

## Innovations by the Faculty in Teaching and Learning

S. No.	Name of Faculty	Name of Subject with Code	Teaching & Learning Pedagogy	Description
1	Er. Umesh Pratap Singh	KCS-303: Discrete Structure & Theory of Logic	Teaching through translation	The faculty member earlier played the video lecture of a professor from IIT and then explained the same lecture in the students' mother tongue.
2	Er. Sapna Pal	KNC-302:- Python Programming	Usage of ICT for Practical Demo	<p>(a) This subject do not contains any lab associated in the curriculum.</p> <p>(b) Therefore, the faculty used 'Google Co Lab' to show programming demos, running syntaxes, etc. for Python Programming.</p> <p>(c) This has been an interesting teaching approach for students to give them a practical learning experience simultaneously with theory.</p>
3	Dr. Raj Gaurang Tiwari	KCS-301:- Data Structure	Teaching using Role Play Model	<p>(a) Role play model has been used in this subject to teach topics like: 'Linked List'.</p> <p>(b) In this method, faculty selected students and assigned them roles as START, NODE, INFORMATION, LINK, NULL, OPERATIONS-</p>

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				<p>Insertion at beginning, Insertion as specified position, Deletion as per user's requirement, etc.</p> <p>(c) One student is made narrator to introduces about the characters and operations.</p> <p>(d) Finally the faculty concluded by discussing the concept and working of Linked List.</p>
4	Er. Nidhi Saxena	KNC-401:- Computer System Security	Teaching & Learning through Argumentation	<p>(a) During Tutorial classes faculty initiated a discussion forum about different computer viruses and their prevention techniques among students.</p> <p>(b) For this purpose, 05 min time was given to each student to make the class aware about any new or existing virus and the related security threats.</p>
5	Mr. Alok Misra	RCS-601:- Computer Network	Crossover Learning	<p>In this subject, the first unit covering study of network topologies and hardware has been covered live in the lab to make students aware about hubs, routers, switches, cables, etc.</p>

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6	Dr. Pankaj Kumar	NCS-603:- Compiler Design	Crossover Learning	In this subject, to teach topics like: 'LEX Compiler' and 'YACC Compiler' the students are taken to the lab to give them practical demo of both these compilers beyond theoretical discussion in class.