



**Mathematics Practical  
[CORE COURSE]**

<b>Semester: I</b>	<b>Credits:1.5</b>	<b>Subject Code: BSP12010</b>	<b>Lectures: 36</b>
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<b>Course Outcomes:</b>
<b>At the end of this course, the learner will be able to:</b>
<ul style="list-style-type: none"><li>• Construct a solid foundation in the field of programming handling various mathematical concepts using 'C' Programming.</li><li>• Write C- Programs more efficiently with the help of various mathematical problems.</li></ul>

<b>Unit 1: Practical 1</b>	<b>4</b>
<ul style="list-style-type: none"><li>• C- Program Sorting of points w.r.t an oblique line in the plane.</li></ul>	

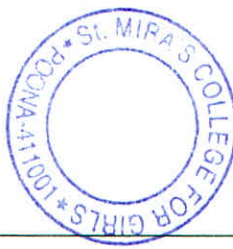
<b>Unit 2: Practical 2</b>	<b>4</b>
<ul style="list-style-type: none"><li>• C- Program<ul style="list-style-type: none"><li>○ Intersection of two line segments.</li></ul></li></ul>	

<b>Unit 3: Practical 3</b>	<b>4</b>
<ul style="list-style-type: none"><li>• C- Program<ul style="list-style-type: none"><li>○ Area of convex polygon.</li></ul></li></ul>	

<b>Unit 4: Practical 4</b>	<b>4</b>
<ul style="list-style-type: none"><li>• C- Program<ul style="list-style-type: none"><li>○ Problems based on Euclidean Algorithm. (Find GCD and using GCD formula find LCM)</li></ul></li></ul>	

<b>Unit 5: Practical 5</b>	<b>4</b>
<ul style="list-style-type: none"><li>• C- Program<ul style="list-style-type: none"><li>○ Problems based on Fermat's Theorem.</li></ul></li></ul>	

<b>Board Of Studies</b>	<b>Name</b>	<b>Signature</b>
Chairperson (HoD)	Ms. Gitanjali Phadnis	<i>G.M. Phadnis</i>



<b>Unit 6: Practical 6</b>	<b>4</b>
<ul style="list-style-type: none"> <li>• C- Program               <ul style="list-style-type: none"> <li>○ Sorting of points w.r.t rectangle whose sides are parallel to the coordinate axes..</li> </ul> </li> </ul>	

<b>Unit 7: Practical 7</b>	<b>4</b>
<ul style="list-style-type: none"> <li>• C- Program               <ul style="list-style-type: none"> <li>○ Sorting of points w.r.t. parallelepiped whose sides are parallel to the co- ordinate axes</li> </ul> </li> </ul>	

<b>Unit 8: Practical 8</b>	<b>4</b>
<ul style="list-style-type: none"> <li>• C- Program               <ul style="list-style-type: none"> <li>○ Sorting of points w.r.t a convex polygon.</li> </ul> </li> </ul>	

**Mini Project.**

Board Of Studies	Name	Signature (in white cell)	
Chairperson (HOD)	Ms. Gitanjali Phadnis	<i>G.M. Phadnis</i> 01/08/2020	
Faculty	Ms. Vrushali Paranjpe		<i>V. Paranjpe</i> 11/8/2020
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Subject Expert (Outside SPPU)	Dr. Prashant Malavadkar		<i>P. Malavadkar</i> 01-08-2020
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Industry Expert	Mr. Anup Manakeshwar		<i>A. Manakeshwar</i> 01-08-2020
Alumni	Ms. Jyoti Sharma	<i>Jyoti</i> 01/08/2020	

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