



# FATIMA COLLEGE

(Autonomous)

*Affiliated to Madurai Kamaraj University*  
*Re-Accredited with 'A++' (CGPA 3.61) by NAAC (Cycle - IV)*  
Mary Land, Madurai - 625018, Tamil Nadu

## PROBLEM SOLVING METHODOLOGIES

The Students of Fatima College are exposed to a variety of learning experiences. All departments organized sessions and programmes both online and face-to-face for students that form part of **experiential learning, participative learning and problem-solving methodologies**. Subject Experts are roped in and this gives added knowledge to the students. The joy of learning and involvement of students is evident in these kinds of learning experiences.

## DEPARTMENT OF CHEMISTRY

- **PG & UG students are taking different concepts for their case studies and doing their projects every year.**
- **II PG students are doing Major level projects**
- **I UG students are doing value education projects**
- **II UG students are doing Environmental education projects**
- **III UG students are doing Major level projects**



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## • Details of II PG students Projects

Program me Name	Program me Code	List of students undertaking field projects / internships / student projects	Students Register Number	Title of the field projects / internships / student projects	Address
PG	PSCH	ABHISEKA S	2022MSCC 01	A Novel Chelating Chemosensor for the Detection of Toxic Cd <sup>2+</sup> Ion- A Greener Approach	Fatima College, Madurai- 625 018.
PG	PSCH	AKILA S	2022MSCC 02	Fabrication of Proton Conducting Primary Battery with Biomaterial (Cassia Auriculata) and ammonium Nitrate based Membrane as an Electrolyte	Material Science Centre, 7A Veera Bharathi ar Lane South Gate, Keelavas al, Madurai- 625001
PG	PSCH	ARUL SHILPA A	2022MSCC 03	Fabrication of Primary Proton Battery using Cassia Auriculata (Aavaram poo) based Membrane as an Electrolyte	Material Science Centre, 7A Veera Bharathi ar Lane South Gate, Keelavas al, Madurai- 625001
PG	PSCH	ARULSNEHA A	2022MSCC 04	Fabrication of Primary Proton Battery using Cassia Auriculata (Aavaram poo) based	Material Science Centre, 7A Veera Bharathi ar Lane South Gate,



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				Membrane as an Electrolyte	Keelavas al, Madurai-625001
<b>PG</b>	PSCH	DELICIA A	2022MSCC 05	Fabrication of Primary Lithium Ion Conducting Battery using Cassia Auriculata (Aavaram Poo) as Biomaterial based Electrolyte	Material Science Centre, 7A Veera Bharathi ar Lane South Gate, Keelavas al, Madurai-625001
<b>PG</b>	PSCH	DEVIKA M	2022MSCC 06	Fabrication of Primary Lithium Ion Conducting Battery using Cassia Auriculata (Aavaram Poo) based Membrane as an Electrolyte	Material Science Centre, 7A Veera Bharathi ar Lane South Gate, Keelavas al, Madurai-625001
<b>PG</b>	PSCH	INFANT NATALIA J	2022MSCC 08	Development of Novel Organic Ligand for Sensing Application	Fatima College, Madurai-18.
<b>PG</b>	PSCH	KANISIOUS MARY J	2022MSCC 09	Synthesis and Characterizati on of Copper (II) Complex Containing Schiff Base Ligand and its Biological Activities	School of Chemistr y, Madurai Kamaraj Universit y, Madurai-625 021
<b>PG</b>	PSCH	KARTHIKA R	2022MSCC 10	Synthesis and Characterizati on of Copper (II) Complex Containing Schiff Base Ligand and	School of Chemistr y, Madurai Kamaraj Universit y,



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				its Biological Activities	Madurai-625 021
<b>PG</b>	PSCH	KAVIYA G	2022MSCC 11	A Novel Chemosensor for Selective Sensing of Pd (II) Ion-A Fluorescent Study	Fatima College, Madurai-625 018.
<b>PG</b>	PSCH	MEERA SOWMIYA N	2022MSCC 12	A Novel Schiff Base Ligand-Greener Approach	Fatima College, Madurai-625 018.
<b>PG</b>	PSCH	PRIYADHARSHINI S	2022MSCC 14	Fabrication of Primary Magnesium Ion Conducting Battery using Cassia Auriculata (Aavaram Poo)-Biomaterial based Membrane as an Electrolyte	Material Science Centre, 7A Veera Bharathi ar Lane South Gate, Keelavas al, Madurai-625001
<b>PG</b>	PSCH	RAMYA R	2022MSCC 15	Fabrication of Primary Lithium Ion Conducting Battery using Cassia Auriculata (Aavaram Poo) based Membrane as an Electrolyte	Material Science Centre, 7A Veera Bharathi ar Lane South Gate, Keelavas al, Madurai-625001
<b>PG</b>	PSCH	RESHMA V	2022MSCC 16	The Influence of Green Inhibitor on Carbon Steel Corrosion Behaviour in Simulated Concrete Pore Solution Prepared in Well Water	G. T. N. Arts and Science College, Dindigul-624 005



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<b>PG</b>	PSCH	SAKTHI PANDIMEENA N	2022MSCC 17	Construction of Primary Zinc-Ion Conducting Battery using Cassia Auriculata (Aavaram poo) as Biomaterial based Electrolyte	Material Science Centre, 7A Veera Bharathi ar Lane South Gate, Keelavas al, Madurai- 625001
<b>PG</b>	PSCH	SHANMUGAPRIYA M	2022MSCC 18	Synthesis and Spectral Analysis of 4,6-o- Protected Butylidene N- Glycosyl Imines	Fatima College, Madurai- 625 018.
<b>PG</b>	PSCH	SNEKA M	2022MSCC 19	Synthesis and Characterizati on of 4,6-o- Protected Butylidene N- Glycosyl Imine	Material Science Centre, 7A Veera Bharathi ar Lane South Gate, Keelavas al, Madurai- 625001
<b>PG</b>	PSCH	SOUNDARYA G	2022MSCC 20	6-Formyl Indole based Schiff Base Ligand-A Biological Study	Material Science Centre, 7A Veera Bharathi ar Lane South Gate, Keelavas al, Madurai- 625001
<b>PG</b>	PSCH	SUDARSORNALAKS HMI K	2022MSCC 21	Construction of Primary Sodium Ion Conducting Battery using Biomaterial	Material Science Centre, 7A Veera Bharathi ar Lane



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				Cassia Auriculata based Solid Membrane as an Electrolyte	South Gate, Keelavasal, Madurai-625001
<b>PG</b>	PSCH	UDHAYA PRIYA S	2022MSCC 22		Material Science Centre, 7A Veera Bharathiar Lane South Gate, Keelavasal, Madurai-625001
<b>PG</b>	PSCH	BRINDHA K	2022MSCC 23	Isatin and Its Derivatives-A Computational Study	Fatima College, Madurai-625 018.

## • II UG - Environmental Education Projects

S. No.	Reg. No.	Name	Title
1	2022C01	ABINAYA SRI S	Global Warming
2	2022C03	AKILA P	Global Warming
3	2022C05	ANUSANTHALIKA D	Global Warming
4	2022C06	AROCKIA CHRISTINA V	Global Warming
5	2022C07	ATCHAYA DHARSHINI M	Global Warming
6	2022C09	BHUVANESHWARI S	Climate Changes
7	2022C10	DHANYA SHREE M	Climate Changes
8	2022C11	DIVYA M	Climate Changes
9	2022C12	FATHIMA ZOHARA R	Climate Changes
10	2022C14	GOKILA M	Climate Changes
11	2022C15	INFANT JESLY S	Endangered Animals & Its Impacts
12	2022C17	JERLIN REEGA Y	Endangered Animals & Its



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			Impacts
13	2022C19	JOAN LITY INFANTA A	Endangered Animals & Its Impacts
14	2022C20	JOSEPHINE TERESA X	Endangered Animals & Its Impacts
15	2022C21	KALAIARASI K	Endangered Animals & Its Impacts
16	2022C22	MARIA FENISIYA P	Endangered Birds and Its Impact
17	2022C23	MEENALOSINI A	Endangered Birds and Its Impact
18	2022C24	OVIYA S	Endangered Birds and Its Impact
19	2022C25	PANDIMEENA T	Endangered Birds and Its Impact
20	2022C26	PAVITHRA R	Endangered Birds and Its Impact
21	2022C27	PRIYADHARSHINI M	Alternative Sources of Fossil Fuels
22	2022C28	RAMYA M	Alternative Sources of Fossil Fuels
23	2022C31	RIZWANA A	Alternative Sources of Fossil Fuels
24	2022C32	ROHINI CM	Alternative Sources of Fossil Fuels
25	2022C34	SAKANA SRI K J	Impact of Sea Level Increasing
26	2022C36	SANDHIYA P	Impact of Sea Level Increasing
27	2022C40	SUCHITHRA BENATICTA S	Impact of Sea Level Increasing
28	2022C41	TANSILA A	Impact of Sea Level Increasing
29	2022C42	THIRUMALAR S	Deforestation and Reforestation
30	2022C43	VANITHA J	Deforestation and Reforestation
31	2022C44	VARSHINI S	Deforestation and Reforestation
32	2022C45	SRINITHI S	Deforestation and Reforestation
33	2022C46	JAYASHREE I	Deforestation and Reforestation

- **III UG Final year Project - All the III UG Final year students have done the project during Academic year 2023 – 2024.**





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## DEPARTMENT OF ZOOLOGY

- **Student Research Projects** are mandated for both UG and PG that improve analytical thinking to solve research problems
- **Problem-solving aptitude** is enhanced by solving mathematical problems related to life sciences (Evolution, Genetics, Bioinformatics, Biostatistics), statistical analysis of data, problem sets related to life sciences
- In papers like Biostatistics, Research Methodology and Value-Education, Peer-Group learning, Case study analysis, Problem-solving methodologies, ICT-enabled learning, and Participative learning are entertained.







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**Students of I B.Sc. Zoology involved in discussing a case study through skit during value education classes**



**Students of I B.Sc.Zoology actively involved in group discussions as a part of the Value Education course.**

## DEPARTMENT OF BBA

### Case Studies:

The students are trained to discuss the cases in small groups and develop analytical thinking and to present the findings to the common class. The chairmanship should be rotated among the students. This is to develop conference leadership. They should also be trained to write case reports. This helps to make the students get into the habit of diagnosing problems, analysing and evaluating alternatives and formulating workable plans of actions through classroom participation and discussion.



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## **AREA OF CASES DEALT:**

Organisational Behaviour, Marketing Management, Business Communication. Fundamentals of Management, Human Resource Management, Operations Management, Services Marketing, Business Law, International Business Management & Strategic Management.

## **Group Discussion:**

Group discussion is a prevalent tactic used as an important tool for personality assessment. This technique is proved to be highly efficient to gauge the basic traits of the students. A group of students is made to sit together, in a way that they can have an interaction and discussion on the following topics.

Fundamentals of Management, Soft Skills Development, Organisational Behaviour, Marketing Management, Financial Services, Essentials of communicative Skills, Human Resource Management, Operations Management, Services Marketing, Business Law, International Business Management & Strategic Management, Interpersonal skills and Team Building, Leadership Skills & Psychological Inputs for Self Development.

## **Employability Skills I and II:**

We are offering the above papers as Skill Based Paper in the V and VI Semester. It has components like test of reasoning ability, English language, aptitude, arithmetic etc., which facilitates students to work out problems with accuracy and speed and thereby able to score more in competitive examinations like TANCET, MAT, Bank Clerical Cadre Exams etc., and get admission for higher studies in leading institutions within the Country.



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## DEPARTMENT OF MBA

### REPORT ON CASE STUDY ANALYSIS

As a part of the MBA curriculum, case study method involves presenting students with [case studies](#), also known as cases that document a real-life business situation or imagined business scenario. MBA students learn how to analyze business problems and develop solutions from a leadership perspective. Students are asked to read the case, analyze the problems that are presented, evaluate underlying issues, and present solutions that address the problem that was presented. The analysis should include a realistic solution as well as an explanation as to why this solution is the best fit for the problem and the organization's goal. The reasoning should be supported with evidence that has been gathered through outside research. Finally, analysis should include specific strategies for accomplishing the solution proposed.

Case study analysis method imparts ability to the students to identify the root cause of problems, problem-solving skills, and negotiation skills.



I MBA Students actively participating in case study on 6/7/2023

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