7.2.1. Title of the Best Practice1 : 'Value added courses'

Objectives of the Practice:

We intend to equip students to become expert in upcoming technology. Majority of the departments have been conducting value added courses in their respective domains. Value added courses are now considered to be primary importance for students learning outcome. These courses help or aid students in their employability and their skill-oriented profession. Value added courses are introduced in the extracurricular domains in our course structure and we insist upon all students to undergo the courses compulsorily. It gives awareness for inter planer training, implant training and placement.

The Context

Formulation of value-added courses is done by chairman of Board of Studies in consultation with the member of Board of Studies in the respective departments. While formulating the courses the faculty team takes into consideration of the longevity ofthe specific courses. They also look into the availability of the course trainers and the logistical arrangements.

The Practice

Value added courses offered by various departments are as follows:

1. Aeronautical Engineering Department
    1. Mesh tools for industrial application
    2. CATIA Industrial Application.
2. Agricultural Engineering Department
    1. Testing and Evaluation of Agricultural Machinery and Equipment

3. Automobile Engineering Department
    1. Automotive Vehicle Fault Diagnostics
4. Biomedical Engineering Department
    1. Java and Lab view GUI Programming with Real-time Application.
    2. Innovation in biosensor applications usinglab VIEW
5. Chemical Engineering
    1. Bulk solid handling for chemical engineers
6. Civil Engineering Department
    1. Autodesk Revit Architecture.
7. Computer Science Engineering
    1. Computer Hardware and Networking
    2. Database Using SQL.
8. Electronics and Communication Engineering
    1. Arduino & Raspberry Pi
9. Electronics and instrumentation Engineering
    1. Object Oriented Programming Using JAVA
10. Electrical and Electronics Engineering Department
    1. Lab view programming.
11. Food Technology
    1. Food product Development
12. Information Technology Department
    1. Database Using SQL, Computer Hardware and Networking and Android
    2. Development with Kotlin, the Complete REACT Native

13.Mechanical Engineering Department

1. Introduction to MS office
2. Computational fluid dynamics.

All the courses conducted under value added courses are skill oriented and all the courses are most important in the context of employability, skill development and serving as stepping stones for the institution and entrepreneurship journey.

Evidence of success:

We made value-added courses as a component of co-curricular activity. These courses are handled by experts from in-house faculty members who have been trained in that area. The courses are done with assignments or assessment methodology. At the end of the course, there will be a certification based on various assessment methods adopted by the trainers. During certification the students will possess the knowledge as envisaged by the objective of the courses. The result is based on the target and benchmark set by the industry.

Problems encountered and Resources Required:

A crucial and challenge adopted in the stream of value-added course is about trainers availability and time factor. These courses are conducted with the support of college management in the interest of the student community. In some specific incidence, we also support the trainers in the infrastructural amenities.