

Tuljabhavani Mahila Mandal's

#### Hemuji Chandele College, Shelgaon (R),

Tal. Barshi, Dist. Solapur (Maharashtra) 413222



### Department of Computer Science Year - 2023-2024

#### **CROSS CUTTING ISSUES**

Sr.No Paper No.		Name of course	Class	Activity
	III	Introduction to web design	B.sc. I	Lecture
2	VI	Software Engineering	B.sc.II	Lecture
4	1	Computer Fundamental	B.sc.I	Lecture on Green IT And Recycle ,e- waste and reuse
5	VI	Data Structure	B.sc.II	Lecture
	11	Web Technology	B.sc.I	Lecture

SUTWAJE J. R.

SIGN OF HOD



PRINCIPAL

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Hemuji Chandele Gollege Shelgaon (R)

Tal-Barshi, Dist-Solapur





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## Department of physics

1.3.1 crosscutting issues relevant to professional ethics, gender, human values, environment an sustainability into the curriculum

B.Sc -I and II (2023-24)

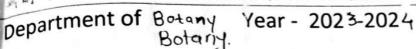
Sr.n	textbook prescribed for curriculum	Gend er relate d topics	Environmenta and sustainability topics	Huma n values topics	Professuibak ethics topics
1	Mechanics and properties of matter		• Surface tension		Viscosity and Fluid dynamics (Bernoulli theorem and applications )
2	Optics				• Optical instruments • Laser
3	General physics, heat and sound		<ul><li>Thermodynami cs</li><li>Refrigerator</li></ul>		<ul> <li>Liquification</li> <li>n of gases</li> <li>Heat</li> <li>engines</li> </ul>
	Electronics				Electronic devices
	Heat and thermodyna mics		• Heat		<ul><li>Sound</li><li>Elasticity</li></ul>
	Electricity magnetism and basic electronics				Electronic instruments

Optics		<ul><li>Resolving power</li><li>Optical</li></ul>
Modern physics	Theory of relativity Nuclear energy sources	fibres
Dolore Princip		Zivanka
Hemuji Chande Shelgaon(R) Tak-pars	ele Coflege	Head Department of Physics
The Igoon (17)		Head of the Department Physics

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**CROSS CUTTING ISSUES** 

Paper No.	Name of course	Class	Activity
1	Microbiology	B.sc. I	Lecture
1	Phycology	B.sc. I	Lecture
	Fungi	Bsc I	
III	Plant communities, Ecosystem & Ecological succession	3sc I	Lecture
IV	Angiosperms	Bsc I	Lecture
VI	Plant growth regulators	B.sc. II	Lecture
VII	Photosynthesis	B.sc. II	Lecture
VIII	Pollination and fertilization	B.sc. II	Lecture

Tachav P.P ead of the Department Botany Principal
Hemuji Chandele Coilege
Shelgaon(R) Tal-Barshi Dist-Solapur

#Education is a ladder to gather fruits of knowledge
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## **DEPARTMENTMENT OF MICROBILOGY**

#### CROSS CUTTING ISSUES

Sr.no.	Paper	Name of course	Point	Class	Activity
	no.		G. Lamont system	B.Sc.III	Lecture
	XI	Immunology	Complement system  Mutation in bacteria	B.Sc.III	Lecture
	XII	Microbial genetics Environment microbiology	Marine Microbiology	B.Sc.III	Lecture
	1	Introduction microbiology	Industrial Fermentation media	B.Sc.I	Lecture
	II	Basic techniques in microbiology	Microscope	B.Sc.I	Lecture
	VII	Medical microbiology	Immunity	B.Sc.II	Lecture
	X	Agriculture Microbiology	Composting	B.Sc.III	Lecture
	VI	Bacterial genetics	Molecular biology	B.Sc.II	Lecture
	v	Bacterial cytology and physiology	Environmental factor	B.Sc.II	Lecture on plant one tree by each student in their house

Mead of the Department Microbiology

Principal
Hemuji Chandele Coilege
Shelgaon(R) Tal-Barshi Dist-Solat





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# **Department of Mathematics**

1.3.1 crosscutting issues relevant to professional ethics, gender, human values, environment an sustainability into the curriculum

#### B.Sc -I and II

	Algebra	<ul> <li>Matrices</li> <li>Application of linear equation</li> </ul>	Matrices     Linear Eqation
2	Calculus	quation	Differentiation
3	Geometry		<ul> <li>Plane</li> <li>Sphere</li> <li>Change of Axis</li> </ul>
4	Differential Equation		<ul> <li>Differential Equation of first order and first degree(I&amp;II)</li> <li>Linear Differential Equation with constant coefficient(I&amp;II)</li> </ul>
5	Differential Calculus		<ul> <li>Tangent &amp; Normal</li> <li>Curvature</li> <li>Jacobian</li> <li>Maxima &amp; Minima</li> </ul>
	Laplace Transform		<ul> <li>Laplace transform</li> <li>Inverse Laplace         Transform         Application of Laplace         Transform     </li> </ul>
200	Differential Equation		<ul> <li>Differential Equation         First and higher than             first order         </li> <li>Total differential</li> </ul>