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101 - 150 Rank Band in India Ranking 2021 (NIRF)
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The Students of Fatima College are exposed to a variety of learning experiences. Despite the lockdown 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.

EXPERIENTIAL LEARNING

DEPARTMENT OF HISTORY

The students of History are actively participated in hero stone exhibition jointly conducted by Department of History, Department of Tamil and Madurai Government Museum Madurai on 22nd March 2021. The students know about types of hero stones and its importance.







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THE RESEARCH CENTRE OF ENGLISH

Type of Learning	Place with Date	Purpose of the visit	No. of Beneficiaries	Outcome
19PG3LT10 - ENGLISH LANGUAGE TEACHING Practice Teaching	Mannar Thirumalai Naicker College 4.12.2020	Teaching practice for first PG students as part of Practicals	34 First PG students	Hands on experience, classroom management and honing teaching skills

The Research Centre of English, offers English Language Teaching as a major core paper for the II MA students during the III Semester. Besides the theoretical input, students are motivated to hone their teaching skills through peer teaching on campus. The teaching competency of the students was evaluated through the classes the handled for the undergraduate students from Mannar Thirumalai Naicker College, Madurai. 34 students from II M.A. were the student trainees of the day.



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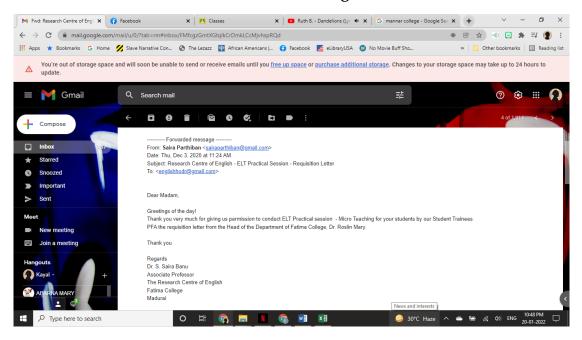
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Their performance was widely appreciated by the faculty and the students of Mannar Thirumalai Naicker College.



ELT Practice Teaching requisition letter sent to the Principal of Mannar Thirumalai Naicker College, Madurai





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Mail sent to the external examiner of ELT Practice teaching



Ms. A.S.Hemapriya(2019MAEL11) teaching the poem "Amanda" during the external external ELT Practice teaching session



Ms.S.Sivaganga (2019MAEL33) dealing with synonyms during the ELT Practice Teaching Session

Name List of the Beneficiaries:

2019MAEL 01	ARUL SOPHIYA.J
2019MAEL 02	CAROLINE FELICITA
	CELIN RAICHEL
2019MAEL 03	SARONA
2019MAEL 04	CHANDINI SAROJ.J
2019MAEL 05	CHRISTIKA.P
2019MAEL 06	CHRISTY.G
2019MAEL 07	DEPILA DARTHI.S
2019MAEL 08	DIANA AGNAS.A
2019MAEL 09	FEMINA FATIMA.S
2019MAEL 10	GOWRI SREE
2019MAEL11	HEMAPRIYA .A.S
2019MAEL12	HINDUSREE.J
2019MAEL 13	INDUMATHI.A
2019MAEL 14	JANANEE.J
2019MAEL 15	JAYA BLESSY.A
2019MAEL 16	KALAIMAGAL.A
2019MAEL 18	KARTHIKA.L

2019MAEL 20	MAHALAKSHMI.M
2019MAEL22	MAYA.K
2019MAEL 23	MYSTICA MORTINA.A
2019MAEL 25	PRIYADHARHINI.B
2019MAEL 26	PRIYANKA.C
2019MAEL 28	RATHIKA.V
2019MAEL29	REBEKA.J
2019MAEL 30	SANGEETHA.P
2019MAEL 31	SARANYA.P
2019MAEL 32	SHIVANI.S
2019MAEL 33	SIVAGANGA.S
2019MAEL34	SNEHA.L
2019MAEL 35	SWETHA.B
2019MAEL 37	THENMOZHI.R
2019MAEL 38	UDAYA.K
2019MAEL 39	UMA MAHESWARI.M
2019MAEL40	VEDAVIVEKA.C.N

Roselin Mary

Dr. A Roselin Mary Head of the Department The Research Centre of English



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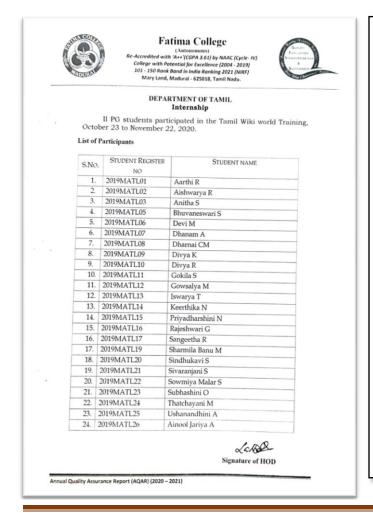
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THE RESEARCH CENTRE OF TAMIL

INTERNSHIP

Type of Learning	Place with Date	Purpose of the visit	No. of Beneficiaries	Outcome
Internship	23.10.2020 - 22.11.2020 (Webinar)	Function to be performed as a part of the curriculum.	24	Through the training, they were able to update their work on the Internet and gain access to Internet - based employment





Date: 25 Jan 2020

To whomsoever, it may concern

This is to certify that 24 Students of II M.A. Tamil, has completed their internship training handled by Tamil Wiki Internship Programme 2020 held from 23 October 2020 to 22 November 2020 successfully and also 44 students of Tamil Department, Fabric College (Autonomous), Madurai, TamilNadu, India has actively participated in the same.

Tamil Wikimedia Community & Centre for Internet & Society is happy to inform that all the students had good learning skills and they all involved with a self-motivated attitude to learning new things. The Wiki Internship program has reached the expected contribution in the Creatives Commons Project such as Tamil Wiki Source, Tamil Wikitonary, Tamil Wikipedia, Wikimedia Commons, Wiki Data. All the students of the esteemed institution have received hands-on experience in content writing, proofreading and copyright licensing.

Yours faithfully

Ananth Subray

Programme Officer

Centre for Internet & Society



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DEPARTMENT OF HINDI

Classroom Teaching/Interaction





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THE RESEARCH CENTRE OF PHYSICS

Type of Learning	Place with Date	Purpose of the visit	No. of Beneficiaries	Outcome
Experiential Learning	Materials Research Centre, Madurai 25.11.2020	PG Project and internship	12 MSc Physics students	12 MSc Physics students completed their internship and projects in the field of Biopolymers.
Experiential Learning	Quantanics Techserv. Pvt. Ltd., Madurai 29.04.2021	UG projects -Sensor based devices	17 BSc Physics students	17 BSc Physics students completed their sensor based device projects

Onsite visit to Materials Research Centre, Madurai - 25.11.2020





Onsite visit to Materials Research Centre, Madurai run by Dr.S. Selvasekarapandian, Emeritus Professor, Bharathiar University, Coimbatore



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The following M.Sc Physics students did their Projects and internships in Materials Research Center, Madurai on the given topics.

C Mr.	37	That are CD and a second
SNA	Name & Reg No	Title of Projects
1	B. Harishma (2019MSCP07)	Blend Polymer Electrolyte Based On Polyvinyl Alcohol (PVA) And Nehmbo Nucifera (Lotus Leaf Powder) With Sodium Perchlorate
2	K. Jenifer (2019MSCP09)	Blend Polymer Electrolyte Based On Polyvinyl Alcohol (PVA) And Nelumbo Nucifera (Lotus Leaf Powder) With Ammonium Thiocyanate
3	E. Jerlin FatiRanjitham (2019 MSCP10)	Blend Polymer Electrolyte Based On Polyvinyl Alcohol (PVA) And Nehmbo Nucifera (Lotus Leafpowder) With Magnesium Chloride
4	A. JoshibaArockia Payithra (2019MSCP11)	Blend Polymer Electrolyte Based On Polyvinyl Alcohol (PVA) And Nelumbo Nucifes (Lotus Leaf Powder) With Sodium Thiocyanate
5	V. Keerthiga (2019MSCP12)	Blend Polymer Electrolyte Based On Polyvinyl Alcohol (PVA) And Nehmbo Nucifes (Lotus Leaf Powder) With Lithium Triffate
6	A. Monica (2019MSCP17)	Blend Polymer Electrolyte Based On Polyvinyl Alcohol (PVA) And Nehmbo Nucifesa (Lotus Leaf Powder) With Magnesium Nitrate
7	P. Premiga (2019MSCP19)	Blend Polymer Electrolyte Based On Polyvinyl Alcohol (PVA) And Nehmbo Nucifes (Lotus Leaf Powder) With Lithium Perchloride
8	S. Sheeba Jesin Mercy (2019MSCP21)	Characterization Of Polymer Electrolyte Based On Polyvinyl Alcohol (PVA) And Lotus Leaf Powder Doped With Sodium Chloride
9	N. Sweatha (2019MSCP26)	Characterization Of Polymer Electrolyte Based On Polyvinyl Alcohol (PVA) And Lotus Leaf Powder Doped With Ammonium Nitrate
10	V. Vinotha (2019MSCP27)	Characterization Of Proton Conducting Polymer Electrolyte Based On Polyvinyl Alcohol (PVA) And Lotus Leaf Powder Doped With Ammonium Formate.
11	S. IndayaNichomi (2019MSCP29)	Blend Polymer Electrolyte Based On Polyvinyl Alcohol (PVA) And Nelumbo Nucifera (Lotus Leaf Powder) With Lithium Chloride
12	B. Yogadharshini (2019MSCP30)	Blend Polymer Electrolyte Based On Polyvinyl Alcohol (PVA) And Nelumbo Nucifesa (Lotus Leaf Powder) With Lithium Nitrate





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Visit to Quantanics Techserv. Pvt. Ltd., Madurai - 29.04.2021

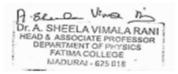


Visit to QuantanicsTechserv. Pvt. Ltd., Madurai

Mr. Kesevan addressed students on IOT based projects

The following projects were done by the students.

S.		
No	Name & Reg. No	Title of Projects
1	P.Alanbetrova (2018P01)	Gate way intruder alarm
2	A.Avilajeromi (2018P03)	Gate way intruder alarm
3	V.Karthiga (2018P12)	Gate way intruder alarm
4	M. Lavanya (2018P16)	Gate way intruder alarm
5	N.Faheeraparveen	Automated hand sanitizer using
	(2018P07)	sensor
6		Automated hand sanitizer using
	J. Agnes (2018P43)	sensor
7	K. Jeyamonica (2018P10)	Automatic bathroom light
8	A.Katharbeevi (2018P13)	Automatic bathroom light
9	V. Keerthiga (2018P14)	Automatic bathroom light
10	A.Koperundevi (2018P15)	Water level indicator
11	J. Princy (2018P27)	Water level indicator
12	B.Rajeshwari (2018P28)	Water level indicator
13	S. Lavanya (2018P17)	Fire detector
14	T.Libiyavinnarasi (2018P18)	Fire detector
15	F.Mariyashinola (2018P20)	Fire detector
16	M.Siva Priya (2018P36)	Fire detector
17	K. Deepika (2018P44)	Fire detector





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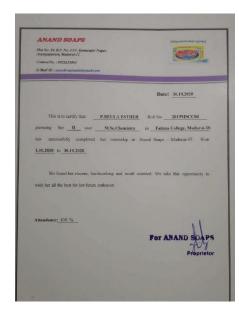
DEPARTMENT OF CHEMISTRY

Internships for II PG

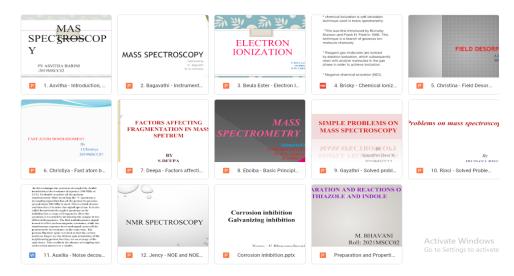
27 of II M.Sc., Chemistry students have done internship (chemical analysis) at various institutions for one month







Seminars by Students





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Projects for III UG and II PG

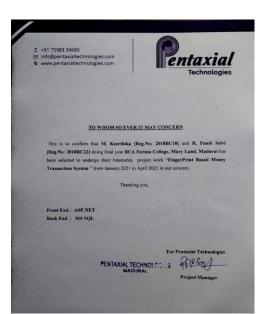
27 of II M.Sc., Chemistry students have done projects at various reputed institutions for three months and were exposed to learn different techniques like UV, NMR, IR, CV, XRD, SEM, & TEM.

DEPARTMENT OF COMPUTER APPLICATIONS

Internships











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DEPARTMENT OF INFORMATION TECHNOLOGY

INTERNSHIP











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PG DEPARTMENT OF COMPUTER APPLICATIONS

INTERNSHIP











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PARTICIPATIVE LEARNING

DEPARTMENT OF HISTORY

S. No.	REG.N O	Name of the Student(S)	DATE / PERIOD	FIELD PROJECT TITLE	Name of the Industry / Organisation with Full Address& Contact No.
1.	'2020 MAH01	DHAZEEBA B S	27 May, 2021 – 26 June, 2021	Tamil Wiki Internship Programme 2021	Tamil Wikipedia Community Mr.Neechalkaran - 8675008430
2.	'2020 MAH02	KEZIA I	27 May, 2021 – 26 June, 2021	Tamil Wiki Internship Programme 2021	Tamil Wikipedia Community Mr.Neechalkaran - 8675008430
3.	'2020 MAH03	M BARAKATHNISHA	27 May, 2021 – 26 June, 2021	Tamil Wiki Internship Programme 2021	Tamil Wikipedia Community Mr.Neechalkaran - 8675008430
4.	'2020 MAH04	SATHIYADEVI S	27 May, 2021 – 26 June, 2021	Tamil Wiki Internship Programme 2021	Tamil Wikipedia Community Mr.Neechalkaran - 8675008430
5.	'2020 MAH05	VIDHYA SRI M	13 September, 2021 – 13 October, 2021	Tourism Management Internship Programme 2021	Sri Raman Tours & Travels, Madurai. Mr.Raja - 9943158504
6.	'2020 MAH06	CHITHRA G	27 May, 2021 – 26 June, 2021	Tamil Wiki Internship Programme 2021	Tamil Wikipedia Community Mr.Neechalkaran - 8675008430
7.	'2020 MAH07	JASMINE JENO S	27 May, 2021 – 26 June, 2021	Tamil Wiki Internship Programme 2021	Tamil Wikipedia Community Mr.Neechalkaran - 8675008430
8.	'2020 MAH08	MOHANA S	27 May, 2021 – 26 June, 2021	Tamil Wiki Internship Programme 2021	Tamil Wikipedia Community Mr.Neechalkaran - 8675008430
9.	'2020 MAH09	SARANYA V	27 May, 2021 – 26 June, 2021	Tamil Wiki Internship Programme 2021	Tamil Wikipedia Community Mr.Neechalkaran - 8675008430
10.	'2020 MAH10	SUREKADEVI K	27 May, 2021 – 26 June, 2021	Tamil Wiki Internship Programme 2021	Tamil Wikipedia Community Mr.Neechalkaran - 8675008430
11.	'2020 MAH11	VENNILA M	27 May, 2021 – 26 June, 2021	Tamil Wiki Internship Programme 2021	Tamil Wikipedia Community Mr. Neechalkaran - 8675008430



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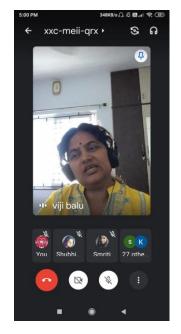
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THE RESEARCH CENTRE OF ENGLISH

I MA English-Summer Internship

Type of Learning	Place with Date	Purpose of the visit	No. of Beneficiaries	Outcome
Writing articles and Editing	Deccan Chronicle, Chennai 01.05.2021- 31.05.2021	Summer Internship	11	Hands on experience in writing articles and editing
Content writing	Literpretation, Madurai	Summer Internship	8	Hands on experience in content writing
Input sessions from Transgender and scholars on Transgender studies	Transgender Resource Center, Madurai	Summer Internship	17	Hands on experience in creative writing and publication of articles





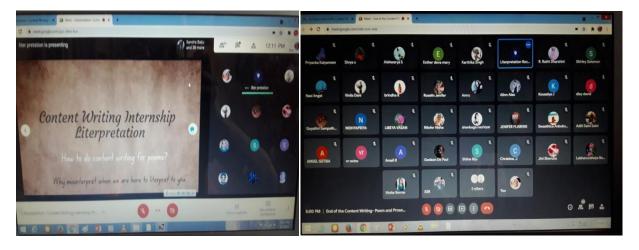
Ms. S.Muthu Lakshmi (2020MAEL21) listening to the input session given by Mrs.B.Viayalakshmi, senior editor of Deccan Chronicle



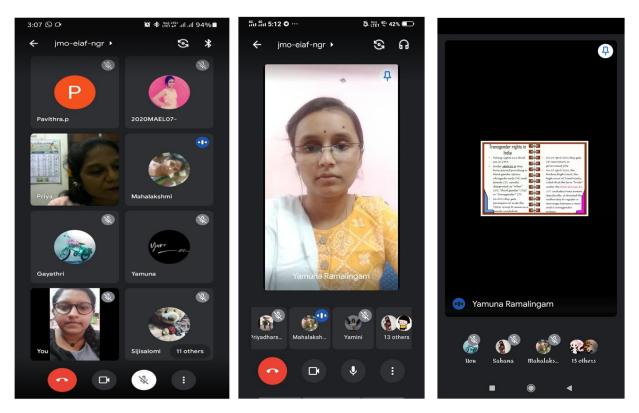
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Ms. P.Josephine Lincy (2020MAEL17) attending summer internship at Literpretation, Madurai



II M.A English Students attending Summer Internship on "Transgender studies "at Transgender Research Center, Madurai



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THE RESEARCH CENTRE OF TAMIL

Workshop on Wikimedia Project

S.NO.	DURATION	NO. OF STUDENTS	TRAINER	IMPACT FACTOR
1.	Oct23, 2020 - Nov.22, 2020	41	Tamil Wikimedia Community	Through the training, they were able to update their work on the Internet and gain access to Internet - based employment





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WORKSHOP ON DRAMA

S.NO	Place with Date	No. of Benefi ciaries	ТНЕМЕ	TRAINER	Outcome
1.	11.02.2021 (Webinar)	161	An Introduction to Drama Training for Personality Skills	Dr. K. Parthibaraja, Mattru Nadaga Iyakkam	Students are capable of Theatrical Creation and conceiving concepts.



(DURING TRAINING TIME - TRAINER : Dr. K. Parthibaraja)





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Lab to Land

S.NO.	Place with Date	No. of Beneficiaries	Event	Participants	Outcome
1.	11.02.202 1 (Webinar)	Open to College Staff & Students	Drama Title : Chandrahari	Tamil Department students	The students were trained with theatrical skills and the nuances of drama.
2.	11.02.202 1 (Webinar)	Open to College Staff & Students	Folk dance	Tamil Department students	The participants gathered training in folk arts.

Mutthamizh Vizha, Feb 13, 2021





Drama Folk Arts



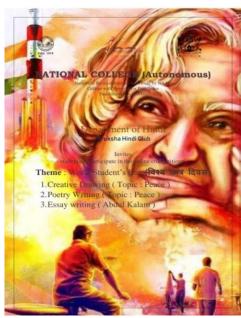
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DEPARTMENT OF HINDI

ICM – 15.10.2021 – NATIONAL COLLEGE



National College(Autonomous), Thiruchirappalli. Viruksha Hindi Club, Department of Hindi Intercollegiate Competiton – World Students Day 15.10.2021

1. Creative Drawing

Si.no.	Name	Name of the College	Prize
1.	S.V.Anuja	Holycross College,Tiruchirappalli	First
2.	S.Harini	Madura College, Madurai	Second
3.	M.Kala Manjari	Fatima College, Tiruchirappalli	Third

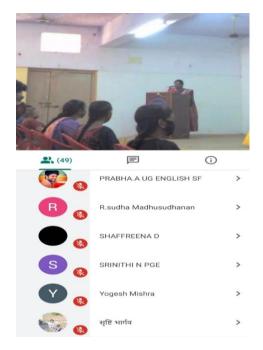
2. Peace -Poetry writing

Si.no.	Name	Name of the College	Prize
1.	Abhishek Toppo	St.Joseph's College	First
2.	Kushi Chanda	Fatima College, Madurai	Second
3.	Ananias Xess	St.Joseph's College, Tiruchirappalli	Third

3. Essay Writing

Si.no.	Name	Name of the College	Prize
1.	Ananias Xess	St.Joseph's College,Tiruchirappalli	First
2.	Abishek Toppo	St.Joseph's College,Tiruchirappalli	Second
3.	Lakshmi	Fatima College, Madurai	Third

NATIONAL WORKSHOP FOR STUDENTS – 28.10.2021 SOURASHTRA COLLEGE





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DEPARTMENT OF FRENCH

CLASS ACTIVITIES:

1. The students are asked to speak in French for the first 10 minutes of the class

For example: They have to converse in simple sentences.

How was the day? What did they have for the breakfast?

- 2. Once in a week the whole class is made to listen to an audio clip to rehearse the same in the class. Next week the next topic is chosen based on their studies, subjects etc. to practise.
- 3. Once in a month they are given an oral test by the teacher marks are awarded and are added for internal marks.
- 4. Once in a semester they are made to converse with a French teacher or a French native (if possible) by conducting a seminar or a workshop to improve their spoken skill.
- 5. The students are given an exposure to the French culture by conducting competitions in French cuisine and in artwork on French architecture.





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THE RESEARCH CENTRE OF PHYSICS

National Science Day - 09.03.2021

Virtual web lecture on

"Rare Earth Doped Glasses and Its Applications".

Every year Dept. of Physics organizes a series of events as part of National Science Day celebrations. The Department organized a **virtual web** lecture on "Rare Earth Doped Glasses and Its Applications". Dr.K.Marimuthu, Asst. Professor, Department of Physics, Gandhigram Rural University, Gandhigram, gave the lecture on 09TH MARCH 2021 IN FATIMA COLLEGE.

The speaker very clearly explained how this rare earth doped glasses/ceramics play significant roles in solid-state lasers, broadband optical amplifiers, and up-conversion luminescence temperature sensors. It was a very informative session. 133 students participated in this event and benefitted.



GLIMPSES OF THE WEB LECTURE ON "Rare Earth Doped Glasses and Its Applications" GIVEN BY DR.MARIMUTHU, ASST. PROFESSOR, DEPT. OF PHYSICS, GANDHIGRAM RURAL UNIVERSITY, GANDHIGRAM ON 09.03.21.



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Awareness Session on Energy Conservation

Date: 26.03.21

Mr. Sivakumar, M.E., External Faculty, PCRA gave an awareness session on "Energy Conservation".

He showed evidences of the measures taken by the Govt. and reminded the gathering of Govt. of India slogan 'Save energy, Save Future'. He also stressed on the judicious use of available energy resources. Around 139 students participated and got benefitted and the programme ended with a very lively interaction with students.



Glimpses of the awareness session, Mr.Sivakumar M.E., External Faculty, PCRA spoke and interacted with the students on "Energy conservation" 26.03.21



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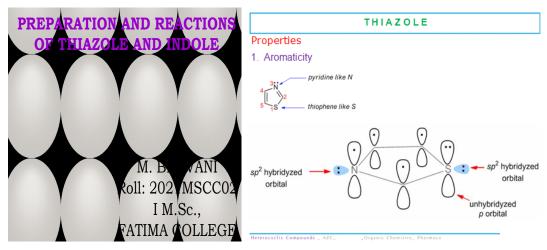
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DEPARTMENT OF CHEMISTRY

Seminar:

Different topics are given to the students and they present the same in the class room using ICT.



Some common ions					
Compound type	Common lines				
Alkanes	29, 43, 57, 71, 85, 99				
Alkenes/cycloalkanes	27, 41, 55, 69, 83, 97				
Aliphatic alcohols	31, 45, 59, 73, 87, 101				
Aromatics	38, 39, 50-2, 63-5, 75-8				
Acids/esters	45, 59, 73, 87, 101				
Alkyl amines	30, 44, 58, 72, 86, 100				
Chloroalkyl	49, 63, 77, 91, 105				
Alkyl silanes	31, 45, 59, 73, 87, 101				



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Lab to land practices

Sanitizer preparation





Soap powder and cleaning powder preparation







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Candle Preparation











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DEPARTMENT OF ZOOLOGY

- Internship/Summer Training for the period of one month mandated for I PG students during their summer holidays (May-June) for which Internal and External marks are awarded based on their acquisition of skills, Report writing, Presentation (one-on-one viva)
- All practical papers aimed to provide hands-on training to enhance participative learning. Students perform all the experiments individually that develop the confidence to carry out any biological techniques in future, where they venture into research
- In papers like Biostatistics, Research Methodology, Value-Education, Peer-Group learning, Case study analysis, Problem-solving methodologies, ICT enabled learning and Participative learning are entertained.

SUMMER INTERNSHIPS FOR PG STUDENTS

Internship/Summer Training for one month is mandated for I PG students during their summer holidays (May-June) for which Internal and External marks are awarded based on their acquisition of skills, Report writing, Presentation **2020 – 2021** (one-on-one viva) – (Course Code: 19PG3SIZ1; Course Title: Internship/Summer Project)

STUDENTS WHO COMPLETED SUMMER INTERNSHIPS

Reg. No	Names	Name of the Institution	Title of the project
2020MSCZ01	R,Anu	Kaasiv Infotech, Chennai	Biology internship
2020MSCZ02	A.Geetha	Learn to upgrade	Forensic science
2020MSCZ03	S.Harshini Priya	Learn to upgrade	Forensic science
2020MSCZ04	M.Monisha	Kaasiv Infotech,	Bio-informatics



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		Chennai	
2020MSCZ05	M.Nagashalini	Learn to upgrade	Stem Cells and Gene therapy
2020MSCZ06	J.Prinita	Learn to upgrade	Stem Cells and Gene therapy
2020MSCZ08	B.Rajalakshmi	Learn to upgrade	Stem Cells and Gene therapy
2020MSCZ09	N.Shalini	Learn to upgrade	Food microbiology
2020MSCZ10	P.Sweatha	Learn to upgrade	Food microbiology and Probiotics
2020MSCZ11	S.Varshini	Learn to upgrade	Food microbiology and Probiotics
2020MSCZ12	S.Yafiya	Learn to upgrade	Advanced program in Pharmacovigilance











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DEPARTMENT OF HOME SCIENCE

Internship

Name of the	Date	No. of Students	Purpose
Organization		Students	
UG Asirvatham Hospitals, Anna Nagar,Madurai – 20	12.04.2021- 26.04.2021	40	To attain professional skills to provide high quality nutrition care and education that will support the health of the individuals and populations.
PG SVS Foods, Madurai	15.12.2020 - 23.12.2020	2	To understand the various processing techniques of milling and the production line of different cereal products.
CENDECT, ICAR, Krishi Vigyan Kendra, Kamatchipuram, Theni	16.12.2020 - 22.12.2020	9	To attain knowledge and skill in fruit processing techniques.
India Foods PVT Ltd, Thiruppuvanam	18.12.2020 -2 4.12.2020	4	To impart hands on training in bakery and other processed foods.



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DEPARTMENT OF COMPUTER SCIENCE

Participative Learning:

- > Writing programs on the black board.
- > Taking seminar on the topic given.
- > Writing assignments.
- > Group discussion.
- > Conducting Quiz program.
- > Discussion of FAQ questions.
- > Self-assessment test.

Sl. No.	Name of the collaborating agency with contact details	Name of the participant	Dura From	tion To	Nature of the activity
1	Live wire,S1 Magnam Suraksha Appartment, 2nd Floor, Trivandurm Road, Palayamkottai, Tirunelveli - 627002, 0462 2585432	2019MSCB01 P. Akila Jenifer	Sep-20	Oct-20	Training
2	Live wire,S1 Magnam Suraksha Appartment, 2nd Floor, Trivandurm Road, Palayamkottai, Tirunelveli - 627002, 0462 2585432	2019MSCB02 K. Aparna Devi	Sep-20	Oct-20	Training
3	Live wire,S1 Magnam Suraksha Appartment, 2nd Floor, Trivandurm Road, Palayamkottai, Tirunelveli - 627002, 0462 2585432	2019MSCB04 K. Deepika	Sep-20	Oct-20	Training
4	Live wire,S1 Magnam Suraksha Appartment, 2nd Floor, Trivandurm Road, Palayamkottai, Tirunelveli - 627002, 0462 2585432	2019MSCB06 R. Indhumathi	Sep-20	Oct-20	Training



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5	Live wire,S1 Magnam Suraksha Appartment, 2nd Floor, Trivandurm Road, Palayamkottai, Tirunelveli - 627002, 0462 2585432	2019MSCB07 J.Jeya Bharathi	Sep-20	Oct-20	Training
6	AstroWebSolution, 2nd floor, V.J. Towers, Madurai main road, Madurai-9, 95143 22444	2019MSCB08 V. Kalpana	Sep-20	Oct-20	Training
7	Big Fat Lad, 5&6,Janaka Homes,Muthamil nager,1 st Main road,Kallikuppam, Chennai-600053 7305922166	2019MSCB10 E. Logitha	Nov-20	Dec-20	Training
8	AstroWebSolution, 2nd floor, V.J. Towers, Madurai main road, Madurai-9, 95143 22444	2019MSCB11 P. Monisha	Sep-20	Oct-20	Training
9	Live wire,S1 Magnam Suraksha Appartment, 2nd Floor, Trivandurm Road, Palayamkottai, Tirunelveli - 627002, 0462 2585432	2019MSCB12 A. Muthulakshmi	Sep-20	Oct-20	Training
10	Live wire,S1 Magnam Suraksha Appartment, 2nd Floor, Trivandurm Road, Palayamkottai, Tirunelveli - 627002, 0462 2585432	2019MSCB13 M. Pavithra	Sep-20	Oct-20	Training
11	AstroWebSolution, 2nd floor, V.J. Towers, Madurai main road, Madurai-9, 95143 22444	2019MSCB14 E. Rajeswari	Sep-20	Oct-20	Training
12	AstroWebSolution, 2nd floor, V.J. Towers, Madurai main road, Madurai-9, 95143 22444	2019MSCB15 M. Rajeswari	Sep-20	Oct-20	Training
13	Live wire,S1 Magnam Suraksha Appartment, 2nd Floor, Trivandurm Road, Palayamkottai, Tirunelveli - 627002, 0462 2585432	2019MSCB16 N.S. Santhia	Sep-20	Oct-20	Training



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14	Live wire,S1 Magnam Suraksha Appartment, 2nd Floor, Trivandurm Road, Palayamkottai, Tirunelveli - 627002, 0462 2585432	2019MSCB17 A. Subariya Banu	Sep-20	Oct-20	Training
15	AstroWebSolution, 2nd floor, V.J. Towers, Madurai main road, Madurai-9, 95143 22444	2019MSCB18 K. Sugashini	Sep-20	Oct-20	Training
16	Live wire,S1 Magnam Suraksha Appartment, 2nd Floor, Trivandurm Road, Palayamkottai, Tirunelveli - 627002, 0462 2585432	2019MSCB19 C. Suvetha	Sep-20	Oct-20	Training
17	New Horizon Technologies, 2/223 Arokiya Madha Church Near, Natham Main Road, Shanarpatty, Dindigul -634304	2019MSCB21 M.Emerin Pricilla	Sep-20	Oct-20	Training
18	AstroWebSolution, 2nd floor, V.J. Towers, Madurai main road, Madurai-9, 95143 22444	2019MSCB22 S. Prithi	Sep-20	Oct-20	Training
19	AstroWebSolution, 2nd floor, V.J. Towers, Madurai main road, Madurai-9, 95143 22444	2019MSCB24 S.Praveena	Sep-20	Oct-20	Training
20	Live wire,S1 Magnam Suraksha Appartment, 2nd Floor, Trivandurm Road, Palayamkottai, Tirunelveli - 627002, 0462 2585432	2019MSCB25 R. Vishnu Priya	Sep-20	Oct-20	Training
21	Live wire,S1 Magnam Suraksha Appartment, 2nd Floor, Trivandurm Road, Palayamkottai, Tirunelveli - 627002, 0462 2585432	2019MSCB26 K. Prathiksha	Sep-20	Oct-20	Training
22	AstroWebSolution, 2nd floor, V.J. Towers, Madurai main road, Madurai-9, 95143 22444	2019MSCB27 S. Monisha	Sep-20	Oct-20	Training



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Seminar by students



Group Discussion



DEPARTMENT OF JOURNALISM AND MASS COMMUNICATION

Title : Hands-on experience on Audio & Video

Production Techniques

Date : 15-03- 2021 to 31-03-2021

Resource Person/s : Staff of Sathangai Cultural Academy, Madurai

No. of Participants : 18

Focus on : This internship programme focused on

experiential learning, employability and skilldevelopment students of Journalism and

Mass communication.

Outcome : Students learnt the techniques of audio and

video production. They learnt about various editing software and also learnt various

scripting techniques, which will help them to

develop their skill base.



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Report:

III JMC students completed their 75 hours of Internship Programme at the Sathangai Cultural Academy, Madurai from 15-03-2021 to 31-03-2021, which was conducted in both online and offline mode. Through this internship students learnt different ways to express their talents in the media field. The internship gave the students an opportunity to learn about editing software, script writing for films, editing and creating posters, brochures, video camera handling, camera angles and movements, audio recording, using lighting in sets and video capturing.



Students are taught how a camera's focal length would work



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Group discussion on different ways to create a script



Students at the set of Madha TV



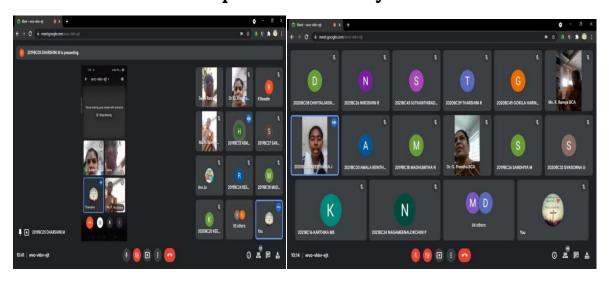
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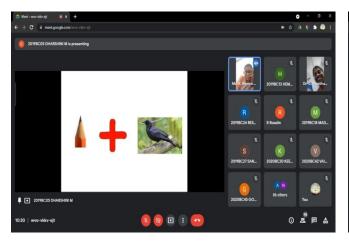


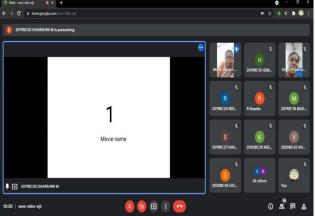
DEPARTMENT OF COMPUTER APPLICATIONS

Virtual Paper Presentation by Students



Virtual Connection Puzzle Activity







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DEPARTMENT OF MANAGEMENT STUDIES I MBA (2020-2022 Batch)

The students of I MBA participated in management Games on 29/01/2021 Students actively participated in the discussion in groups.

I MBA students engaged in group discussion on 29/01/2021



II MBA students engaged in Management Games on 29/01/2021





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I MBA (2020-2022 Batch)

Model Displays:

The students of I MBA, to inculcate the spirit of entrepreneurial spirit among the students they were assigned to bring business models. Following are the few Models displayed and presented by students.



Business models were on various topics like restaurant, cafe, food truck etc. Each Business model was built upon unique ideas



The models were made without the use of plastic. Each team along with the business model also had business plan that consisted of various segments like objective, vision, mission, products, financial implication of the project, SWOT analysis etc.

Model Presentation by I MBA Students on 03.02.2021



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The presentation made by students was recorded. The students during presentation explained their model along with their unique features and also gave a brief note on the business plan for the business.

I MBA (2020-2022 Batch)

Role Play:

The I MBA students participated in Role play activity.

I MBA students participated in Role play on 08.02.2021





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PROBLEM-SOLVING METHODOLOGIES

THE RESEARCH CENTRE OF PHYSICS

Sensor Based Devices

The final year undergraduate students of the Research Center of Physics have designed the following sensor-based devices in their UG Project.

Particulars	Qty
Fully Automatic Motion Sensor Hand free Sanitizer	1
Automatic Light for Restroom	1
Security Alarm for Door and Window	1
Water Tank Overflow-Alarm	2
Fire Alarm	1
_	Automatic Light for Restroom Security Alarm for Door and Window Water Tank Overflow-Alarm

Out of the above projects, the fully automatic motion Sensor hand free sanitizer is installed in the main lobby of the administrative block and automatic light for restroom was installed in the Principal's office on 9.3.2021.

Two water tank overflow alarms were installed in the roof top water tanks on either side of the administrative blocks on 20.03.2021.

Fire alarm is installed on the walls of Physics laboratory where heating experiments are carried out.

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5.	Fire Alarm	1



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Fully automatic motion Sensor hand free sanitizer



Water tank overflow alarm



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DEPARTMENT OF CHEMISTRY

The Department introduced a course as a part of the curriculum in the sixth semester to enhance the problem solving technique.

FATIMA COLLEGE (AUTONOMOUS) MADURAI-18

B.Sc.Chemistry- VI SEMESTER ORGANIC SPECTROSCOPY PROBLEMS (For those who joined in June- 2019 onwards)

Objective: In this course the students are exposed to various problems in spectroscopic techniques that are used in structural elucidation. This paper will be of much use of the students to take up higher studies.

Unit I: Problems

Unit II: Problems in UV - Visible Spectroscopy

Unit III: Problems in IR Spectroscopy Unit IV: Problems in Mass Spectrometry

Unit V: Combined Problems in UV, IR, NMR and Mass spectroscopy

I- Problems

Conversion of empirical formula into molecular formula-Calculation of molecular formula from molecular weight- Prediction of number of signals for acyclic, cyclic and aromatic systems- Intensity and peak area calculation of straight chain compounds and branched chain compounds

II- Problems in UV - Visible Spectroscopy

Calculation of □max for the following molecules –



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III-Problems in IR Spectroscopy

Write the various infrared bands for the following compounds

i)Toluene, ii) 1-hexyne iii) 2-hexene iv) Acetaldehyde v) Acrolein vi) Propanal vii) Acetone viii) maleic acid ix) Fumaric acid x) Salicylic acid

Find out the probable structure for the following IR bands

i)a) 3295 cm⁻¹ b) 625 cm⁻¹ c) weak absorption at 2130 cm⁻¹

ii)a) 3401 cm⁻¹ b)3077 cm⁻¹ c) 2899 cm⁻¹, 1499 cm⁻¹ d) 1456 cm⁻¹ (m.wt=108)

iii)a) 2720 cm⁻¹ b)1738 cm⁻¹ (M.F C₃H₆O)

iv) a) 3012 cm⁻¹ b)3423 cm⁻¹ c) 3236 cm⁻¹d) 1615 cm⁻¹ (M.F C₃H₉N)

v) a) $2925 \text{ cm}^{-1} \text{ b}$) $1465 \text{ cm}^{-1} \text{ c}$) $1380 \text{ cm}^{-1} \text{ d}$) $720 \text{ cm}^{-1} \text{(M.F C}_8\text{H}_{18})$

IV- Problems in Mass Spectrometry

Find out the structures for the following m/e values:

i)57(100% abundance), 41,29 and 27.



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- ii)100, 85,71,57,43(base value), 41,29 and 27.
- iii) 99, 71, 57, 43, 41 and 29.
 - iv) 124, 122, 81, 79, 43(base peak), 41, 29 and 27
- v) 102, 87, 73, 59, 45 (base peak), and 29.
 - vi) 86, 85, 44 (M.R. ion), 57 and 41.
 - vii) 162, 134 (M.R.ion), 119, 91 and 65.
 - viii) 102, 85, 60 (M.R. ion), 57, 41 and 29.
 - ix) 136, 105, 77 and 51.
 - x) 152 (M+), 121, 120, 925, 65 and 64.
 - xi) 172 (M+), 143, 141, 129, 87, 74 (M.R.ion), 59, 56, 43 and 41.
 - xii) 100, 71, 58, 43, 41 and 29.
 - xiii) 102, 87, 74 (M.R. ion), 71, 59, 43, 41 and 29.
 - xiv) 88, 70, 55, 43, 42 (base peak), 41, and 31.
 - xv) 87, 86, 72, 71, 59 (M.R. ion), 44 and 43.

V-Combined Problems in UV, IR, NMR and Mass spectroscopy

Determine the following structures.

i) A compound with m.wt 58 gives the following spectral data;

UV: above 200 nm, so no □max

IR: 3005 cm⁻¹, 2950-2840 cm⁻¹, and 1405 cm⁻¹.

NMR: 5.35 (d), 5.62 (multiplet), 7.82 τ(doublet)

ii) A compound with m.wt 60 gives the following spectral data;

UV: 222 nm, εmax 62

IR: 3490 cm⁻¹, 3385 cm⁻¹, and 1675 cm⁻¹.

NMR: 2.5τ (broad band).

iii) A compound with m.wt 59 gives the following spectral data;

UV: 220 nm, Emax 60

IR: 3495 cm⁻¹, 2950 cm⁻¹- 2840 cm⁻¹, 1670 cm⁻¹.

NMR: 3.5τ (broadband, singlet), 7.90τ (singlet)

iv) A compound with MF C₃H₈O gives the following spectral data;

UV: transparent above 200 nm, no □max

IR: 3410 cm⁻¹, 2950 cm⁻¹- 2840 cm⁻¹, 1275 cm⁻¹, 1045

 cm^{-1}

NMR: 5.42 τ (singlet), 6.4 τ (Triplet), 8.1 τ (sextet), 9.0 τ

(triplet)



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v) A compound with m.wt 70 gives the following spectral data;

UV: 285 nm, smax 23 IR: 3060 cm⁻¹, 1785 cm⁻¹

NMR: 8.4τ (triplet), 8.8τ (quintet).

vi) A compound with MF C₃H₅NO gives the following spectral data;

UV: above 200 nm, no □max

IR: 3040 cm⁻¹, 2245 cm⁻¹, 1460 cm⁻¹

NMR: 5.72τ (singlet), 6.48τ (singlet).

vii) A compound with m.wt 75 gives the following spectral data;

UV: 275 nm, Emax 20

IR: 2950 - 2841 cm⁻¹, 1565 cm⁻¹, 1375 cm⁻¹

NMR: 5.8τ (quartet), 8.15τ (triplet).

viii) A compound with MF C₃H₈O₂ gives the following spectral data;

IR: 3525 cm⁻¹, 3025 cm⁻¹, 1290 cm⁻¹, 1140 cm⁻¹

NMR: 5.7 τ (singlet), 5.85 τ (singlet) 6.4 τ (triplet), 6.52 τ

(triplet)

ix) A compound with MF C₅H₄O₂ gives the following spectral data;

UV: i) 274 nm, smax 13000 ii) 228 nm, smax 2200

IR: 3070 cm⁻¹, 2755 cm⁻¹, 2840 cm⁻¹, 1704 cm⁻¹, 1670

cm⁻¹, 1170 cm⁻¹

NMR: 0.55 τ (singlet), 2.5 τ (double doublet), 2.8 τ (double

doublet),

 3.5τ (double doublet).

x) A compound with MF C₄H₁₀O₂ gives the following spectral data;

UV: transparent above 200 nm

IR: 3015 cm⁻¹, 1165 cm⁻¹

NMR: 6.25τ (triplet), 6.10τ (singlet).



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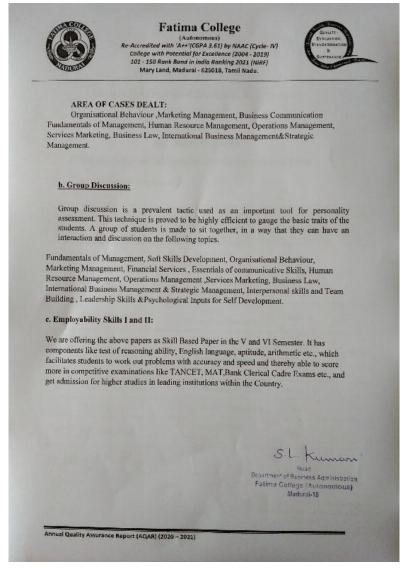
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DEPARTMENT OF BUSINESS ADMINISTRATION

a. 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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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

PG DEPARTMENT OF MANAGEMENT STUDIES 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, include specific analysis should 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.



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I MBA Students actively participating in case study on 10.09.2021



II MBA Students actively participating in case study on 10.09.2021