

**DEPARTMENT OF BIOTECHNOLOGY**

**BSC BIOTECHNOLOGY**

<b>INTEGRATION OF CROSSCUTTING ISSUES</b>	<b>SEMESTER</b>	<b>MODULE</b>	<b>TOPICS</b>	<b>YEAR OF IMPLEMENTATION</b>
<b>Human values</b>	V	GE1	1.Genetically Modified organisms 2. Food safety issues 3. Genome sequencing 4. Gene Therapy	From 2018-20
	VI	GE-2	1.Stem cells and regenerative medicine 2. Transgenic animals & Plants	From 2018- to 2020
	III	SEC -4	Drug Designing Pharmacogenomics	From 2019-2021
<b>Professional Ethics</b>	VI	SEC IV	Intellectual property rights	From 2018 to 2020
		PAPER-VI (Advanced)	IPR & Biosafety issues	From 2019 to 2021
	V	GE1	Patents on life Biopiracy Animal Cloning	From 2019 to 2021
<b>Gender sensitization</b>	VI	Paper- VI DSC- 3F	Biomining Biofuels	From 2018-2020
	V	PAPER- VI DSE-3E	Medical Biotechnology Prenatal diagnosis DNA finger printing	From 2018-2021
	VI	PAPER-VI Dsc-1F	Invitro fertilization Artificial insemination	From 2019 to 2021
<b>Environmental Sustainability</b>	III	Sec- I	Industrial fermentation	From 2019 to 2021
	III	SEC-I	Enzyme technology	From 2018 – 2020
	VI	DSC- 1F	1.Green House Effect & Global Warming, Climate change 2. Environment pollution prevention 3. Solid waste management 4. Waste water treatment process 5. Bioremediation	From 2019 to 2021

