

List of Employability Courses		
<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
BCH21-102DCE	Biochemical Techniques	On completion of this course, the students will have enough knowledge to join the research programs or join the relevant industry in the field of molecular cell biology, genomics, and proteomics. The students will be mature enough to integrate theory with the bench. The students can develop hypotheses, craft novel research proposals and test their hypotheses and research questions on the bench. This course has a potential for employability in research laboratories, diagnostic setups and biotechnology industry.
BCH21-203CR	Laboratory Course - II	After completing this practical course, the students will be ready to plan and carry out experiments, like isolation, purification and identification of proteins, perform PAGE and SDS-PAGE protein electrophoresis, and enzyme assays (animal and plant sources). They can generate and test hypotheses, analyse data using statistical methods where appropriate, and appreciate the limitations of conclusions drawn from experimental data. The students would be able to troubleshoot the experimental challenges

		they face while doing Ph.D. or while using the skills in diagnostic setups. This course has a potential for employability in research laboratories, diagnostic setups and the biotechnology industry.
BCH21-104CR	Laboratory Course – I	This course has a potential for employability in research laboratories, diagnostic setups and biotechnology industry
BCH21-203DCE	Advanced Techniques	On completion of this course, the students will have enough knowledge to join the research programs or join the relevant industry in the field of molecular cell biology, genomics, and proteomics. The students will enough knowledge about the various molecular and cell biology methodologies e.g. protein-protein interactions, protein-DNA interactions, gene silencing and genome sequencing. In conclusion, This course has a potential for employability in research laboratories, diagnostic setups and biotechnology industry.
BCH21 –302CR	Biotechnology	On completion of this course, the students will develop the concepts of the applications of various techniques and the knowledge that we obtain in different areas like Cell

		<p>Biology, Molecular Biology, Biochemical Techniques etc. The students will have all the theoretical knowledge about gene cloning, animal and plant cell culture, production of monoclonal antibodies using hybridoma technology, antibody fragments and vaccines. Therefore, this course has a potential for employability in research laboratories, diagnostic setups and biotechnology industry.</p>
BCH 21– 401CR	Project Dissertation	<p>This course has a potential for employability in research laboratories, diagnostic setups and biotechnology industry. On completing this six months dissertation, the students will develop and defend their thesis. The thesis will be developed by the students in their respective research laboratories on novel research problems. The students will know how to implement the theoretical knowledge to execute the experiments. Eventually, this course will prepare these students to take up the research assignments in their Ph.D. programs</p>
BCH21-303CR	Laboratory Course - III	<p>After completing this practical course, the students will be ready to plan and carry out experiments,</p>

		<p>like gene cloning, cDNA synthesis, preparation of plasmids and western blotting. They can generate and test hypotheses, and analyse data. The students would be able to troubleshoot the experimental challenges they face while doing the Ph.D. or while using their skills in research in industry setups. Therefore, this course has a potential for employability in research laboratories, diagnostic setups and biotechnology industry.</p>
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