



SGT UNIVERSITY

SHREE GURU GOBIND SINGH TRICENTENARY UNIVERSITY
(UGC Approved)

Gurugram, Delhi-NCR

Budhera, Gurugram-Badli Road, Gurugram (Haryana) – 122505 Ph. : 0124-2278183, 2278184, 2278185

Teaching Methodologies

The academic philosophy of the Faculty of Science is student-centric. Therefore, in order to ensure that students are active participants in the teaching-learning process rather than being just passive listeners following teaching and learning methodologies are used:

- Student Interactive Session (SIS)
- Project Learning (PBL)/Experiential Learning (EL)
- Professional Activities
- ICT Pedagogical Tools
- Case Studies
- Continuous Evaluation

Student Interactive Session (SIS): To increase the student's participation in class, a traditional lecture is transformed into a student interactive session (SIS) by initiating topic-based informative discussions. In this way, the development of two-way communication makes students' progress more measurable. In addition to classroom interaction sessions, a number of seminars and expert talks are organized at departmental and faculty levels for domain-based skill enhancement as well as the overall grooming of students.

Project Based Learning (PBL)/Experiential Learning (EL): Students are being provided ample opportunities to learn through hands-on experience and showcase their research and innovation talents in the form of Scholar Projects, Synergy Projects, and Research Projects as an essential part of the curriculum for various undergraduate and postgraduate programs. Meritorious UG students are offered projects funded by the Scholar Council of the University. Further, UG and PG students are also encouraged to participate in Synergy (an annual tech fest organized by the university) to showcase their tech skills and innovative thinking. Apart from it, experiential learning is also enhanced by practical lab sessions, technical workshops, industrial training, and internships. Similarly, a six-month Research Project is mandatory for the students in most PG programs offered by FOSC.

Professional activities: Professional activities are conducted regularly (every Saturday) at the departmental and faculty level to ensure the professional grooming of the students. These include training related to PowerPoint Presentations, Group Discussions, Debates and Cracking interviews, and training sessions on Dressing Sense, Dining etiquette Body Language, etc. at professional gatherings.


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ICT Pedagogical Tools: The ICT pedagogical tools adopted at the FOSC involve the use of pre-prepared video lectures, PowerPoint presentations, and simulation-based learning assignments. For the effective delivery of knowledge, FOSC has well-equipped smart and ultra-smart classrooms along with a well-established Online Learning Management System (LMS) that has open access to all the students. Students may find all the subject-related notes, assignments, problem solutions as well as videos pertaining to the syllabi of their respective programs on their LMS accounts. FOSC also provides its students with access to different online portals such as NPTEL, Swayam, IIT Bombay and Coursera etc. These portals are well known to provide the facility of various domain related/general skill enhancement online courses for students. Apart from the above-mentioned resources, live demonstration sessions involving hands-on training workshops, seminars/expert talks, visits to advanced labs/organizations/industries that have the latest research & development facilities, and live crime scene sites (for forensic science students) are an integral part of teaching-learning process at FOSC.

Case studies: Case studies are a crucial tool for illuminating scientific theories as they let students come up with conclusive knowledge about the different aspects of scientific processes. Students at FOSC are made to perform a number of case studies related to their academic domains either as the integral or the optional part of various UG and PG programs.

Continuous evaluation: The student's performance is evaluated continuously throughout the semester for theory as well as practical classes. Evaluation for theory courses is done based on two mid-semester tests, two assignments, and surprise class tests (generally one test in a month), and in case of practical, the evaluation is based upon the performance in the experiment, internal viva-voce, and regularity in the Lab.


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

The Faculty of Commerce and Management lays great emphasis on student-centered learning. It is our philosophy as well as practice. Faculty use experiential methods to enhance the learning experiences of students. In Faculty of Commerce and Management, the lecture method is minimal, while the case method is the dominant pedagogical tool. Here, the emphasis is on experiential learning through Management Games, Films, Role Plays, and Simulations. In Faculty of Commerce and Management, the lecture is always supported by small project work and tutorial classes, characterized by problem-based learning. Some of the dominant methods of experiential learning at the Faculty of Commerce and Management are provided underneath:

Industry visit

Case method

Role plays

Simulations

Problem-solving

Field visits

Internships

There is a provision for continuous assessment and its weightage is 40%. Continuous assessment is used as learning; thus, it significantly contributes to the learning process. Students do projects both individually as well as in different groups. Many of these projects are done in a real-life setting. Hence, they conduce to authentic learning. MBA and Integrated MBA Students undergo a unique 2-month internship in various corporate. They are also encouraged to do group work, both armchair and field, based. Many teachers use blended learning, team teaching, and ICT tools like Google classroom, Piazza, Minodam, etc. to conduct their courses. The students prepare theories and principles at home and problems are discussed in the classroom. The Faculty of Commerce and Management uses Moodle – a Learning Management System (LMS) – that facilitates experiential learning and collaboration among students.

Dean, FCAM

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Teaching Methodologies



- Faculty of Physiotherapy adopts adult learning philosophy recommends the use of student centric methods like
 - interactive sessions,
 - student seminars,
 - case studies,
 - project work,
 - assignments,
 - problem-solving exercises,
 - practical field work,
 - quiz, and collaborative learning
- This method make the learning session interactive and maintains the interest of the students through out the learning process.


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Student Interactive Session



Bed Side Learning



Clinical Learning


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Practical Learning



Hands on learning



Out Reach Program


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Teaching Methodologies

Faculty of Allied Health Sciences

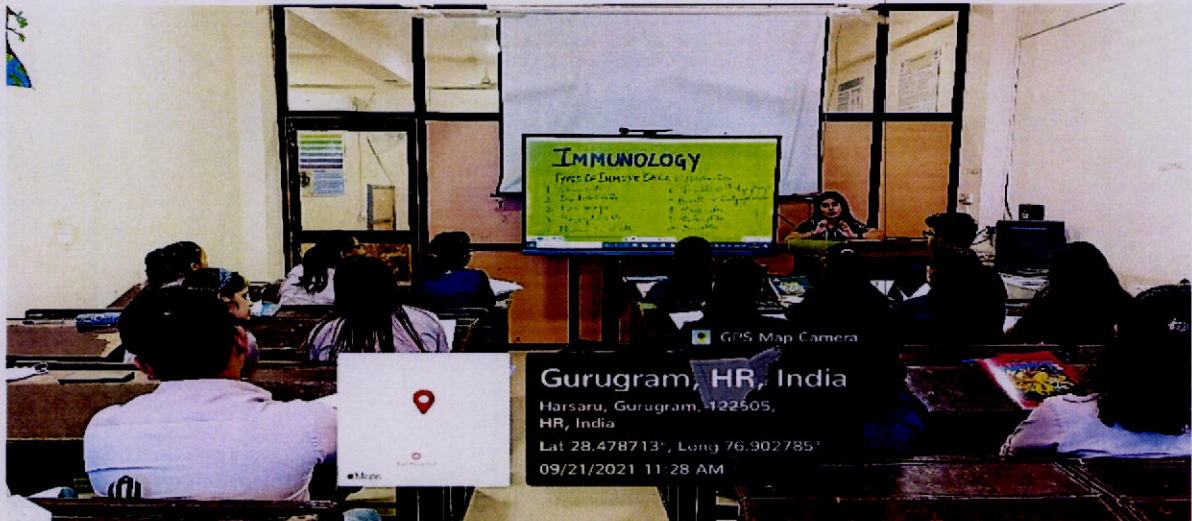
Diversity of learners in respect of their background, abilities, and other personal attributes will influence the extent of their learning.

The learner-centered education through appropriate methodologies such as:-

1. Continuous Internal assessment (CIA)- Through Assignments, Group Discussion and Seminars along with Internal Evaluation.
2. Internet Facility extended to students- To get relevant information to enhance knowledge.
3. Faculty members are constantly encouraged to use innovative teaching methods by
 - Use of ICT
 - PowerPoint Presentations
 - Models and Charts
4. Practical-based knowledge given to students by
 - Surveys
 - Industrial visit
 - Hands-on work done in laboratories
 - Exposure to patients
 - Hospital visit
 - Research Work and Dissertation
 - Internship in various relevant fields
 - Workshops
 - Clinical posting
 -

The above methods make the learning interesting and give the students an innovative thinking. Apart from this it maintains interest of the student throughout the learning process.


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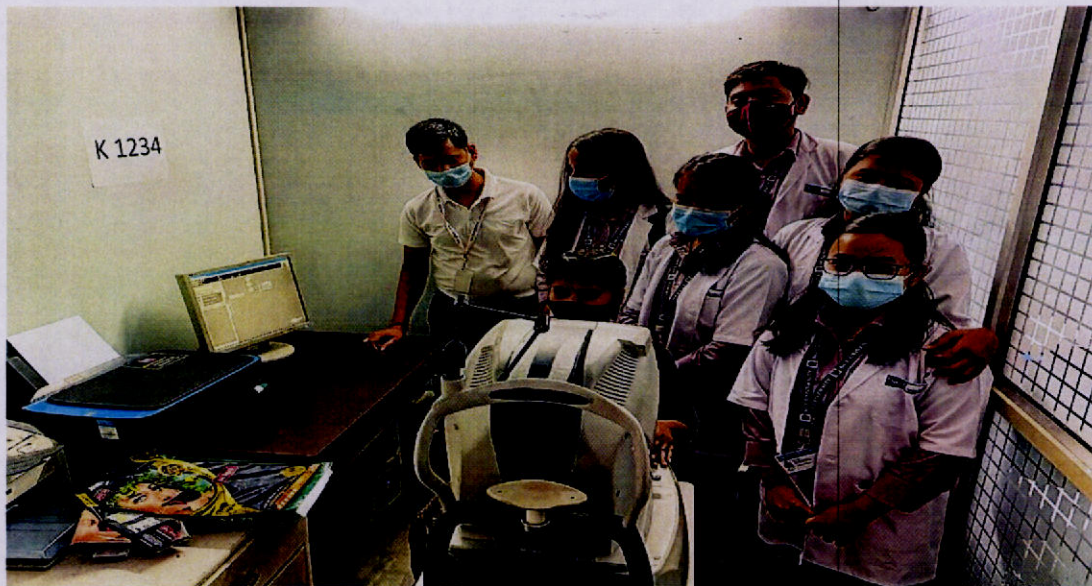


Students Interactive Session



Students Assessment learning

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Hands-on learning



Hands-on workshop



Laboratory Practices


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Women's Training Program

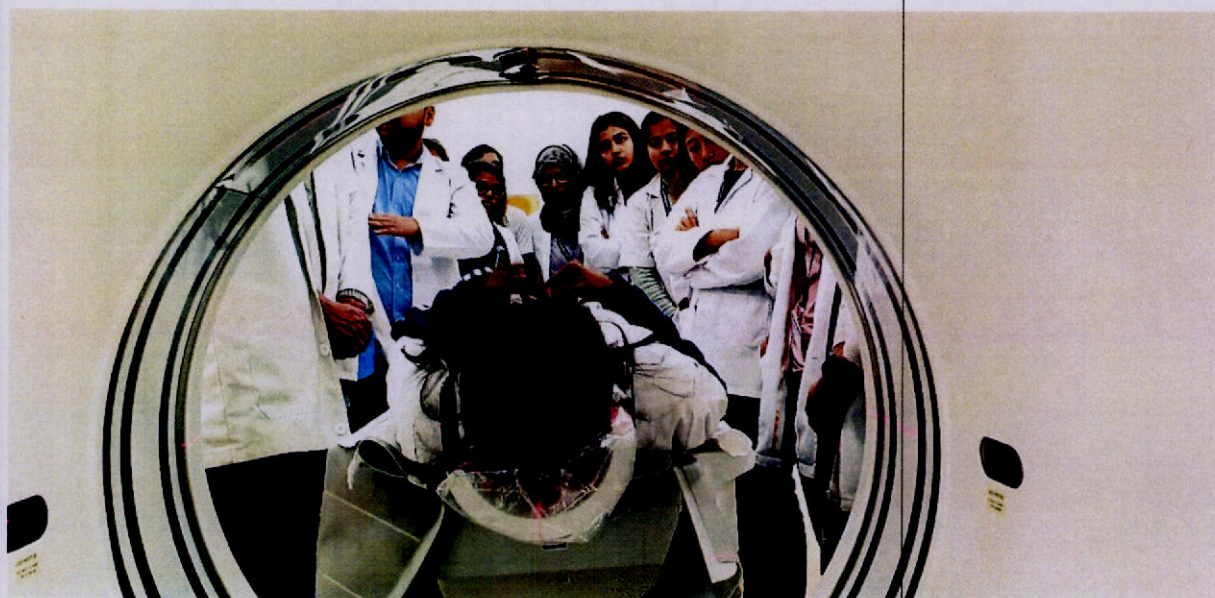


Hospital Visit

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Practical based learning



Clinical Learning



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Teaching Methodologies

Faculty of Engineering & Technology

Teaching Methodologies chosen here in our faculty focus on those aspects of classroom teaching competence that are visible to oneself and to others and thus become useful for formative evaluation for students and to lead them a successful life. It will encourage the students to develop a problem-solving skill and learn concepts instead of just absorbing facts. When components of excellence can be defined in language that details teaching actions that are confirmable performances, that is, neither minutely technical nor remotely abstract, that could investigate those actions in practice, either collaboratively or individually. For if a component can be self-perceived near the time it occurs, it can be modified or strengthened. That's how professionals, who must engage themselves in reflective practice, get better.

Even though classrooms vary in content and goals, we believe that these core set of best Practices does apply to most educational environments. Here, are few teaching methodologies followed in our faculty to achieve our goal of pertaining quality education.

- **Project Based Learning**
- **Industry Centric curriculum**
- **Hands on Sessions**
- **Classroom Discussions**
- **Student interactive sessions and Seminars**
- **Case studies & continuous and formative assessments**
- **Practical Lab Assignments**
- **Quiz and Collaborative Learning**
- **Industrial Visits**

All these processes help to make the learning sessions more interactive and maintains the interest of the students throughout the session.


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Practical Hands-on Session



Live Project Demonstration


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Expert Lectures from Industry



Industrial visit for Civil Engineering Students


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IoT Workshop Organized for CSE Students



IPR Training session


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