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Boasting of multi-disciplinary curriculum

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Biotech Private Schools No 1

The department of biotechnology and bioinformatics at Jaypee University of Information Technology (JUIT), Solan offers four-year BTech programs in biotechnology and bioinformatics, a dual degree five-year MTech program in biotechnology and a six-year dual degree BPharm-MPharm course. The department received close to 4,000 applications for 30 seats in BTech biotechnology.

The MTech computational biology started in 2010, received 50 applications out of which five students were admitted. The bioinformatics curriculum includes courses on algorithm design, machine learning, computational high throughput screening and drug designing, bioprograming and scripting languages.

The department is equipped with 12-15 labs providing hands-on training in various areas of biotechnology. The overall intention of strengthening research at JUIT has been to expose students to world class research and also provide an opportunity of hands on training on latest
technologies.

So far close to 134 biotech related research papers from the department have been published in national journals and about 250 research papers in international journals. The department has transferred five products to the industry in the last three years. JUIT has to its credit one patent at national level. The department has been recently awarded an institutional program support in the category of centers of excellence and innovation in biotechnology by the Department of Biotechnology. At a project cost of `8 crore, the program is a first-of-its-kind in India, wherein combination of modern approaches such as genomics, transcriptomics, proteomics, metabolomics and computational metabolic network analysis are to be used to decipher metabolic pathways involved in the production of major chemical constituents in high value medicinal herbs of India.