

# **Mahatma Gandhi College, Iritty**

## **P.G. Department of Mathematics**

### **Bridge Course**

A bridge course on the fundamentals of Differentiation and Integration was conducted by Second M.Sc students for the first year B.Sc. Students. The course aimed to fortify students with the Mathematical Foundation. The differentiation segment covered differentiation rules, differentiation by substitution, by parts etc. In the integration section, emphasis was on techniques, definite and indefinite integrals. MSc mentors facilitated a collaborative learning environment, addressing queries and doubts effectively. The course enhanced participants' grasp of calculus, nurturing their analytical skills for further studies. Overall, the bridge course successfully bridged the gap between MSc and BSc levels, fostering a stronger Mathematical base for first year students

<b>Date</b>	<b>Student Teacher</b>	<b>Number of Students attended</b>	<b>No. of Hours</b>
01.08.2023	Dhrisya K	17	1
02.08.2023	Dhrisya K	17	3
	Adithya Pradeep		
	Ardra K		
	Namitha T		
03.08.2023	Kadeeja Nihala	18	2
	Diya T		
04.08.2023	Krishnendu	18	4
	Soorya K M		
	Anjana K		
07.08.2023	Akshaya Krishnan	18	3
08.08.2023	Dhrisya K	18	3
09.08.2023	Miduna Chandran	14	5
	Anupriya V K		
10.08.2023	Dhrisya K	13	4
	Anjana K		
	Akshaya Krishnan		

## **Basics of Differentiation and Integration**

No. of Contact hours : 20

### **Unit I (10 hrs)**

Text Book: Differential Calculus, Shanti Narayanan and P.K. Mittal

Derivatives of Standard functions, Rules of differentiation, parametric Differentiation

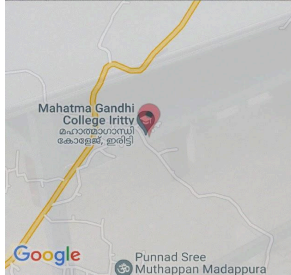
Sections- 4.3 to 4.10

### **Unit II (10 hrs)**

Text Book: Integral Calculus, Shanti Narayanan and P.K. Mittal

Quick Review of basic integration

Sections- 8.1 to 8.5



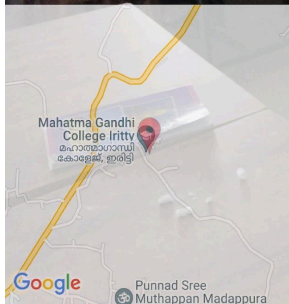
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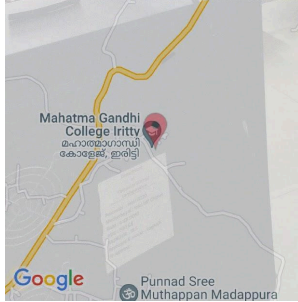
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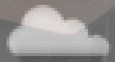
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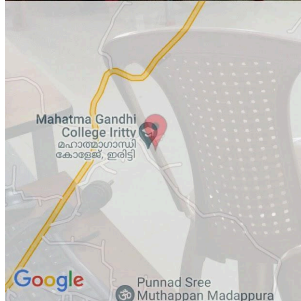


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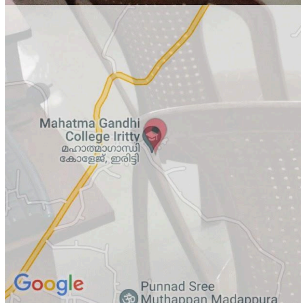


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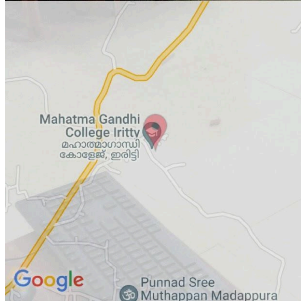
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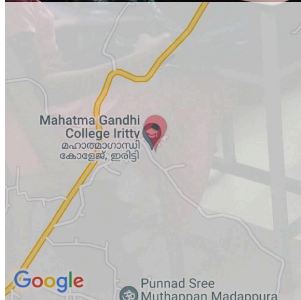


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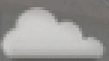




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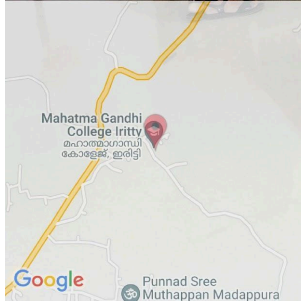
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