7.2.1 - Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual.

Best Practice-1:
Title: **Improving Employability through Skill Development**

Goal:
To enhance the employability skills of the students to the ever demanding and changing scenario of industry. The students are to be made industry ready at contemprary technologies and life skills. Problem solving skills are the focus.

The Context
It is seen that the industry particularly in and around Hyderabad focussed on employability skills like usage of modern tools, problem solving abilities, participation in competations.
The main challenge is the gap between the curriculum and industry and designing a effective curriculum balancing between basics and advanced topics given the limitations of number of credits.

The Practice
A effective program has been designed by bringing various technological advances in the curricullum while retain the strength of basics.
The number of laboratories courses have been increased and their implementation has been moved on to online through virtual_labs, online compilers, global platforms like hackerrank and leetcode.
Also for every theory course a class assessment component in continous evaluation has been introduced to encourage students to do certification(Spoken_Tutorial_IITB)/case_studies/design/simulation/projects.
From first year itself goal setting is done as part of the induction program with assessing a student on challenges, exposing them to industrial visits, guest lectures on advances in related to their chosen program.
A online platform A2I(Academics to Industry, m/s Talentio) has been adopted. This platform has various online compilers like c/c++/java/python/dbms; also it has global platform access to hackerrank and leetcode. Further the students have access to industry specific quantitative and qualitative questions along with mock interview model at all levels such as specific to a role(front end engineer/backend engineer/ application specialist and so on. A dash board is also available to monitor progress in terms of effort(time spent on platform) versus outcomes(number of problems solved).
We have introduced add-on subjects in every program such that their awareness levels in other engineerings also improve.
Career mentoring is done here. College mentors receive reports about individual student performance. Professional mentoring is done on an online platform, in the presence of college mentors, called Kaizala. Regular review meetings between mentors/administrators/Talentio team are conducted to ensure effective participation, problem resolution and progess of the students.
Coding and problem solving competitions are regularly conducted at different levels to expose the students to the selection process in industry.
Further we have mous with various industries like salesforce, IBM, Dell, ICT Academy such that our students undergo trainings and internships in these technologies.

Evidence of Success

The focussed, mentored, and customizable approaches has lead to improved quality of placements not only in salary but also quality of jobs. The number of companies with repeat visits annually has increased. The feedback from the Company HR's is also evidentiary.

Problems Encountered and Resources Required

The main problem is outside the institution where some economically challenged students face issued in cost of technology to practise beyond college hours.

Best Practice-2

Title: **Student Mentoring System**

Objectives of the Practice:

Mentoring is a highly valuable development activity implemented in our college. At the core of the activity, is the relationship between mentor and mentee, where the development of the mentee is the key focus. A mentor is assigned to act as an advisor/counselor, and a guide. Through mentoring UG students are encouraged to "explore, succeed, and connect" in everything they desire to pursue. Mentors also counsels students for solving their problems and encourage them and instill confidence in them to improve their quality of life. They are also made aware of their social responsibility as an engineer.

The Context:

The following are the issues that motivated the college to implement the mentoring system. Inculcating discipline, punctuality, and motivation among the students are the main objectives of pursuing their undergraduate course and career building. The college has adopted a well-established system, Counseling and Mentoring Diary (CMD) to monitor mentor the students' activity. This scheme aims at addressing conflicts in attitudes, habits, and knowledge of the students towards learning practices.

The Practice:

The progress of the student is continously monitored.

Every section of 60 students have three mentors, each mentor is assigned with 20 students and their CMD is maintained by the concern mentor respectively.

The Mentors prepare monthly attendance of every student and notify the information to the parents of defaulters through proper channel.

The Mentors meet the students associated with them once in a week. A separate mentoring and counseling hour is allotted for each class as a part of their timetable, and the respective faculty meets the students.

The Parents/Guardians of poor attendee/performance students are called to meet the mentors for further improvement.

If a student is absent for more than ten days then HOD calls their parent, enquires the reason and if no improvement is seen the HOD forwards the details of a student to the Principal for further action.

Each mentor maintains the entire student Information, which is examined by the HOD and others concerned when necessary.

Senior students interact with junior students sharing their experiences of co-curricular activities and the exposure they gained through the project and seminars are shared among themselves. Fresh ideas emerge during the meetings.

Evidence of Success:

Due to effective mentoring practiced by the faculty, there has been a marked improvement in the overall performance of the students.

Improvement in the teacher-student relationship.

The attendance of the students has increased.

The number of detainees has decreased.

Improved academic performance.

Mentoring helped the students to identify their shortcomings, and work towards improving their overall personality and communication skills. Mentoring helped the students to choose the right career option, and pursue it.

Mentoring also helped the mentees to decide on how to choose a relevant workshop, seminar, additional coaching, and value-added course relevant to their specialization.

Problems Encountered and Resources Required:

Not all the students who have joined engineering are fully motivated to work towards their goal. Gaining the trust of the students to share their difficulties and problems.