set and map to store object and data. Also, can use collection of functions for searching and sorting on containers.
11	IT	Java Programming		Could have included Database Connectivity in Java Programming Subject, Which facilitates developing real time front end Java applications that can operate on any backend Databases.

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

1. In house training team has been constituted to provide industry specific training in technical and soft skills from 1st year onwards. The necessary hardware and software has been procured exclusively to be used for the same.
2. Webinars have been organized with speaker drawn from industry as well as Foreign Universities to bring awareness among the students about various avenues for higher education.

In this regard I request you to kindly acknowledge this letter communication and suggest accordingly.

Thanking you sir,

Yours Sincerely,



PRINCIPAL
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