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ENGINEERS WITH
SOCIAL RESPONSIBILITY

NAAC Accredited
Recipient of Centre of Excellence Award by the Government of Gujarat
Recipient of '5 Star' in GSIRF Ranking by Government of Gujarat

Stakeholder Feedback Summary BTech (ICT)

Summary of the Student Feedback

Strength of the Program:

- Good mix of Computer Science, Electronics, Communications, and Humanities and Social Sciences courses
- Excellent faculties,
- Courses are well-designed and structured
- Labs help solidify the theoretical concepts
- Freedom to choose electives
- Good infrastructure, good environment

Areas where improvement is needed:

- Some core courses from Communications and HASS area need to be reduced
- Computer science core needs to be enhanced (OOPS should be a core subject)
- Handling of the labs need improvement
- Number of electives should be increased

Summary of the Employers' Feedback

About 70% of the campus recruiters primarily belong to software industry, while 30% of the recruiters have significant hardware divisions as well.

According to them, the BTech program should be strengthened in the following areas which are increasingly becoming important to the industry:

- Programming and software development proficiency
- Foundation in machine learning
- Proficiency in embedded systems and VLSI design

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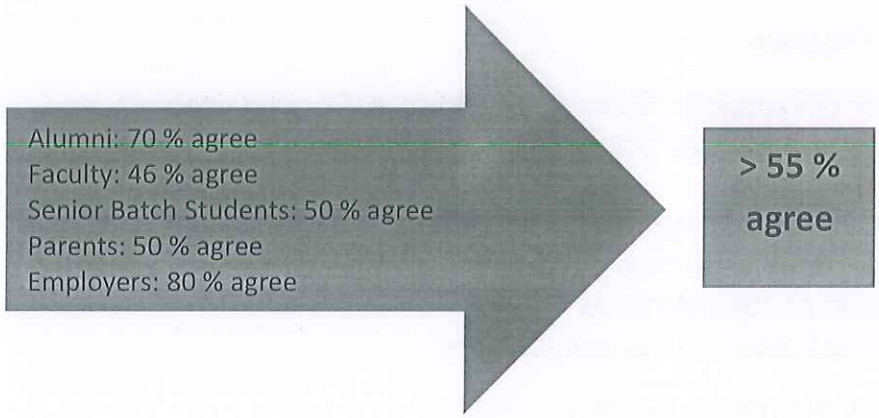
Summary of the Alumni Feedback

Alumni who have now spent a number of years as a professional, exhibited a strong appreciation of the education they received here. In particular, they appreciated:

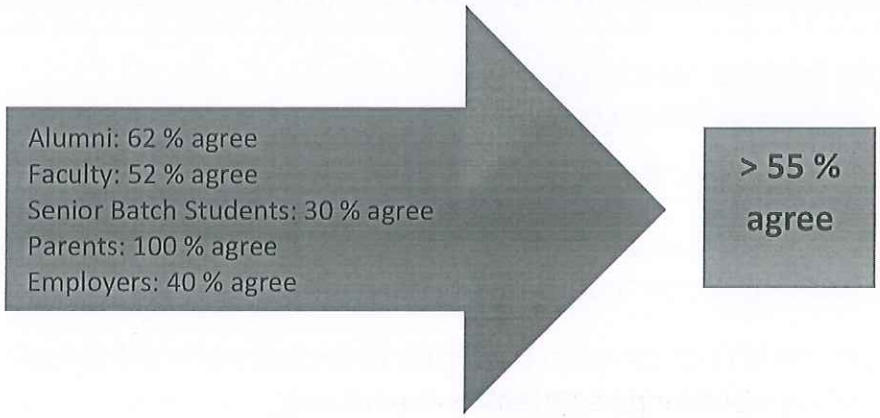
- The strongly interdisciplinary foundation in the curriculum
- Practical and hands-on component of the courses, and
- The program that was designed to enhance their critical thinking capabilities.

Many of the alumni stated that the institute should offer specializations in ICT tracks and minors in non-ICT disciplines. Also, the curriculum should better prepare the students for a career in industry.

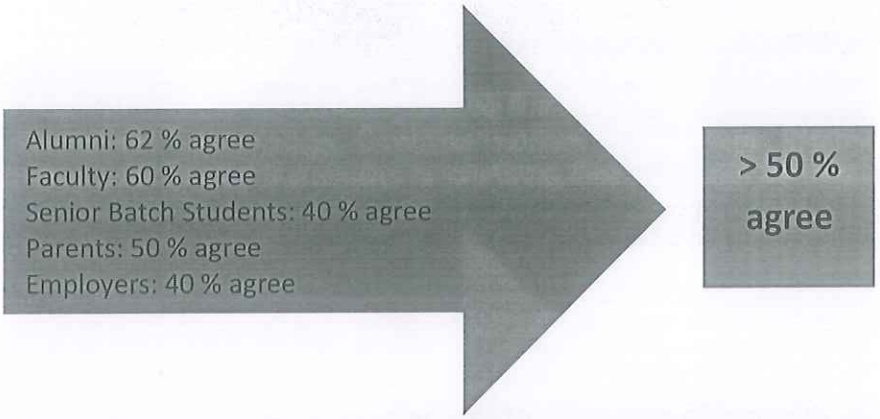
Q1. The existing curriculum meets the program educational objectives (PEOs).



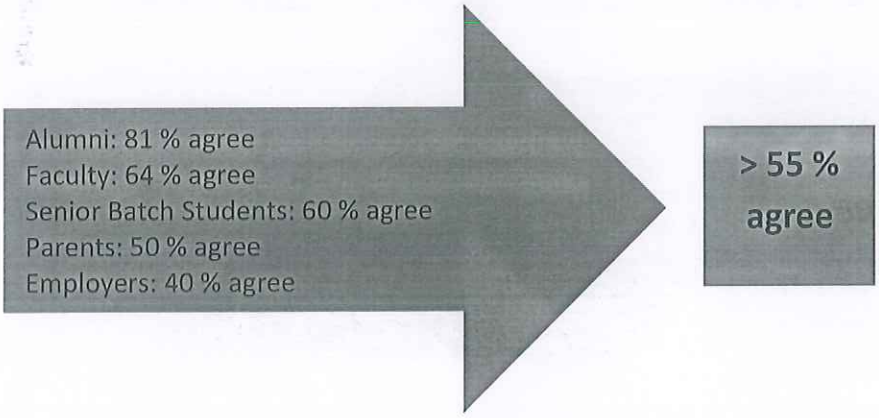
Q3. Theories and Practicals are well balanced in the existing curriculum.



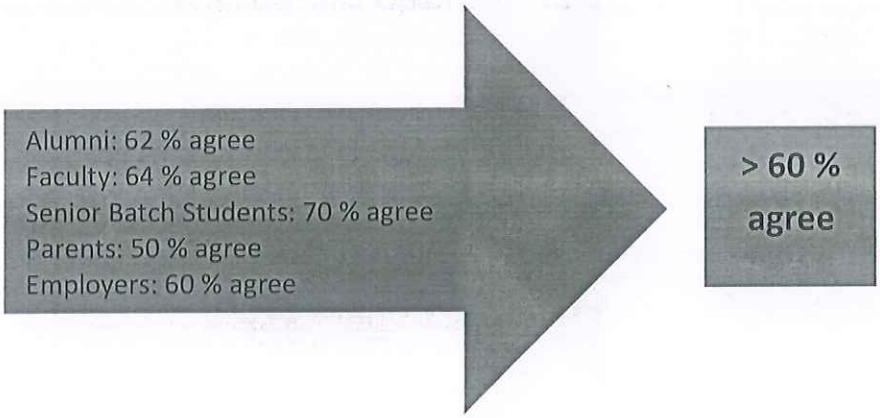
Q4. The existing curriculum structure (having 5 chains - Mathematics and Basic Sciences, Information Technology, Communication Technology, Electronics and VLSI, Humanities and Social Sciences) is working fine towards its objectives.



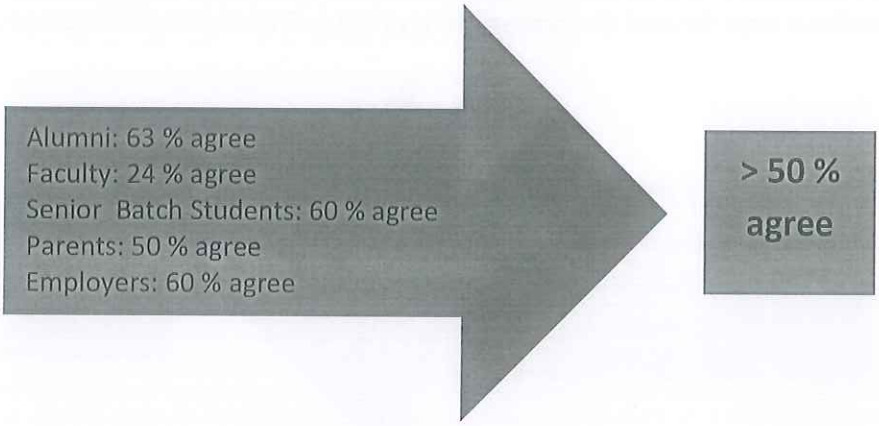
Q5. The curriculum may continue with existing FOUR kinds of electives - Group, Science, Technical, and Open electives.



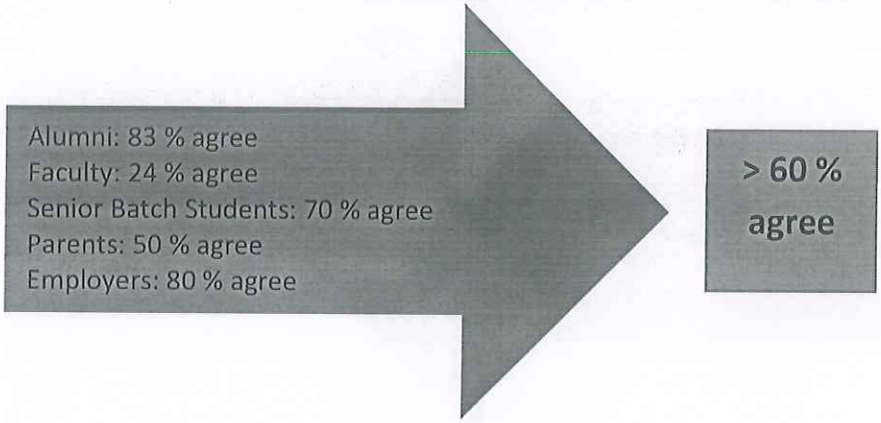
Q6. Placing Rural Internship in Winter II break meets its objectives.



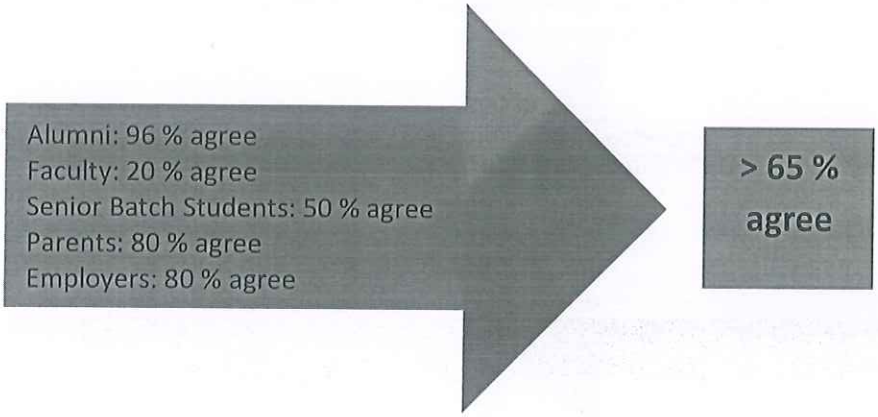
Q7. Research Internship meets its objectives.



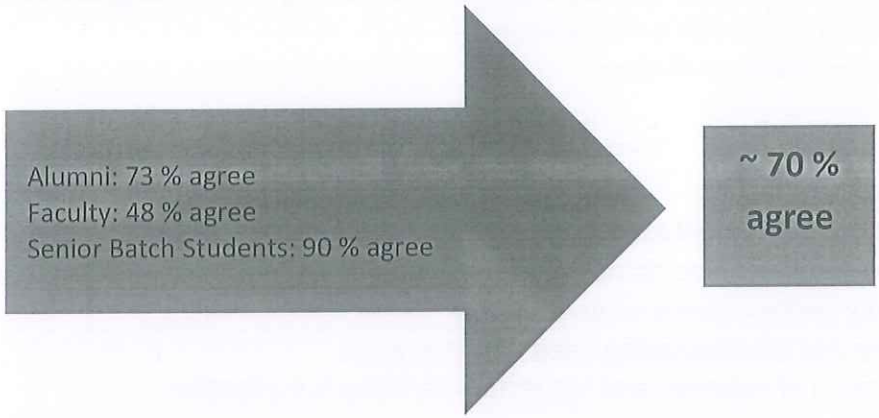
Q8. Industrial Internship meets its objectives.



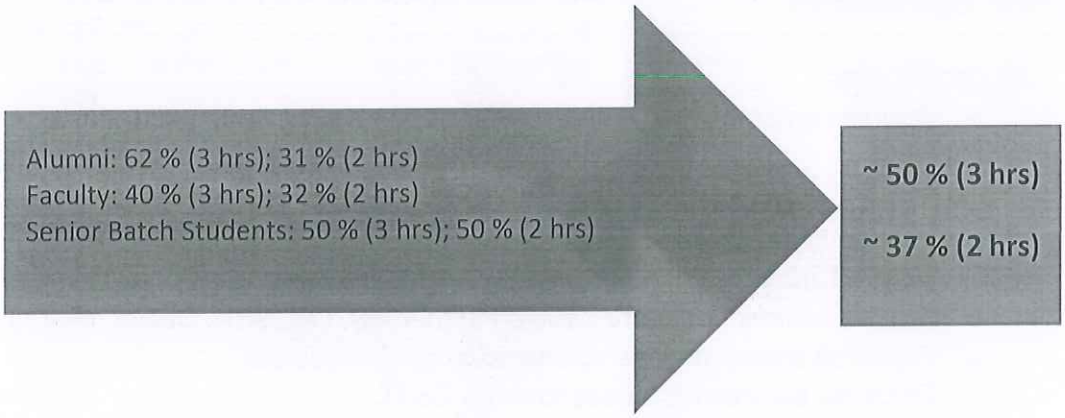
Q9. BTech project meets its objectives.



Q10. Doing project work/credit from the Semester III or IV may be considered in the curriculum.



Q11. Lab based Core courses may follow



Strengths in the curriculum

- Alumni
  - Freedom to choose electives;
  - Rural Internship;
  - Humanities stream

- Senior Batch Students
  - Diversity of courses;
  - Humanities component;
  - Rural internship

Weaknesses in the curriculum

- Alumni
  - Slots restrict students to take some preferred electives;
  - TAs are NOT technically sound;

- Latest technologies and tools are not covered in some courses;
- Important electives (e.g. analytics, machine learning) are missing in offerings;
- Internship evaluation is ineffective;
- Visiting professors efficacy.

- Senior Batch Students
  - TAs efficacy issues;
  - Static course content for a long duration;
  - Many elective course do not have any follow-up or lack sync with others;
  - Industry centric course content;
  - Theory and lab decoupling does not have sync;
  - Evaluation of research and industrial internship is ineffective

Specific comments

- Alumni/Student
  - Course content updating in a regular basis keeping pace with industry

- Faculty
  - Internship and BTP do not meet program objectives (differ from alumni/student feedback!)
  - Course content update/re-structuring (namely, OS, SEN, DBMS, Maths)
  - Pass/Fail course may be converted to graded course;
  - Electives selection is biased towards CS/IT;
  - Too many Open electives; Tag of Science/Open electives may be re-looked at;
  - TAs (undergrad TAs), delivery mechanism, grading and implementation issues.

- Parents
  - Formal internship structure;
  - Mandatory industrial internship;
  - General engineering course

- Employers
  - Courses like analytics;
  - Mobile application/platform, NLP, Machine Learning should exist in the course offerings

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