

**J.J. COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
SIVAPURAM POST, PUDUKKOTTAI-622 422

**DETAILS OF ICT ENABLED TEACHING RESOURCES**

Department: <b>BIOTECHNOLOGY</b>	Academic Year: <b>2020-2021</b>
Name of the Staff: <b>Dr. G. MANIGANDAN</b>	Semester: <b>ODD</b>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
	<u>III</u> UG 5.8.20	Immunology	cells involved in immunity	PPT
	13.8.20.	)	MHC Types	PPT
	21.8.20	)	HLA Tissue Typing	Video clips
	25.8.20	)	Immunodeficiency diseases	PPT
	16.9.20.	)	Autoimmune diseases	PPT
	23.9.20.	)	Immunodiffusion	Video clips
	6.10.20.	)	Immuno electrophoresis	PPT
	20.10.20	)	Immunoflouresence	Video clips
	10.11.20.	)	Hybridoma Technology	PPT
	19.11.20	)	Production of Monoclonal antibodies	PPT
	23.11.20.	)	Inter leukins.	Video clips
	3.12.20.	)	Inter ferons.	PPT

  
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Department: <b>BIOTECHNOLOGY</b>	Academic Year: <b>2020-2021</b>
Name of the Staff: <b>Dr. V. Jayaramanathan</b>	Semester: <b>ODD</b>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
	II UG1 7.8.20	Immunology	Antibodies - Structure, types and function.	PPT
	13.8.20	"	Primary and secondary lymphoid organs.	Video clips
	9.9.20	"	Hypersensitivity	PPT
	30.9.20	"	Complement fixation	PPT
	I PG1 25.9.20	Microbiology	Sterilization- Methods.	Video clips
	7.10.20	"	Cytoplasmic membrane of Bacteria.	PPT
	21.10.20	"	Microbial respiration	PPT
	11.11.20	"	Preservation of marine microbes.	PPT
	II PG1 25.9.20	Medical and Pharmaceutical Biotechnology.	Drug dependence	Video clips
	6.10.20	"	Toxicokinetics.	PPT
	28.10.20	"	Quality control	PPT
	5.12.20	"	Pharmacotherapy of migraine.	PPT.

  
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Name of the Staff: <b>MS. P. Priyadharshini</b>	Semester: <b>ODD</b>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
	<b>I UG</b> 22.9.20	Cell Biology	Prokaryotic and Eukaryotic cells	PPT
	30.9.20	„	Structure of plasma membrane	Video clips
	6.10.20	„	Ion channels	PPT
	14.10.20	„	Mitochondria	Video clips
	4.11.20	„	cell cycle	PPT
	17.11.20	„	Principles of cell communication.	PPT
	<b>II PG</b> 7.10.20	Animal Biotechnology	Embryonic stem cells	PPT
	13.10.20	„	Transgenic animals	Video clips
	21.10.20	„	IVF - Technology	PPT
	6.11.20	„	cell culture based Vaccines.	PPT
	19.11.20	„	Human cloning	PPT
	25.11.20	„	organ transplantation	Video clips.

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Department: <b>BIOTECHNOLOGY</b>	Academic Year: <b>2020-2021</b>
Name of the Staff: <b>Mr. K. CHELLAMUTHU</b>	Semester: <b>ODD</b>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
	<u>III</u> UG 5.8.20	Organic Farming	Types of organic farming	PPT
	10.8.20	"	Green Manure	Video clips
	28.8.20	"	Crop rotations.	PPT
	7.9.20	"	Vermi composting	PPT
	25.9.20	"	Ornamental crops	Video clips
	7.10.20	"	Farm economy	PPT
	<u>III</u> UG 18.8.20	Biofertilizers	classification of Biofertilizers	PPT
	4.9.20	"	Azolla	PPT
	23.9.20	"	Azospirillum	Video clips
	8.10.20	"	Phosphate solubilization mechanism	PPT
	22.10.20	"	Mycorrhizal Biofertilizers	PPT
	5.11.20	"	VAM	PPT

  
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Department: <b>BIO TECHNOLOGY</b>	Academic Year: <b>2020-2021</b>
Name of the Staff: <b>Ms. D. Vithya</b>	Semester: <b>ODD</b>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1	III UG	Plant and Animal Biotechnology	Micro propagation	PPT
	7.8.20			
	19.8.20	"	Ti and Ri plasmids	PPT
	9.9.20	"	Transgenic plants	PPT
	18.9.20	"	Insect cell lines	Video clips
	12.10.20	"	Human Genome Project	Video clips
	29.10.20	"	Transgenic animals	PPT
2.	II PG	Environmental Biotechnology	Bioremediation	PPT
	19.8.20			
	16.9.20	"	Green House effect	Video clips
	29.9.20	"	Food chain	PPT
	9.10.20	"	Bioleaching	PPT
	19.10.20	"	Bio pesticides	PPT
	6.11.20	"	oil Biodegradation	Video clips.

  
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Department: <b>BIOTECHNOLOGY</b>	Academic Year: <b>2020-2021</b>
Name of the Staff: <b>Dr. V. Subramanian</b>	Semester: <b>ODD.</b>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
	I PG 21.9.20	Stem cells and Nano-Biotechnology	Germ line stem cells	PPT
	28.9.20	„	Types of stem cell	PPT
	7.10.20	„	stem cell therapy	PPT
	28.10.20	„	Bionano particles	Video clips
	18.11.20	„	Nano fibers	video clips
	30.11.20	„	stem cell banks	PPT
	II PG 19.8.20	Research Methodology	Research in Biological sciences	PPT
	25.8.20	„	collection of literature	PPT
	17.9.20	„	Oral and poster Presentation	Video clips
	8.10.20	„	Manuscript Preparation.	PPT
	20.11.20	„	SCI Journals	PPT
	1.12.20	„	Impact factor	PPT

  
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Name of the Staff: <b>Ms. C. Sumathi</b>	Semester: <b>ODP</b>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
	II UG 12.8.20	r-DNA technology	Plasmid Vectors	PPT
	27.8.20	"	DNA library	PPT
	24.9.20	"	Polymerase chain reaction	Video clips
	21.10.20	"	Embryonic Stem cells	PPT
	III UG 27.8.20	Medical Laboratory Technology	Organization of clinical laboratory	Video clips
	21.9.20	"	ABO grouping	PPT
	5.11.20	"	Diagnostic skin test	PPT
	I PG 19.10.20	Genetics and Molecular Biology	Concept of gene	PPT
	29.10.20	"	DNA replication	PPT
	12.11.20	"	Ribozymes.	Video clips
	25.11.20	"	Genetic code	PPT
	2.12.20	"	'Lac' operon.	PPT

  
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Name of the Staff: <b>Dr. L. Vivekanandan</b>	Semester: <b>ODD</b>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
	I UG 17.9.20	Biochemistry	chemical Bonds	PPT
	28.9.20	"	Free energy	PPT
	6.10.20	"	Biomolecules	Video clipings
	23.10.20	"	Enzyme kinetics	PPT
	I PG 31.8.20	Biochemistry	pH determination	PPT
	11.8.20	"	Gluconeogenesis	PPT
	7.10.20.	"	TCA cycle	Video clipings
	13.11.20.	"	Industrially important enzymes	PPT
	II PG 11.8.20	Plant Biotechnology	Proto plast culture	PPT
	17.09.20	"	Edible vaccine	PPT
	8.10.20	"	Golden rice	PPT
	6.11.20	"	GM crops	PPT

  
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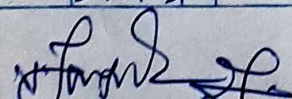


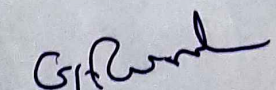
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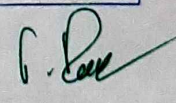
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Department: <b>BIOTECHNOLOGY.</b>	Academic Year: <b>2020-2021</b>
Name of the Staff: <b>Dr. V. Jayasamanathan.</b>	Semester: <b>EVEN.</b>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	III UG.	Industrial Biotech.	Microbial Growth kinetics. 6.1.21.	PPT
			Bioreactor. 18.1.21.	PPT
			Types of Bioreactor - tank, Photo. paced- Bed, tower. 20.1.21	PPT
			Design of Bioreactor. 29.1.21	PPT
			Downstream process. 9.2.21.	PPT
I	M.Sc.	Immunology & Immunotechnology	Structure of Immune - cells. 20.1.21.	PPT
			Complement pathway 4.2.21	video clips.
			Immuno suppressive therapy. 16.2.21	PPT.
II	M.Sc.	Genomics & Proteomics	Genome Mapping.	PPT.
			Sequence database. 11.1.21	video clips.
			Gene prediction. 19.1.21	PPT
			Protein Structure 29.1.21	PPT

  
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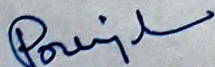


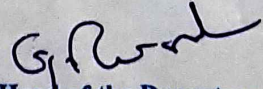
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Name of the Staff: <u>P. Priyadharsini.</u>	Semester: <u>Even.</u>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
	<u>I. B. Sc.</u> <u>5.1.21.</u>	<u>Genetics</u> <u>molecular Biology.</u>	<u>Gene structure.</u>	<u>PPT</u>
	<u>12.1.21</u>		<u>DNA. Replication.</u>	<u>video clips.</u>
	<u>18.1.21</u>		<u>Transcription modifi-</u> <u>-cation.</u>	<u>video clips.</u>
	<u>25.1.21</u>		<u>Gene regulation.</u>	<u>PPT</u>
	<u>1.2.21</u>		<u>Quint chromosome</u>	<u>PPT</u>
	<u>8.2.21</u>		<u>DNA repair mechanism</u>	<u>video clips.</u>
	<u>10.3.21</u>		<u>Gene transfer methods.</u>	<u>PPT</u>

  
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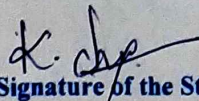


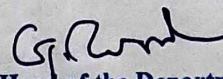
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Department: <b>BIOTECHNOLOGY.</b>	Academic Year: <b>2020 - 21</b>
Name of the Staff: <b>K. CHELLAMUTHU</b>	Semester: <b>Even</b>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	I. B. Sc.	Environmental Science.	Types of Ecosystem.	PPT
	4.1.21		Biodiversity.	video clips
	7.1.21		Types of Pollution.	video clips
	11.1.21		Solid waste management	video clips.
	22.1.21.		Environmental Ethics.	PPT
	3.2.21		Public awareness.	PPT
	16.2.21		Population growth.	PPT
	3.3.21		Case studies.	PPT
	10.3.21			

  
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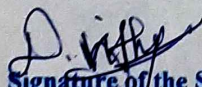


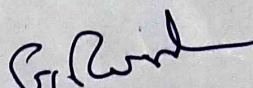
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Name of the Staff: <u>D. Vithya</u>	Semester: <u>Even</u>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	<u>B.Sc.</u> <u>7.1.21</u>	<u>Food Techno-logy</u>	<u>Food Industry.</u>	<u>PPT</u>
	<u>12.1.21</u>		<u>Fermentation products</u>	<u>PPT</u>
	<u>19.1.21</u>		<u>Food Processing.</u>	<u>PPT</u>
	<u>25.2.21</u>		<u>Food Packaging.</u>	<u>PPT</u>
	<u>16.2.21</u>		<u>value added food products</u>	<u>video clips</u>
2.	<u>I.M.Sc</u> <u>7.1.21</u>	<u>Food &amp; Industrial BT</u>	<u>Food Preservation &amp; packaging</u>	<u>video clips.</u>
	<u>10.2.21</u>		<u>Bioreactors.</u>	<u>PPT</u>
	<u>16.2.21</u>		<u>Types of reactors.</u>	<u>PPT</u>
	<u>23.2.21</u>		<u>DownStream processing</u>	<u>PPT</u>
	<u>2.3.21</u>		<u>Microbial products.</u>	<u>PPT</u>
	<u>9.3.21</u>		<u>SCP.</u>	<u>PPT</u>
	<u>25.3.21</u>		<u>Production of Beverages.</u>	<u>PPT</u>

  
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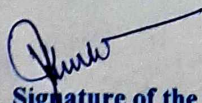


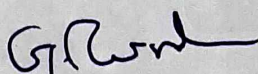
**J.J. COLLEGE OF ARTS AND SCIENCE (AUTONOMOUS)**  
SIVAPURAM POST, PUDUKKOTTAI-622 422

**DETAILS OF ICT ENABLED TEACHING RESOURCES**

Department: <b>BIOTECHNOLOGY</b>	Academic Year: <b>2020-21</b>
Name of the Staff: <b>Dr. V. Subramaniam</b>	Semester: <b>Even</b>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	I. B.Sc	Microbiology	Plating techniques	PPT
	11.1.21			
			Staining techniques	PPT
	18.1.21			
			Classification of microbes	video clips
	3.2.21			
			Bacteria structure	video clips
	9.2.21			
			Pathogenicity	PPT
	3.3.21			
2.	III. B.Sc.	Biostatistics Bioinformatics Bioethics & IPR	Classification of DATA	PPT
	19.1.21			
			Graphical representation	PPT
	29.1.21			
			Protein sequence data base	PPT
	9.2.21			
			IPR - Patents & copyrights	PPT
	3.3.21			
3.	II. M.Sc.	Genomics & Proteomics	Protein classification	PPT
	28.1.21			
			Protein structure prediction tools	PPT
	11.2.21			
			Phylogenetic tree	PPT
	17.3.21			

  
Signature of the Staff

  
Head of the Department

  
Principal

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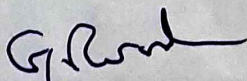
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**DETAILS OF ICT ENABLED TEACHING RESOURCES**

Department: <b>BIOTECHNOLOGY.</b>	Academic Year: <b>2020-21</b>
Name of the Staff: <b>Ms. C. Sumathi.</b>	Semester: <b>Even.</b>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	B.Sc.	Environmental Biotech.	Ecological pyramids & recycling	Video clips.
	8-1-21			
	29-1-21		Biotic community.	PPT
	8-2-21		Types of Pollution.	PPT
	24-2-21		Global Environmental problems	PPT
2.	I.M.Sc.	Bioinstrumentation	TEM & SEM.	PPT
	8-1-21			
	12-1-21		Chromatography.	Video clips.
	29-2-21		Spectroscopy.	PPT
	3-3-21		SDS-PAGE	PPT
	10-3-21		PFGE	PPT
3.	I.M.Sc.	Genetic Engineering	cDNA library.	Video clips.
	11-2-21			
	25-2-21		Blotting techniques.	Video clips.
	10-3-21		DNA fingerprinting.	PPT

  
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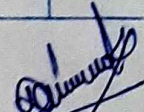


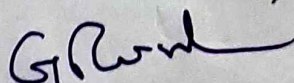
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**DETAILS OF ICT ENABLED TEACHING RESOURCES**

Department: <u>BIOTECHNOLOGY</u>	Academic Year: <u>2020-21</u>
Name of the Staff: <u>Dr. L. Vivekanandan.</u>	Semester: <u>Even.</u>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	I. B. Sc.	Microbiology.	Structure of microbes	PPT
	7.1.21.			
	19.1.21		TEM & SEM.	PPT
	2.2.21.		Types of media.	PPT
	16.2.21.		Kreb's cycle.	video clips.
	II. B. Sc.	Plant Biotech.	Organogenesis	video clips.
	15.2.21			
	23.2.21		Somatic hybridiza-tion.	PPT
	3.3.21		Mechanism of DNA Trans-fer.	PPT
	10.3.21		Therapeutic protein.	P.P.T.
	24.3.21.		Antisense Technology.	video clips.
	III. Sc.	Bioinstrumenta-tion.	TEM & SEM.	PPT
	24.2.21			
	3.3.21.		HPLC & GC.	PPT
	15.3.21		Electrophoretic Techniques.	PPT

  
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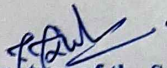


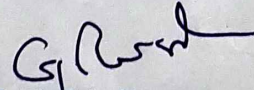
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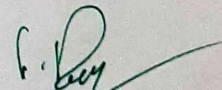
**DETAILS OF ICT ENABLED TEACHING RESOURCES**

Department: <b>Biotechnology</b>	Academic Year: <b>2020-21</b>
Name of the Staff: <b>Ms. M. Maheswari</b>	Semester: <b>Even</b>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	I. B.Sc.	Genetics & Molecular Biology.	Crossing over.	Video clips.
	8.2.21		Structure of DNA.	PPT
	12.2.21		Gene regulation.	PPT
	24.2.21		The Holiday model.	PPT
	4.3.21		Replication of DNA.	Video clips.
	11.3.21		Methods of Gene Transfer	PPT
	24.3.21		Pedigree Analysis	PPT
2.	II. B.Sc.	Marine Biotech.	Economically Important marine organism.	PPT
	10.3.21		Marine Toxins.	PPT
	12.3.21		Oil spillage.	PPT
	16.3.21		Shrimps disease.	PPT
	18.3.21		Biodegradation of Pesticides & Heavy metals.	PPT
	23.3.21			

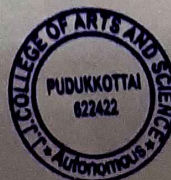
  
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**DETAILS OF ICT ENABLED TEACHING RESOURCES**

Department: <u>BIOTECHNOLOGY.</u>	Academic Year: <u>2020-21.</u>
Name of the Staff: <u>Ms. M. Sakthipriya.</u>	Semester: <u>Even.</u>

S.No.	Programme	Course	Date and Topic	Type of Tool(s) used
1.	II. B. Sc.	Plant Biotech.	Organogenesis	PPT
	12.2.21.		Protoplast culture	PPT
	16.2.21.		Synthetic seed.	PPT
	25.2.21.		Protoplast culture & fusion.	PPT
	5.3.21		Transgenic plants	Video clips.
2.	II B. Sc.	Marine Biotech.	Marine toxins.	PPT
	11.3.21		Oil & waste degradation	PPT
	23.3.21		Water quality Management	Video Clips
	3.3.21		Algal blooms.	PPT
	10.3.21.		Marine organism disease.	PPT
	12.3.21.		Immunostimulants	PPT
	16.3.21.		Fishes disease.	PPT
	25.3.21.		Transgenic fishes.	PPT
	29.3.21.			

M. Sakthipriya  
Signature of the Staff

G. Parand  
Head of the Department

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