

Active learning and pedagogical innovations

The University and the constituent colleges continue to expand its innovation driven environment and culture based on technological /medical advances, entrepreneur mind set, and global market conditions, shifting business environment and international collaboration and expectations.

The University to drive innovation in the University has established “Center for Innovation and Entrepreneurship (CINE)”. Known as “SPARKLE (Science Promotion through Advancement of Research and Knowledge for quality of Life and Entrepreneurship)” .

The University drives its Innovation in below mentioned areas:

i). **Academic Innovation**- Starting of Innovative Programs through inter disciplinary approach.

- Starting of Innovative Academic Programs in Cognitive Sciences, Emergency Medicine, Clinical Pharmacy, Dental Implants , Oncology Pharmacy etc.,
- Establishment of inter professional education classes.
- Introduction of OSCE (Objective Structured Clinical Evaluation) and OSPE (Objective Structured Practical Evaluation).
- Flipped class room and bring you own device (BYOD) models of teaching and learning.
- The University has established a center for continuous learning and professional education (CCLPE) to support the colleges in learning and pedagogical innovation.
- With the support of this center colleges have introduced innovation for supporting education technology and learning resources which include massive open online courses (MOOC), Flipped Class room, Bring Your Own Devices, Dynamic Assessment and Learning through Events Evidences and Narration besides Mind mapping, Flashcards and Quizlets are employed.
- The Seminars, Internships, Field trainings and Projects are the part of teaching and learning process and are well supported by the University. The University has signed Strategic MoU with Industries, Research organizations and Universities to realize the same. Simulations and simulation labs support greatly the experiential learning.

ii) **Research Innovation**– Translational and Transformational Research that benefits the society.

- Centre of Excellence in Molecular Biology and Regenerative Medicine in driving research at Molecular level leading to stem cell therapies and the like.
- Centre for Clinical Research Excellence driving research in the development of new medicines through human trials.
- Centre of Relevance and Excellence in Herbal Drugs driving new drug discovery,
- National Center for Pharmacovigilance driving concerns regarding Patients Safety and Adverse Drug Reactions.
- The growth of the University is characterized inevitably by increasing degree of global integration between individuals, organizations and cultures and society. The JSS University in its strategic plan has envisaged strategic alliances for global knowledge creation, education and enlightened citizen ship. The Strategic MoU provide for
 - 1). Student and faculty mobility.

- 2). Sharing of learning resources.
- 3). Joint research programs

iii). **Technology innovation**– ICT integrated teaching and learning process.

- Online portal JSSU ONLINE and E – LEARN supporting teaching, learning and assessment – Jointly developed by in house IT Team and Faculty.
- Video assisted teaching.

IT framework called JSSU Online (www.jssuonline.com) supports active learning and pedagogical innovations. This is also one of the green initiatives of the university to realize the objective of paperless administration. The portal also caters to various needs of the researching faculty, parents of the students and the staff of the University. With this system, learning and monitoring becomes easier and efficient. Most importantly, Student-student and staff-student communication is greatly facilitated by this technology. Through this system, we are now able to deliver educational resources to our students anywhere, anytime and on any computing device. Every student undergoing the course and parents are provided with a unique user IDs. Upon logging into the website, the capabilities are available to the students. Parents can also effectively monitor the progress of their ward as the information is available on everyday basis. JSSU Online is envisaged to provide a host of capabilities around educational resource delivery in a phased manner as part of our IT Roadmap. Some of the capabilities are listed below:

1. Course Management
The complete details of the course along with study materials, digital content and additional resources are provided.
2. Time Table Schedule
The time table for the whole month is given in advance.
3. Teaching Plan
The teaching plan along with the content to be covered in the particular class is provided.
4. Teacher's Diary
The deviations in the teaching plan, if any, are reported.
5. Digital content
The course materials are made available in the following formats - .docx, .pptx, .pdf, .mp4, .mp3.
6. Student's Attendance
The attendance is marked for every class
7. Digital Content Management Course wise as per Teaching plan which also includes MCQ management toolset.
8. Online MCQs test are conducted.
9. Sessional Marks
The marks of every internal assessment conducted is available to the students.
10. E-Notice Board
Information, Notices, Circulars are provided in this section.
11. Event Showcase

Information about achievements of University/College, Important events, Upcoming events etc. are made available.

12. Feedback

Feedback on teaching-learning, facilities, innovative pedagogy etc..are collected.

13. E-Tapaal

Official notices are communicated by employing e-Tapaal -Digital communication.