

## **Criteria 7.2**

### **A) Best practices-1**

#### **1. Title of the Practice: MENTORING PROGRAMME**

#### **2. Objective:**

- To achieve the vision of the institution viz., to develop all round personality of the students on progressive lines.
- To provide a continuous learning process for both the mentor and the mentee.
- To establish the mentor as a role model and to support the mentee for personal and academic development.
- To establish a vibrant relationship between the teachers and the students that will ensure responsible behaviour and discipline.

#### **3. The context:**

The nature of students' background i.e. catering to different socio-cultural and economic diversity necessitates mentoring being opted as one of the best practices by the institution. The absence of institutionalized system of having proper system of mentoring, guidance and counseling in the region along with the obvious fact that most of the students are from rural areas and first generation learners makes it imperative on the part of the institution to provide mentoring i.e. guidance for development of the students on academic as well as aesthetic lines. Moreover, it is aimed to align with the institutional mission and vision statement aiming to develop students on progressive lines i.e. to imbibe in the students a rational positive outlook towards life thereby making them responsible citizens.

## **B) Best practice-II**

### **1. Title of Best Practice: APPLICATION BASED PROJECTS**

#### **2. Objectives:**

- To assess interactive skills (Verbal communication, Non-verbal communication, Listening skills, Negotiation, Problem-solving, Decision-making, Assertiveness) of a student.
- To sensitize the students for research and analysis work with respect to their project for social welfare.
- To provide a platform for industry-academia interaction.

#### **3. The Context:**

a. As per curriculum of final year of Bachelor of Engineering which is prescribed by Shivaji University ,Kolhapur& AICTE respectively , projects have to be submitted by group of students(2 to 4 members).

b. All the guidelines are shared by academic in-charge to students and project guides regarding Project schedule, formats, project themes etc.

c. For continuous guidance of project guide has been allocated to the group of students.

d. For evaluation of project external examiner has been invited who is preferably an Industry person or a senior academician.

e. There are two separate sections for evaluation:

i. Evaluation by project guide

ii. Evaluation by external examiner.

In this process students are not only evaluated by external examiner but they also get input and feedback from external.

f. Students made projects for the social benefit also, some projects are sponsored. Projects like “Design of Waste Water Treatment Plant for Khubi Viliage’, Design of Water

Treatment Plant of SurliViliage’,’ Automatic flow control system for irrigation of agriculture land’,’ Smart farm fertilizer and pesticides prediction using IoT’,’ Robotic vehicle controlled by hand gesture’,’ Women safety device with GPS tracking and alerts’ etc.

g. Students have also published paper in reputed journals on their project work.

Some examples of application based projects are,

1. “Intelligent Framework for Auto filling web forms using Scanned documents” project basically helps to avoid manual work while filling admission or exam form of the student.It is mostly used in colleges.
2. “Iot based flood detection and alert system”,in order to detect and avoid floods in a timely manner, technology plays a crucial role. With the help of technology, we can avoid dangerous situation caused by floods and save lives.
3. “Design of Waste Water Treatment Plant for Khubi Viliage” ,to treat and recycle a waste water generated after used for different purposes in Khubi village.
4. “Semi automatic corn peeling machine” remove Corn Kernels from eweet corn cob from its roots and to get whole corn cob,with maximum of sweet con from sweet corn cob.it is used in agricultural By-products.