

AQAR 2020-21

1. Title of the practice:

TEACHING PEDAGOGY

2. Objective

Engineering is a career that deals with manipulating materials, energy, and information to benefit humanity. To do this successfully, engineers must have a knowledge of nature that goes beyond mere theory—knowledge that is traditionally gained in educational laboratories. The objectives of attending online classes and laboratories are to teach students about the concepts, algorithms, experimental tools, the scientific process, how to conduct careful experiments, and how to analyse and interpret the results.

3. Context

Due to covid -19, the students are not able to attend regular classes. This leads to find the alternate mode of teaching learning process. The different online teaching pedagogy were adopted in our institute to overcome the challenges phased.

4. The practice

Technology has changed the possibilities within teaching and learning. Digital education is the term used to refer to all online educational practices. It includes lecture modules with inbuilt visuals, text, quiz, FAQs, assignments, glossaries, case studies, references, discussion and download. We encouraged our students to do online internships and also conducted guest lectures, workshops, case studies etc. During Pandemic VEC had conducted Virtual labs and webinars apart from regular classes. The various labs conducted are as follows.

NAME OF THE LAB	PROVIDED BY
Digital System Design	Virtual Labs – IIT Roorkee
Circuits and simulation	Virtual Labs – IIT Kharagpur
Communication networks	Virtual Labs – IIT Bombay

Advanced Communications	Virtual Labs – IIT Kharagpur
Surveying Laboratory	Virtual Labs – IIT Roorkee
Strength of Materials Laboratory	Virtual Labs- NITK-Surthkal
Hydraulics Engineering Laboratory	Virtual Labs – IIT Hyderabad
Soil Mechanics Laboratory	Virtual Labs – IIT Hyderabad
Water & Wastewater Analysis Lab	Virtual Labs – IIT Bombay
Concrete and Highway Engineering Lab	Virtual Labs- IIT Delhi & NITK-Surthkal
Linear and Digital integrated Circuitis lab	Vrtual Labs- IIT Boombay, IIT Roorkee, IIT Kharagpur
Devices and Machines Lab	Virtual Labs- IIT Kharagpur, IIT Roorkee
Circuits Lab	Tinker CAD Online Simulation Tool
Industrial Instrumentation Lab	Virtual Labs - IIT Bombay, IIT Kharagpur
Microprocessor and Microcontroller lab(IT dept)	Emulator Online tool

5. Evidence of success

Conducted the internal and end semester examinations and announced the results.

6. Problem encountered and resources required

Technical issues are bound to happen in an online-only environment. This may sound obvious but technical issues, and internet connection only add to the online environment's frustration and interrupt new distance learning sessions. Sometimes computer will shut down, or there are moments when wifi is spotty, and weak monitors can make it challenging to keep up with virtual classmates and learning environment.

1. Title of the practice:

ONLINE CAMPUS TRAINING AND PLACEMENT

2. Objective

- To plan and organize the pre-placement training to pre-final year students
- Arranging Campus placement for the students (both on campus and off campus).

3. Context

Due to covid -19, the students are not able to attend regular placement training and attend offline placement. This leads to find the alternate mode of training process. The online mode training helped students to equip themselves and attend the placement interview.

4. The practice

Online Placement Training is an integrated and professionally inclined placement training course fully attuned to the placement processes and requirements of the major organizations, institutions, and industries and aims to provide our trainees the soft skills, logical aptitude and reasoning, interpersonal communication skills, and writing skills along with personality development to ensure that they can qualify for placements. Our Placement Online Training is developed and delivered by professional placement trainers and experts with a focus on mock Group discussion and personal interview.

The training and placement activities comprise of planning pre placement training; collection of feedback of pre placement training and review the feedback for improvements; Consolidation of students registered for placements; review of feedback from organizations on the request for campus placement; arrangement for the conduct of campus placement; review the placement performance against the target defined; plan for additional pre-placement training; consolidation of Alumni feedback and communicates to the departments; review of organizations feed back

Number of Companies visited	233
Number of students registered for placement	620
Number of students placed	589
Total number of offerr	897
Placement percentage	95
Average salary	4.54 LPA

5.Evidence of success

The placement during pandemic was 95 percentage with an average salary of 4.54 LPA.

6.Problem encountered and resources required.

Technical issues like poor signal, camera quality, poor microphone.