Best Practice 1

Title of the Practice: Making students job ready

Objectives of the Practice:

- 1. To improve the technical skills of the students
- 2. To introduce workplace skills to the students
- 3. To make employment avenues available for students

Context:

Students studying in the institute are mostly first generation engineering students (most of them are from Fishery or farming family background) with maximum of them aiming for employment to support their families. However, providing a job to graduating student has always being challenging because of the industry academia gap. According to the statista.com, employability among engineering graduates across India from 2014 to 2023 remained to an average of 52.6%. NITI Aayog's report on National strategy for Artificial Intelligence published in 2018 stated that almost 80% of engineering graduates are unemployable on graduation.

Hence to make a students job ready, institute focus on training of students by providing them additional knowledge in their respective domain and emerging areas along with soft skill and industry specific customized training.

The Practice:

Institute has developed a strategic road map to provide additional training of students from first to final year so as to make them job ready.

This includes offering opportunities for the development of both technical and workplace skills. Training opportunities are provided through expert talks, value added courses conducted through virtual and physical modes, Honors/ Minor courses offered in emerging areas and Online education platforms in addition to regular university curriculum as described below.

i) Awareness Programs and Expert Talks tailored to industry requirement: The institute organizes regular sessions/workshops as per the industry requirements. The Principal, industry experts and alumni interacts with the students frequently to emphasize the need of undertaking different activities for the employability enhancement.

ii) Value added courses, Add-on courses and Workshops on Advanced topics to bridge the gap between academics and industry: Every department offers various value added and addon courses, seminars and workshops in addition to regular academics. The students are also encouraged to complete the internship/ training in the industry during vacation. This helps student in acquiring latest knowledge in their respective domain of engineering.

iii) **Training activities fostering workplace Skills:** The institute takes rigorous efforts in enhancing the workplace skills of the students by providing them various platforms such as

industry sponsored soft skill training programs, annual gathering, technical competition-Brainwaves etc .

iv) Creating awareness in parents regarding the need of additional value added courses: Raising awareness among parents motivates students to participate in training programs, spurred on by their parents' encouragement.

v) Tie up with online learning platforms:

Institute has tie ups with several international online education platforms. Students can undergo certificate courses in most of the emerging areas as well as workplace skills through these learning platforms completely free of cost.

vi) Honors/ Minor programme:

To provide curriculum flexibility and a choice to acquire knowledge in emerging areas; Honors/ Minors programmes are introduced in the field of AIML, Data Science, Electric vehicles and Waste technology.

vii) Acquiring licenses/ assistance from core engineering companies:

Very few online education platforms comes with core engineering courses in the field of electrical & mechanical engineering. To overcome this limitations, Institute acquired licence softwares from core engineering companies such as Ansys, Matlab etc. Product development Center built with assistance from Finolex Industries and the active MoUs with companies like Mechatol for design engineering, provides student a platform to gain a insight in core engineering along with software technologies.

Evidence of Success:

The success of this practice is evident by the gradual and sustainable improvement in placement activities as tabulated below

Sr.		2015-	2016-	2017-	2018-	2019-	2020-	2021-	2022-
No.	Title of Activity	16	17	18	19	20	21	22	23
	Placement drives								
1	organized (On Campus)	6	10	20	40	25	15	35	35
	Placement drives								
	participated (Off-								
2	Campus)	10	30	20	29	30	25	21	6
3	Placement in percent	9.61	42.3	53.12	80.6	68.67	88.67	91.99	86.39

It is worth noting that, even during the covid years institute managed to make a placements of more that 85% eligible students.

Because of the intensive certification programs undertaken by student Mast. Zakwan Mapari on online IBM skillsbuild portal; the company featured him in their promotional activities.



Institute every year consistently receiving awards for placements through various agencies (recognitions & awards are summarized in the response to the QIM7.3.1)

Introducing online education portals helped students & teachers in gaining the knowledge. Number of courses completed through online portals are summarized below

Sr. No.	Name of the online Platform	No. Of courses completed by students & faculty
01	Coursera	2624
02	IBM Skillbuild	4285
03	EDx	431
04	IIRS-ISRO	54
05	NPTEL- Swayam etc	100+
	Total	7390+

Problems Encountered and Resources Required:

Institute faces a challenge due to its geographically remote location and lack of air connectivity. This remoteness hampers direct engagement with industries, making it challenging to organize on-site visits, internships, and collaborative projects.

The socioeconomic background of a students demand more efforts and time to equip them with skills required to make them job ready.

Finding core industrial knowledge on online portals is challenging as most of the portals offer software courses and workplace skills.