BE (Software Engineering & Management)

From 2014, School of Mathematics and Computer Applications in association with L M Thapar School of Management is starting a new four years Bachelor of Engineering degree in Software Engineering & Management. This is the first programme of its kind which offers a blend of technical insights of a software engineering and management. It will enable an engineering graduate to coherently formulate business problems, identify and apply tools to solve the problems and accordingly act as an independent executor of the technical and managerial problems. The BE (Software Engineering & Management) program will enable an engineering graduate to broaden his/her outlook pertaining to the engineering related issues in a more practical and feasible manner. This is also important considering the changing role of an engineering graduate. Industry trends reflect the changing needs of an engineer to be that of an effective decision-maker who has to manage existing infrastructure and implement new practices and new technology. Thus an engineer often becomes the manager of change within the modern organization which, in turn, requires a balanced blend of engineering domain knowledge and management skills. The BE (Software Engineering & Management) graduate will be well versed in business and management knowledge as well as their technical engineering abilities.

The BE (Software Engineering & Management) program will meet the demand for such professionals that are distinctive among engineering programs in their integration of business, management and engineering domains. In short, the program will enable graduates to have career in industrial management, high technology management, R&D management and entrepreneurship.

This programme is designed to develop entrepreneurial capabilities in students so that they become more absorbent in the industry as Techno-entrepreneurs. Apart from the core courses of engineering, students will understand various software engineering and business dynamics like Software engineering, Software Testing and Quality Management, Software Design and Construction, Software Architecture, Software Project Management, Finance, Human Resource, Operations, Social and Commercial Entrepreneurship etc.

Benefits to graduates:

- Appreciation and knowledge of software engineering and contemporary business and management issues;

- Rapid career advancement through interactive industry and research projects;

- Design solutions that are sustainable, and economically feasible; and

- Expertise of Techno-managers and Techno-entrepreneurs to develop 'strategies for growth'.