OmDayal Group of Institutions
ENGINEERING COLLEGE | ARCHITECTURE COLLEGE
AICTE & COA Approved l MAKAUT (WBUT) Affiliated l NAAC Accredited
Campus : Plot no. 38(P), 38(A), 39(P), & 39(A), Uluberia Industrial Growth Centre, Uluberia, Howrah, West Bengal – 711316
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<u>Criteria 7: Best Practices</u>

Best Practice 1

1. Title of the Practice: Outcome based quality enhancement program through Experiential Learning.

2. Objectives of the Practice

● To develop better understanding of course material and gain more course specific knowledge.

● To maintain a balance between the old paradigm of teaching learning process with application based learning.

● To helps the institution in getting the students' insight on any course with overall potential.

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● To involve students and faculty members in testing and consultancy activities for various organizations.

3. The Context

Experiential Learning is the process of learning by doing. By engaging students in hands-on experiences and reflection, they are better able to connect theories and knowledge learned in the classroom to real-world situations. Throughout the experiential learning process, the learner is actively engaged in posing questions, investigating, experimenting, being curious, solving problems, assuming responsibility, being creative, and constructing meaning, and is challenged to take initiative, make decisions and be accountable for results.

4. The Practice

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OmDayal Group of Institutions (ODGI) provides students an opportunity to gain experiential learning in the following way:

- **Soft skill enhancing curriculum**: In ODGI teachers help students to prepare for success by incorporating crucial soft skills training into their lesson planning and classroom goals. This is done by encouraging group projects, teaching complex problem thinking with innovations and experiments.

- **Inter disciplinary teaching learning**: We believe that compared to traditional approaches, an interdisciplinary approach expand what a student learns by allowing them to tackle problems that don't fit neatly into one subject. It also changes how students learn by asking them to synthesize multiple perspectives, instead of taking what they're told by a teacher at face value. This is done by various involving students in inter disciplinary projects, participate and showcase their projects various tech fest organized by IITs and NITs.

- **Coding skill enhancing curriculum**: We all know that no student is a born coder; it takes practice, patience, and strategy to perfect coding skills. With the world going digital and technological innovations abounding, it's crucial for every programmer to know how to improve coding skills and hone their expertise. As programmers work with a variety of programming and markup languages, there are different pathways to enhance their skills according to their specialization. This is done by encouraging students to attend weekly and bi-weekly coding competitions in various online platforms, participate in intra & inter college coding competition.

5. Evidence of Success

Success is the most important aspect in any system. It has been observed that the students have shown keen interest in experiential learning activities. Students are willingly participating in various activities like coding competitions, Tech fest, soft skill

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workshops, which have given them an opportunity to apply the knowledge gained from curriculum with some practical exposure. Regular feedback has enabled the institution to add value to the existing academic and make it student centric.

Best Practice 2:

1. **Title of the Practice:** Promote creative design thinking at C.V. Raman Innovation Lab

2. **Objectives of the Practice :**
   - Providing the appropriate environment to incubate ideas and convert them into projects and products based on scientific research.
   - Aims to make engineering graduates more innovative and creative in critical thinking, problem-solving, design thinking, collaboration.
   - Building and developing an integrated system in innovation and entrepreneurship.
   - To offer all facilities & services required for product development for Start-ups at affordable prices.

3. **The Context:** The C.V. Raman innpvation Lab will be dedicated to the up-gradation of engineering education among students, faculty, Industry & its workforce, with the latest industry trends and practices, rendering the requirements of the rural population & upgrading skill-based learning. The Innovation Lab is an experiential and practicum course that uses a multidisciplinary and collaborative approach to teach students innovative and creative design-

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thinking at the intersection of business and social enterprise, as well as the practical aspects of launching and leading a social innovation start-up venture.

4. **The Practice:** In laboratory conduction, most of the faculties conducted an experiment of a virtual lab for the students. Students are encouraged in doing experiments through remote PC also so they will be able to utilize their free time efficiently.

- **Voyage, the Annual Tech Fest:** Technical fests are an essential part of course curriculum as it gives a platform to young brains to showcase their innovative ideas and compete with their peers. The main objective of the program is to promote innovative thinking and practical skills through real life technological projects. ODGI organizes Voyage, the annual tech fest every year and all best projects are showcased in the innovation lab.

- **Smart India hackathon:** The Smart India Hackathon (SIH) is a platform to promote innovation and out-of-the-box thinking among young minds and aims to institutionalize a model for harnessing the creativity and technical expertise of millions of Indian students for the direct benefit of our nation. Students of ODGI utilize our innovation lab to inculcate the culture of product innovation, problem-solving and out-of-the-box thinking among them.

- **Expert Talk on Innovation, Incubation and Entrepreneurship:** C.V.Raman Innovation Lab organizes expert talks on innovation, incubation and entrepreneurship on regular basis. Such expert insights help students and faculty members to dig deeper into the realm of their field. Because we believe that just bookish knowledge is not enough. Students need to get exposure to people with real-life experiences and learn beforehand the tricks of the trade.

5. **Evidence of Success:** More number of students participating in Smart India Hckathon this year. Three students of Department of CSE attended 'National Symposium on Electrics, computing and Communications' at IETE, Kolkata Chapter on June 2024.

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Their project 'Disease Gene prediction model' selected for presentation in the conference. Ten students participated in 'Anneswan@SSM 2023' organized by Shaympur Sidehswar Mahavidyala on 10th October, 2023 and one of them Mr. Sajan Kr Yadav secured three prizes in the field of Best innovative project, Best Project and Most environment Friendly Project.