2.3.1 Q₁M

Student centric methods, such as experiential learning, participative learning and problem-solving methodologies are used for enhancing learning experiences

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Response:
In order to provide an enriched learning experience, the University emphasizes on various student centric learning methods that are matching with the needs of students and the course being taught.

The academic module for various programme in HBTU is tailored to give a holistic learning experience to the students. Innovative teaching-learning strategies are employed that encourage students to participate and contribute to the learning experience of their peers. The core curriculum ensures that students have a strong grasp on the basic concepts and are able to apply the knowledge to analyses, evaluate and use in practical situations. Emphasis is given to Outcome-Based Education where a student achieves a goal by the end of the educational experience. Choice Based Credit System (CBCS) allows students to choose papers of their choice that aligns with their goal for the future. The following measures are taken to ensure experiential learning, participative learning and problem-solving methodologies:

- Experiential learning through Laboratory experimental work, Summer Internship, Semester Internship, field visits, Industrial visits etc.
- Students make use of the latest software and tools available in the labs to enhance their knowledge and expertise.
- Participative learning through brainstorming sessions, expert lecture and conducting quiz at department level.
- Problem solving methodologies through research project work.

Faculty members encourage student centric learning by giving problem and learning material which involve the students in Project based learning, group problems/discussions, collaborative learning, and learning by examples.

- Faculty makes use of multimedia teaching-learning process using smart classroom and the latest software like matlab, virtual lab, smartdraw, ArgoUML etc. for demonstration purpose.
- Some of the innovative techniques adopted by the faculty members towards students centric learning are:-
  - Group/Collaborative Class Room Activities: Design tasks are assigned to the students divided into 5-6 groups. Each group is allocated 25 minutes to evolve the design through mutual by discussion. Each group leader is then allotted 05 minutes time to present the design in the class leading to substantial gain in students' involvement in learning through collaboration.

- Flipped Class Room: Students are communicated about a video lecture related to upcoming lecture to view and attempt an online quiz before actually attending the lecture. Thus, students knowing well in advance about the topic of discussion feel more attentive and interactive during the class.
- Online Class Room Quizzes: Online quiz is conducted in the class room on the content of the lectures conducted so far. One to two quizzes are expected to be conducted by the teacher during a semester. Quiz performance is instantly shared with the students.
- Learning material/resources are provided to the students and also made available on the university website.
- Students are also encouraged to make class interactive by having question answer sessions and by getting the doubts clarified on the spot during the lecture hour.
- In some of the courses like Software Engineering, Software Project Management, Mobile Application Development, project based learning is promoted where students are assigned projects in groups.