



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

S.No	Programme	Programme Offered to	Outcome
1.	Consumer Club	All I and II UG students of Shift -I & Shift -II	Students Gain Knowledge on Ethical Consumerism
2.	Cyber Security Cell	All the Students	Students Get Awareness on the code of responsible behaviour while on the Internet.
3.	Intellectual Property Rights	All the Students	Students get to understand the ethics involved in the protection of Trademark, Copyright etc.
4.	Green Chemistry	To all UG & PG Chemistry Students	Students can impart the green chemistry practices in their studies also in their career.
5.	Value Education Topics: 1) Personal Values(Sem -I) 2) Values for Life(Sem-II)	I UG Students	Students are given awareness on Personal Values and Ethics to develop in their life and career.
6.	Ethical Studies 1)Professional Ethics(Sem-III) 2)Personality Development(Sem-IV) 3)Life skills(Sem-VI)	II UG students & III UG Students	Students develop skills in resolving interpersonal problems. It also aims at developing good leaders and responsible digital citizens.
			Students got insight into personality development, time management and tackling procrastination.
			Students developed life skills, and got an insight on qualities of a successful person. It also teaches to choose ways of giving back to society.



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CONSUMER CLUB

2021 -2022

VISION:

- ✓ To enable students to understand fundamental rights of a citizen and make them realize and learn the fundamental duties of a good citizen.
- ✓ To inject knowledge and skills relating to consumer rights among our college students and to impart knowledge on product standards, product quality and about markets.
- ✓ To make them aware of laws enacted for protection / welfare of consumers and enforcement authorities concerned
- ✓ To build a base of enlightened citizen customers as the foundation of future India.

MISSION:

- ✓ To spread awareness on consumer rights amongst all consumer segments especially among college students.
- ✓ To emerge as the best citizen consumer club at State Level adjudged by the Commissioner of Civil Supplies and Consumer protection through the state government to government of India.

OBJECTIVES

- ✓ To educate the students to act as healthy consumers by making them aware about their rights and redress mechanisms
- ✓ To act as beacons for the society.
- ✓ To create awareness among students at a very young age and through them the general public.
- ✓ To build in children conscientiousness in doing what is right and boldness to question the wrong.

MOTTO



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"AWARE! ALERT!! And ACT!!!" CONSUMER CLUB OF FATIMA COLLEGE

AWARENESS PROGRAM ON CONSUMER RIGHTS AND EXPLOITATION

DATE: 28.09.2021

TIME: 12 NOON - 1.00 PM

No of Participants: 65

Link: <https://meet.google.com/lookup/hkm6oqahx4>

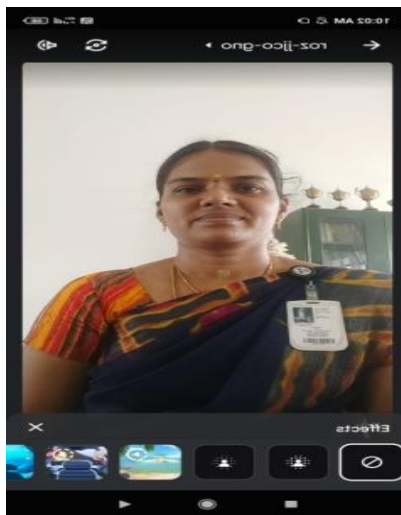
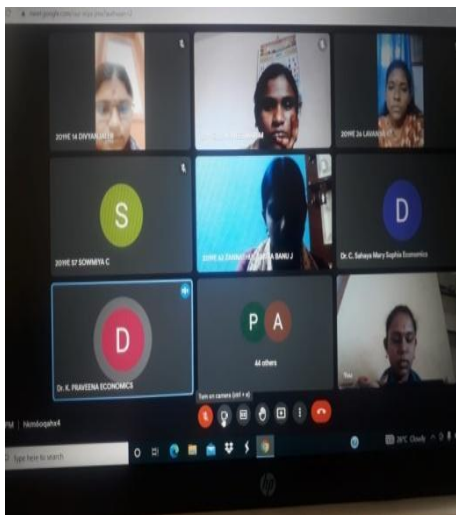
Chief Guest Profile:

DR. PRAVEENA M.A., M.Phil., Ph.D.,
The Research Centre of Economics
Fatima College (Autonomous) Madurai – 18
Mobile: 9941723109

Email id: praveena52@gmail.com

Consumer Club of Fatima College organized an awareness programme on “Consumer Rights and Exploitation” to III B.A Economics students through digital mode. DR. PRAVEENA M.A., M.Phil., Ph.D., Assistant Professor, Dept. of Economics was the resource person. In her address she highlighted the rights of consumers and encouraged the students to claim their consumer rights wherever it requires. She also motivated the students to be alert and aware of how they were exploited and cheated in consumerism. As educators she wants everyone to be a rational consumer and be a socially citizens. . It was an interactive session. Students participated actively.

OUTCOME: Students gained awareness on rights of the consumers, and to inculcate the knowledge on the ways of exploitation.



DR. PRAVEENA M.A., M.Phil., Ph.D., addressing on “Consumer Rights and Exploitation”- 28.09.2021



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BENEFICIARY LIST

S. NO	REG. NO	NAMES
1	2019EC01	AISHWARYA K
2	2019EC02	AKALYA M
3	2019EC03	AKSHAYA M
4	2019EC04	AKSHAYA R
5	2019EC05	AKSHAYADEVI P
6	2019EC06	ALAGAMMAL L
7	2019EC07	ANUSHYA M
8	2019EC08	AROCKIA JENI A
9	2019EC09	ASWINI P
10	2019EC10	BHAGYALAKSHMI S
11	2019EC11	DEEPA V G
12	2019EC12	DEVADHARSHINI M
13	2019EC13	DEVI N
14	2019EC14	DIVYANJALI R
15	2019EC15	GAYATHRI M
16	2019EC16	GOMATHI S
17	2019EC17	HARINI R
18	2019EC18	INDULEKA M
19	2019EC19	ISHWARYA LAKSHMI V
20	2019EC20	JEYA BHARATHI R
21	2019EC21	JEYASANKARI P
22	2019EC22	KAMALI N
23	2019EC23	KAVITHA P
24	2019EC24	KAVIYA U
25	2019EC25	KEERTHANA M
26	2019EC26	LAVANYA K



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27	2019EC27	LAVANYA M
28	2019EC28	LISA C
29	2019EC29	MADHUSRI M
30	2019EC30	MATHUMITHRA R
31	2019EC31	MEENA V
32	2019EC32	MEENAKSHI D
33	2019EC33	MEENAKSHI G
34	2019EC34	MEGALA T
35	2019EC35	MOHANA ILAVARASI M
36	2019EC36	MUTHU MEENA K
37	2019EC37	NANTHEESWARI M
38	2019EC38	NEHA ROSE GEORGE
39	2019EC39	NILOFERNISHA M
40	2019EC40	NITHEERVINI R
41	2019EC41	NIVETHA P
42	2019EC42	PAVITHRA C
43	2019EC43	PAVITHRA G
44	2019EC44	PRAMIKA G R
45	2019EC45	PRITHIKA K
46	2019EC46	PRIYADHARSHINI K
47	2019EC47	PRIYADHARSHINI N
48	2019EC48	ROSY B
49	2019EC49	SAFRIN M
50	2019EC50	SAKTHI M
51	2019EC51	SANDHIYA D
52	2019EC52	SANTHANAM A
53	2019EC53	SNEHA G
54	2019EC54	SNEHA M



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55	2019EC55	SNEHA S
56	2019EC56	SNEKA P
57	2019EC57	SOWMIYA C
58	2019EC58	SWETHA G
59	2019EC59	SWETHA G
60	2019EC60	VIJAYALAKSHMI M
61	2019EC61	YOGAVALLISRI R
62	2019EC62	ZANNATHUL SASIRA BANU J



AWARENESS PROGRAMME ON “CONSUMER RIGHTS AND PROCEDURE TO CLAIM COMPENSATION”

DATE: 21.10.2021

TIME: 12 NOON - 1.00 PM

No of Participants: 65

Link: <https://meet.google.com/lookup/hkm6oqahx4>

Chief Guest Profile:

Mrs. Gracy Rani M.A., M.Phil

The Research Centre of Economics

Fatima College (Autonomous) Madurai – 18

Mobile: 9750762447

Email id: gracy.seba@rediffmail.com

The Consumer Club organized an awareness programme on “Consumer Rights and Procedure to Claim Compensation” by **Mrs. Gracy Rani** on 21.10.2021 in Online. The speech was interactive and informative. The speech focused on Consumer Rights and she explained the three Tier system of Consumer Court. She pinpointed the compensation to be claimed in case of exploitation. She explained the procedure to file a case. COPRA Act 1986 and Acts 2020 were discussed. Food Adulteration was discussed.

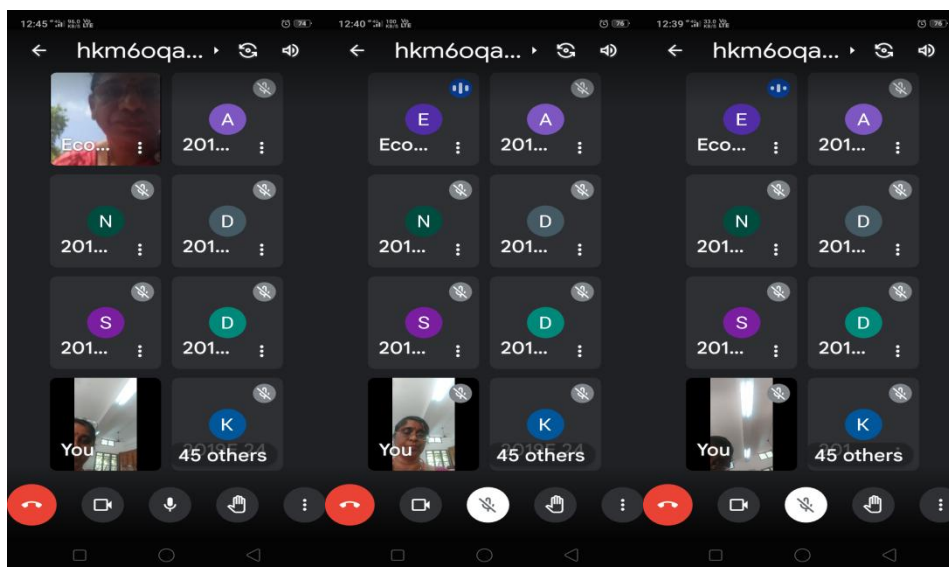
OUTCOME: The participants understood the rights and the procedure to claim in case of exploitation.



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List of Beneficiaries:

S.No	Reg No	Names
1.	2017A56	RAMYA.K
2.	2019A01	AARTHY N R
3.	2019A02	ABINAYA SUNDARI S
4.	2019A03	ABITHAA V
5.	2019A05	AISHWARIYA PRIYA S
6.	2019A06	AJITHA P
7.	2019A07	ALANGARA MONISHA A
8.	2019A08	AMALACHRISTY MEDONA S
9.	2019A09	AMBRIN BANU Y
10.	2019A10	ANANYA E
11.	2019A11	ANUSHKA S
12.	2019A12	ANUSHRI S
13.	2019A14	ARUL JOTHI A(25.09.2001)
14.	2019A15	ARULJOTHI A(07.11.2002)
15.	2019A16	ASSIHA A
16.	2019A17	AYESHA SHIDDIKA H
17.	2019A18	CHRISTLIN JOAN M
18.	2019A19	ELAVARASI J
19.	2019A20	EVANGLEIN MELBA M
20.	2019A22	FRANCIS P
21.	2019A23	GOKILA RANI M H
22.	2019A24	GOKILA S
23.	2019A25	HAZIRA BEGAM N
24.	2019A26	JACKLIN MERCY A
25.	2019A27	JANANI P
26.	2019A28	JEBA SELVA PRIYA R
27.	2019A29	JENIFER M
28.	2019A30	JEYASHREE C S
29.	2019A31	KAVITHA G



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30.	2019A32	KEERTHANA M
31.	2019A33	KOUSHIKA G
32.	2019A34	LAKSHMI PRIYA K
33.	2019A35	M MARIA JOSEPHINE
34.	2019A36	MAHALAKSHMI M
35.	2019A37	MAHALAKSHMI S
36.	2019A38	MANJULA M
37.	2019A39	MARAGATHAM K
38.	2019A41	MONIKA V
39.	2019A42	NANDHINI M
40.	2019A43	NANDINI K
41.	2019A46	NIRMALA NANCY A
42.	2019A47	PANDISELVI R
43.	2019A48	POOJA R
44.	2019A49	PRISCA R
45.	2019A50	PRIYADHARSHINI L
46.	2019A51	PRIYADHARSHINI S
47.	2019A52	ROSY B
48.	2019A53	SANTHANA ANGEL J
49.	2019A54	SARIKA M
50.	2019A55	SAVARI JANSI D
51.	2019A56	SENTHAMARAI P
52.	2019A57	SHALINI L
53.	2019A58	SINDHUJA K
54.	2019A59	SOFIA A
55.	2019A60	SONIYA S
56.	2019A61	SUBIKSHA S
57.	2019A62	SUJA B
58.	2019A64	V SHERIN
59.	2019A65	VINCILIN MARIJA J
60.	2019A66	VIYAKULA VINMALAR L
61.	2019A67	VIYAKULA VINNARASI L
62.	2019A68	YAZHINI S
63.	2019A69	PUVIYA M
64.	2019A70	RIYASHINY M
65.	2019A71	SOWNTHARYAH R M



FATIMA COLLEGE (AUTONOMOUS), MADURAI CYBER SECURITY CELL-RESOURCE CENTRE-NCSSS

Introduction

Fatima College(Autonomous) is a responsible Resource Centre selected by NCSSS(National Cyber Safety and Security Standards), Chennai to conduct various cyber security awareness programmes among students and general public.

Vision

With the internet maturing day by day, threats are increasing and cyber criminals are making news on a daily basis. Every other day, we hear news of cyber criminals hacking into banks, online sites, companies etc. It is very obvious that something has to be done to secure our IT infrastructure. But how does one do it? How does one start? One answer that comes to mind is education, awareness and training. Thus it is necessary to inform people what is needed to secure their systems.

Our nation is facing huge threats from various countries in cyber-attacks and information thefts. National Cyber Safety and Security Standards has taken a visionary initiative to curb and enervate the notoriously spreading cyber threats from various directions and dimensions.

Towards this end, National Cyber Safety and Security Standards is carrying out extensive awareness, training and education campaigns, so that the public are made aware of the dangers of the internet, and how they should be careful and avoid falling into cyber traps.

In addition, National Cyber Defence Research Centre has embarked on setting up cyber security research centres across India, with the objective of conducting research, training and hands on lab environment for universities, industry and professionals. These research labs will also be involved in detecting, analysing and preventing cyber threats/ attacks and forensics.

In brief, NCDRC will be setting up research centers across the country in collaboration with various colleges and universities, with the following primary objectives:

- ✚ To encourage students who would like to take up a career in cyber security.
- ✚ To provide students with a hands on environment, so they can practice what they learn.
- ✚ To provide opportunities towards advanced research and publishing of papers for deserving students.
- ✚ To showcase to industry the environment and skills of students who are a part of the research center.
- ✚ To provide a platform for industry to train their employees in cyber security.
- ✚ To assist industry and Government in cyber forensics.



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✚ Research centers of NCDRC will offer the following courses.

Mission

The main mission of National Cyber Safety and Security Standards is to protect our national critical infrastructure from cyber related threats.

To ensure availability of courses, each college will host one particular research. The different topics that will be conducted are,

- ✚ National Security
- ✚ Web Application Security
- ✚ Networking Security
- ✚ Mobile Security
- ✚ Malware
- ✚ IOT
- ✚ Cyber Forensics
- ✚ Social Engineering

With the internet maturing day by day, threats are increasing and cyber criminals are making news on a daily basis. Safety of women has always been an issue, especially in a country like India where crime rate against women is increasing.

Activities :

- To create an awareness on Cyber safety among the students by conducting cyber safety sessions on regular basis.
- Lectures to promote online etiquette.
- To encourage students who would like to take up a career in cyber security.

Date	Title	Organised	Resource Person
Oct. 08, 2021,	WEBINAR ON CYBER SECURITY	Cyber Security Cell, Fatima College	Mrs. V. Maheshwari, M.Sc., M.Phil., SET. , Head & Assistant Professor, Dept. of Information Technology, Fatima College Mrs. R. Smeeta Mary, M.C.A., M.Phil., (Ph.D). Assistant Professor, PG Dept. of Computer Applications, Fatima College
Oct. 29, 2021	QUIZ COMPETITION ON BASICS OF	Cyber Security Cell, Fatima College	Conducted by Dr.A.Vimala Associate Professor



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	CYBER SECURITY		Department of Computer Science, Fatima College Mrs.S.Mary Helan Felisita, Assistant Professor, Mrs.R.Smeeta Mary, Assistant Professor, Department of Computer Applications (M.C.A) Fatima College
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FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18

RESOURCE CENTRE - NATIONAL CYBER SAFETY AND SECURITY STANDARDS

08 OCTOBER 2021

Fatima College (Autonomous)
Mary Land, Madurai -18.

**WEBINAR
ON
CYBER SECURITY**

Organized By

CYBER SECURITY CELL- RESOURCE CENTRE - NCSSS
Fatima College, (Autonomous), Madurai -18

Session I
"CYBER SECURITY ISSUES IN E-LEARNING"
Mrs. V. Maheshwari, M.Sc., M.Phil., SET. , Head & Assistant
Professor,
Dept. of Information Technology,
Fatima College, Madurai - 18

Session II
"CYBERSECURITY BASICS & PROTECTION"
Mrs. R. Smeeta Mary, M.C.A., M.Phil., (Ph.D) . Assistant Professor,
PG Dept. of Computer Applications,
Fatima College, Madurai -18

OCTOBER 08,2021
TIMING: 2.00 – 3.00P.M



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FATIMA COLLEGE, (AUTONOMOUS), MADURAI -18

WEBINAR ON CYBER SECURITY

Organized By
CYBER SECURITY CELL- RESOURCE CENTRE - NCSSS

AGENDA

Date : 08.10.2021

Time : 02:00 – 3:00 p.m.

WebinarJam Link:

<https://event.webinarjam.com/register/357/r4xrka6z>

Welcome Address: Dr. A. Vimala,
Associate Professor,
Department of Computer Science,
Fatima College.

SESSION I : Mrs. V. Maheshwari, M.Sc., M.Phil., SET. ,
Head & Assistant Professor,
Dept. of Information Technology,
Fatima College.

SESSION II : Mrs. R. Smeeta Mary, M.C.A., M.Phil., (Ph.D).
Assistant Professor,
PG Dept. of Computer Applications,
Fatima College.

Vote of Thanks : Ms.S.Mary Helan Felista,
Head, PG Department of Computer Applications,
Fatima College.

REPORT ON CYBER SECURITY AWARENESS WEBINAR

To commemorate National Cyber Security Awareness Month (NCSAM) during the month of October and to increase the Cyber Security awareness among the students , Cyber Security Cell, Fatima College organized a webinar on 08-10-2021 for all the I UG students.

Dr.A.Vimala, Associate Professor, Dept. of Computer Science proposed the welcome address and introduced that FATIMA COLLEGE is one among the National Resource Center certified by Cyber Security and Safety Standards – NCSSS which is an autonomous body of GOI. She insisted the this is the right time to focus the threats & vulnerabilities of using smart gadgets. Also she pointed that we all are forced to use anyone of the smart gadgets which is the need of the hour. By taking few precautionary steps we can save ourselves and the dear ones too. As digital citizens we have every right to save our anonymity and personal details. Getting into cyber world itself is not dangerous, but playing safe is much important. She emphasized that if any student is victimized by any type of cyber attack like cyber bullying or harassment immediately they should get the help from their parents. Mrs. V. Maheshwari, Head & Assistant Professor, Dept. of Information Technology,



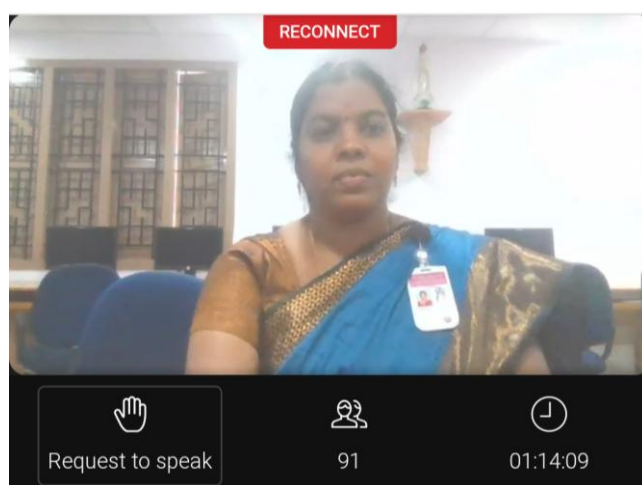
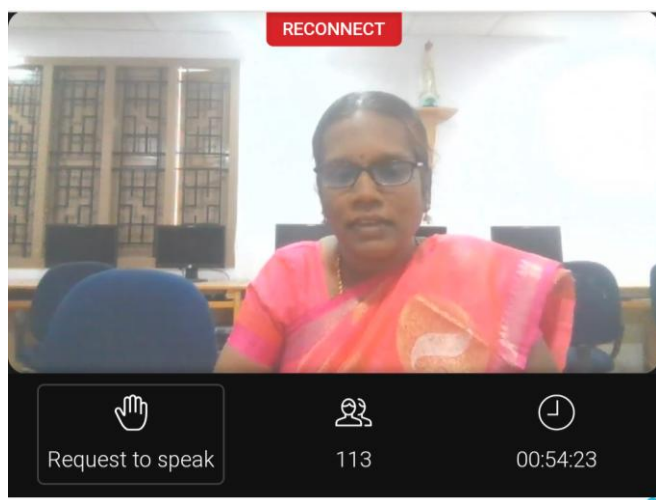
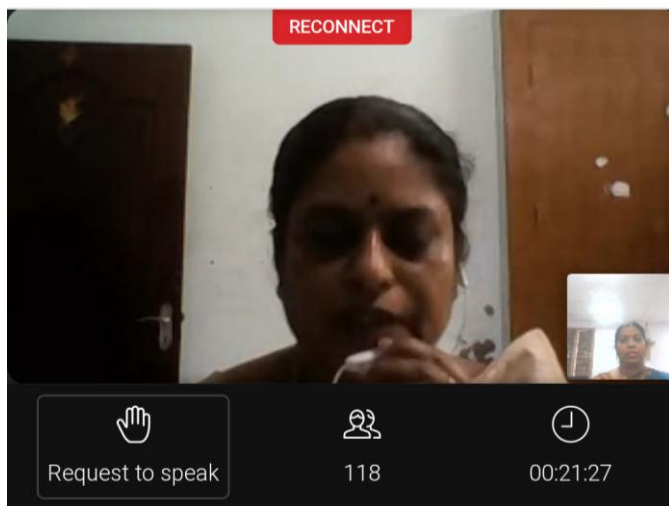
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highlighted the Cyber Security Issues in E-Learning. She also presented the effects of using social media in learning, how hackers can follow the activities of an innocent user and finally provided tips to protect the user activities. Mrs. R. Smeeta Mary, Assistant Professor, P.G Dept. of Computer Applications addressed the students on Cyber Security Basics & Protection. She motivated the students on online banking issues, phishing and other types of online scams. She insisted the need for better security systems availing strong password, how to access the ATMs safely and to use public wi-fi. Mrs. S.Mary Helen Felista, Head, Dept. of MCA felicitated the vote of thanks.

Photos:



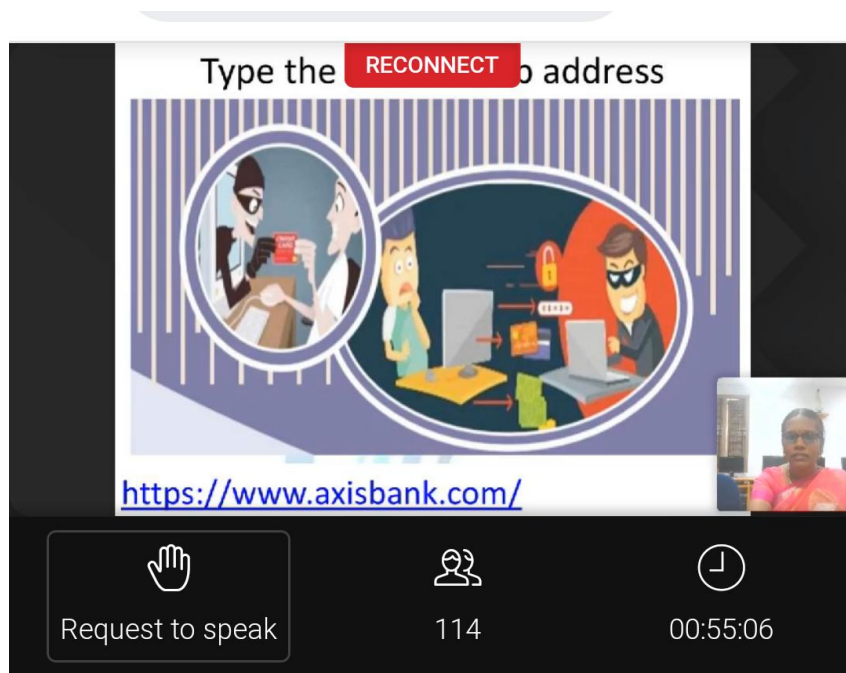


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Staff of P.G Dept. of Computer Applications addressed the students on “Cyber Security Basics & Protection”



PARTICIPANTS LIST

S.No.	REG. NUMBER	NAME
1.	2021H01	M .Abirami
2.	2021H02	A. Abitha
3.	2021H05	Angelo Lancia.J
4.	2021H06	Anu S
5.	2021H17	J.Grecia Shekin
6.	2021H18	Pa.Harini
7.	2021H28	T.Kiruba Sree
8.	2021H29	Meena.S
9.	2021H36	Niranchana A G
10.	2021H64	Mythili.S
11.	2021A02	Y.Afrin Jegananz
12.	2021A03	Aishwarya S
13.	2021A04	K.Ananda Poornima
14.	2021A13	Arul
15.	2021A14	Ashwini
16.	2021A16	Balabharathi.K
17.	2021A28	Harini.M



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18.	2021A29	M. Hepciba Margrate
19.	2021A45	Merlin
20.	2021A46	R. Muthumari
21.	2021A69	Thoorika.S
22.	2021M03	Ameer Nisa
23.	2021M04	Annammal
24.	2021M05	R.Aparna
25.	2021M15	Diffani.J
26.	2021M16	B.Divya
27.	2021M17	Fermi
28.	2021M24	Kavinaya M
29.	2021M25	R.Kavya Dharshni
30.	2021M37	Pionish
31.	2021M38	Praveena
32.	2021M40	S.Priyadharsini
33.	2021M64	D.M.Sunantha
34.	2021N01	Aarthy.K
35.	2021N02	Afrin J
36.	2021N12	D Kavipriya
37.	2021N15	Mathi Ilakkiya
38.	2021N26	Samiha S
39.	2021N31	A.Sherlin Shilvia
40.	2021N40	Vijayashrimathi
41.	2021B05	G.Anto Abisha
42.	2021B07	Basti Monisha.L
43.	2021B12	Hepziba.A
44.	2021B15	Jessipriya.A
45.	2021B17	J.Jeya Sherlin
46.	2021B18	Kaleeswari.S
47.	2021B26	Muthusnekha.V
48.	2021B30	Nandhini.S
49.	2021B36	Sathiya.M
50.	2021B41	Vibil.S
51.	2021B43	B. Sathya Priya
52.	2021P03	S. Abisha
53.	2021p06	Anusuya Mary.R
54.	2021P09	Boomika.R
55.	2021P11	Divain Penni
56.	2021P12	Doncy
57.	2021P16	Jeffrina .J
58.	2021P19	Keerthana.C
59.	2021P20	Kiruthika R
60.	2021P22	Lavanya
61.	2021P28	Roshini. T



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62.	2021p31	Shalinipriya J
63.	2021p34	Thiyathra Risen.R
64.	2021p39	Nancy Beaulah
65.	2021C02	M.Akshara
66.	2021C04	Allwina.S
67.	2021C09	Christy.D
68.	2021c10	Devaki
69.	2021C18	Hemasri B
70.	2021C20	S.Janani
71.	2021C21	Janani
72.	2021C25	Joe Amirtha.A
73.	2021C27	Kanimozhi.V
74.	2021C30	Mactalin Ajitha
75.	2021C32	Priya.M
76.	2021c33	Priyanka
77.	2021C37	Sharmila
78.	2021C43	Swetha.S
79.	2021C44	Thaslima
80.	2021C47	Varshini.T
81.	2021C48	Vishalini
82.	2021C49	Vishva Praba R S
83.	2021C50	R.Yashini
84.	2021E01	Abarna
85.	2021e02	Akila
86.	2021E03	M. Akilarasi
87.	2021E04	Alageswari A
88.	2021E05	S.Angalaeswari
89.	2021E14	K. Gayathri
90.	2021E15	G.Gayathri
91.	2021E17	Harini.P
92.	2021E18	Hemamalini
93.	2021E19	P. Kalaiselvi
94.	2021E21	A.Karthika
95.	2021E23	R. Kiruba Varshini
96.	2021E25	Livitha
97.	2021E26	S.Manisha
98.	2021E28	K. Mohanapriya
99.	2021E30	V.Nageshwari
100.	2021E32	M. Nisha
101.	2021E36	K. Pooja
102.	2021E41	D. Ramya
103.	2021E44	B.Renuga Devi
104.	2021E45	2.02e+48
105.	2021E49	Saranya.M



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106.	2021E51	G.Sharulatha
107.	2021e56	Sugashini
108.	2021E59	Swethaa
109.	2021E63	Vidya.V
110.	2021E66	Vinothini. K
111.	2021E67	B. Vishalini
112.	2021E68	A.Yamini
113.	2021S01	Aafrin M
114.	2021S03	Akila M
115.	2021S05	P.Amritha Sri
116.	2021S06	Angelin B
117.	2021s07	Annie Merlin A
118.	2021S09	Bavani Priya B
119.	2021S10	Bruntha J
120.	2021S11	Dhanushri H
121.	2021S12	Dhivya Prabha
122.	2021S13	Gobika Laxme S
123.	2021S14	K.Harini
124.	2021S17	Joes
125.	2021S19	Kavitha S
126.	2021S20	Keerthana.S
127.	2021S21	Keerthika.Jj
128.	2021S22	Kiruthika J
129.	2021S24	Maha
130.	2021S25	Megala S
131.	2021S30	Sahana S
132.	2021S37	Sobiya P
133.	2021S41	I.Sujitha
134.	2021S42	Thasleem
135.	2021S43	R.Varshini
136.	2021Z08	Gayathri.J.C
137.	2021Z11	Kamali.S
138.	2021Z12	Kanaga Rani.B
139.	2021Z16	Madhubala.K
140.	2021Z20	Nandhana.M
141.	2021Z23	Preethi.M
142.	2021Z25	Priskilla.A
143.	2021Z26	Rajalakshmi.M
144.	2021Z29	Saranya.A
145.	2021Z32	Sheeba.S
146.	2021Z34	Srimathi.C
147.	2021Z35	Sugabala.R
148.	2021Z36	Swetha Sibyl Jeniffer.S
149.	2021Z37	Tamilselvi. A



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150.	2021Z39	Varsha.M
151.	2021Z41	Naveena.A
152.	2021IT03	Asha.R
153.	2021IT05	Fathima
154.	2021IT07	Harsha.B
155.	2021IT11	Kalaranjani.K
156.	2021IT14	K Keerthana
157.	2021IT19	Nandhini.T
158.	2021IT21	K.S.Niranjana Devi
159.	2021IT26	Nivetha R
160.	2021IT29	Rithigadevi.S
161.	2021IT33	Sowmiya.S
162.	2021IT34	Srivarshini.J
163.	2021IT37	Swathi P
164.	2021IT38	Kousalya T B
165.	2021IT39	Thilagavathi.T
166.	2021IT41	Yaalharini.M.U
167.	2021IT45	Vedhika S
168.	2021IT46	Lakshmishree.S
169.	2021ST15	Swetha.M
170.	2021ST05	Deepti
171.	2021ST02	Arockia Swetha
172.	2021st03	Arokia Mervin Joy. M
173.	2021ST07	R.Judith Joan
174.	2021ST01	Akshaya K.S
175.	2021ST18	Vegitha Sai .T
176.	2021AC03	Agalya.C
177.	2021AC05	Amala Reeta.K
178.	2021AC07	Ananthi. V
179.	2021AC10	Bharathipriya.S
180.	2021AC12	Dhurga Selvi.S
181.	2021AC14	Harinee.A.S
182.	2021AC16	Harshitha. K
183.	2021AC18	Juliet Preethi.B
184.	2021AC20	Keerthana.R
185.	2021AC23	Madhu Preetha.N
186.	2021AC26	Manonmani. R
187.	2021AC29	Naga Abirami.M
188.	2021AC31	Nivetha M
189.	2021AC34	Priyadharshni.S
190.	2021AC37	Renuga Devi.P
191.	2021AC39	Roshini. M. B
192.	2021AC43	Shreya Varthane.S
193.	2021AC45	Siberla.C



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194.	2021AC47	Sneha. P
195.	2021AC50	Suriya Devi.P
196.	2021AC54	Tanujaa Raj
197.	2021AC58	Vasima Banu.S
198.	2021AC59	Yuvetha. J
199.	2021AC62	Vaishnavi. V
200.	2021Ac63	R.Saruprabha
201.	2021JM03	M Anitha
202.	2021JM05	K Deepika
203.	2021 JM 12	Janani
204.	2021JM16	D Leena
205.	2021jm23	Rabia
206.	2021JM24	Rajalakshmi K
207.	2021JM26	M.Salma
208.	2021JM29	Subhiksha P
209.	2021JM32	N Swetha
210.	2021JM33	M.Tamilkani
211.	2021JM34	Thamaraiselvi.V
212.	2021LB01	D. Akshaya
213.	2021LB04	Angel Deborah V
214.	2021LB05	S.Angel Fathima
215.	2021LB07	Arockia Fabi Ananthi
216.	2021LB09	Cairlin Vinsy V
217.	2021LB11	R.D.Dharshnasri
218.	2021LB14	Emil Sharon P
219.	2021LB18	K Harini
220.	2021LB19	P. Hemamalini
221.	2021LB20	Jasmin Jerina V I
222.	2021BB07	Divya.N
223.	2021BB11	Jaishali.S
224.	2021BB15	Josedra.V
225.	2021BB18	Kabila.G
226.	2021BB21	Kaviya.K
227.	2021BB23	Kavya Sri.K
228.	2021BB28	Monal.K
229.	2021BB30	Niranjana.V
230.	2021BB40	Ramya.M
231.	2021MB05	Bhuvaneshwari.R
232.	2021MB09	Dharshini.C
233.	2021MB15	Karshi Jaishika. K
234.	2021MB18	K.Kavi Priya
235.	2021MB25	R Mathana
236.	2021MB34	T.Sathyasheela
237.	2021MB39	Vishvajani.G



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238.	2021MB50	Shakthi S
239.	2021MB55	Anushiya. M
240.	2021MB64	S.Keerthana
241.	2021MB69	Manimegalai.S
242.	2021BC01	Abitha
243.	2021BC04	S.Atchaya
244.	2021BC07	N. Dharshini
245.	2021BC16	Janani.V
246.	2021BC20	Nagasree.R.A
247.	2021BC24	M.Nivetha
248.	2021BC32	Sivasorna
249.	2021bc36	M.Swathi
250.	2021BC39	Tharshini R
251.	2021BC40	Trishali
252.	2021BC41	P. Vaishnavi
253.	2021AB01	Abiksha
254.	2021AB08	Emima. S



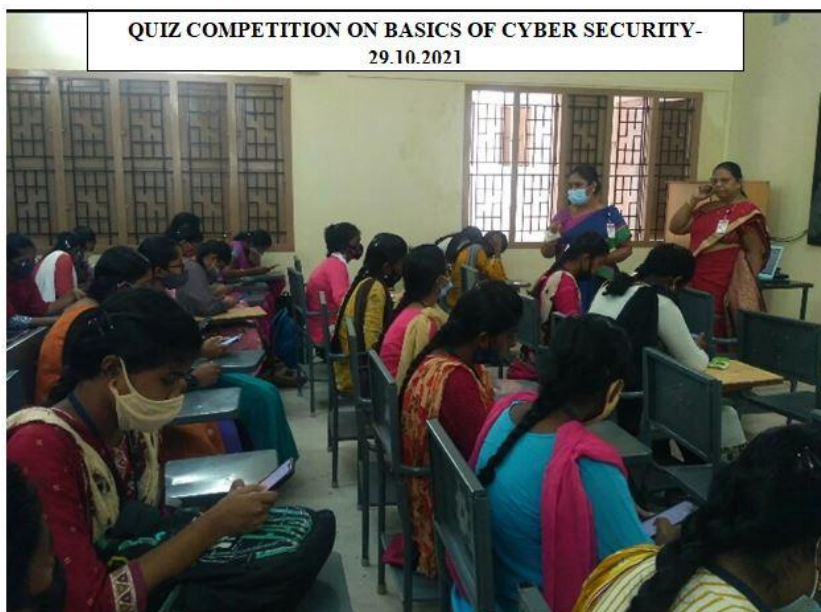
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FATIMA COLLEGE (AUTONOMOUS), MADURAI – 18 RESOURCE CENTRE - NATIONAL CYBER SAFETY AND SECURITY STANDARDS

FATIMA COLLEGE (AUTONOMOUS)
RE-ACCREDITED WITH 'A' GRADE BY NAAC (3RD CYCLE)
COLLEGE WITH POTENTIAL FOR EXCELLENCE
MARY LAND, MADURAI -18.
CYBER SECURITY CELL- RESOURCE CENTRE
NCSSS
QUIZ
COMPETITION
ON BASICS OF
CYBER
SECURITY
DATE : 29.10.2021
TIMING: 11.30 - 12.30 P.M





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REPORT – QUIZ COMPETITION ON BASICS OF CYBER SECURITY

To commemorate National Cyber Security Awareness Month (NCSAM) during the month of October and to increase the Cyber Security awareness among the students, Cyber Security Cell, Fatima College organized a Quiz Competition on 29-10-2021 for the interested students of III UG & II PG.

A material which consists of MCQ on basics of cyber security has been prepared by the coordinators and circulated through online to the students and motivated them to understand the need of individual role in protecting their part of cyber space.

Total number of participants: 119

The student participant list and score has been included.

PARTICIPANTS LIST AND SCORE DETAILS

TIMESTAMP	EMAIL ADDRESS	SCORE	NAME	REGISTER NUMBER
10-29-2021 11:36:43	kritishrikha21@gmail.com	17 / 20	Kriti Shrikha A	2021MCA20
10-29-2021 11:37:14	princyjenifer6383@gmail.com	16 / 20	Jenifer D	2021MCA13
10-29-2021 11:39:48	sowmisowmiya2002@gmail.com	20 / 20	SOWMIYA S	2019MB42
10-29-2021 11:40:51	yohakav18@gmail.com	19 / 20	A. Yoha Lakshmi	2019H59
10-29-2021 11:41:21	2020mca27@fcmdu.edu.in	18 / 20	A. Sharu Lakshmi	2020MCA27
10-29-2021 11:41:29	bis.fazila23@gmail.com	17 / 20	Fazila. S	2020MCA04
10-29-2021 11:42:41	durgadevi27112000@gmail.com	17 / 20	V.B.Durga Devi	2021MCA08
10-29-2021 11:44:14	kannamairajalakshmi@gmail.com	8 / 20	Kannamai.K	2021mca16
10-29-2021 11:44:51	swathimohan0712@gmail.com	20 / 20	Swathi.M	2019bc37
10-29-2021 11:44:51	ashamerlin2002@gmail.com	20 / 20	Asha Merlin. V	2019BC03
10-29-2021 11:45:36	kausiramajaya@gmail.com	7 / 20	R.KAUSALYAA	2020MCA10
10-29-2021 11:46:00	sherlinrajan@gmail.com	20 / 20	R. Sherlin Helina	2020MCA28
10-29-2021 11:46:55	2019h15@fcmdu.edu.in	20 / 20	Gohila Priya .M	2019H15
10-29-2021 11:47:21	bharathi270402@gmail.com	20 / 20	R. Jeya Bharathi	2019E26
10-29-2021 11:47:31	Deepa.v.ganesan@gmail.com	20 / 20	V.G.DEEPA	2019E14
10-29-2021 11:47:33	silviyasahay@gmail.com	19 / 20	L. Silviya Sahay	2020MCA29
10-29-2021 11:48:21	madhubalak622@gmail.com	20 / 20	MS. K. MADHUBALA	2020MCA12
10-29-2021 11:48:52	mydeenbi27@gmail.com	20 / 20	M. MYDEEN BI	2019h35
10-29-2021 11:49:31	2019mb48kiruthikajeyarani@gmail.com	18 / 20	T.Kiruthikajeyarani	2019MB48
10-29-2021 11:49:42	priyankaventhan24.06@gmail.com	14 / 20	Priyanka V	2020MCA19
10-29-2021 11:50:24	swethaswetha89300@gmail.com	5 / 20	E. Rathina Suwetha	2020MCA21
10-29-2021 11:51:19	sushmitharajanmdu@gmail.com	19 / 20	T. Sushmitha	2020MSCB16
10-29-2021 11:51:59	mercypavul@gmail.com	19 / 20	MERCY MAGDALENE P	2020MSCC15



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10-29-2021 11:51:59	ramarohini31@gmail.com	19 / 20	Rama Rohini.B	2020MSCC18
10-29-2021 11:52:07	2020mca05@fcmdu.edu.in	19 / 20	P. Gokilavani	2020MCA05
10-29-2021 11:52:15	pradheepadhanalakshmi@gmail.com	20 / 20	R.Pradheepa	2019s27
10-29-2021 11:52:25	kayalsan1286@gmail.com	17 / 20	C.Kayal vizhi	2019MCA01
10-29-2021 11:53:07	narayananrevathi54@gmail.com	9 / 20	N.Revathi	2020MCA22
10-29-2021 11:53:23	csujithachinnan@gmail.com	18 / 20	C.Sujitha	2019H53
10-29-2021 11:53:55	vincyaru12715@gmail.com	20 / 20	A.Michael vincy	2019MCA02
10-29-2021 11:54:14	umashalini55@gmail.com	15 / 20	V.N.UMA SHALINI	2020MSCB14
10-29-2021 11:54:47	mejala03052000@gmail.com	20 / 20	N.Mejala	2020MCA14
10-29-2021 11:54:50	lavanyashanthi015@gmail.com	15 / 20	Indhumathi S S	2019S15
10-29-2021 11:54:52	murugewari8102000@gmail.com	19 / 20	V. Murugeswari	2020MCA15
10-29-2021 11:54:53	pragathi1708@gmail.com	19 / 20	K.PRIYADHARSHINI	2019S29
10-29-2021 11:54:58	dhazeebasheebabanu@gmail.com	20 / 20	M.BARAKATH NISHA	2020MAH03
10-29-2021 11:55:18	abinayashrimr0823@gmail.com	20 / 20	S Abinaya shri	2019H02
10-29-2021 11:55:20	savithasivaraj1002@gmail.com	20 / 20	Savitha	2020MCA25
10-29-2021 11:55:29	s.karthia051298@gmail.com	20 / 20	S.KARTHIGA	2020MCA09
10-29-2021 11:56:22	madhumitha20cm@gmail.com	19 / 20	Madhumitha.C	2020MCA13
10-29-2021 11:56:30	antonyzitacliton@gmail.com	19 / 20	C.Antony Zita	2020MCA02
10-29-2021 11:57:42	teslaamsylinda008@gmail.com	19 / 20	Tessy Amala.J	2019L65
10-29-2021 11:57:43	keziamissk1999@gmail.com	18 / 20	I. KEZIA	2020MAH02
10-29-2021 11:57:46	mmekalammekala@gmail.com	15 / 20	M.Mekala	2019L70
10-29-2021 11:58:28	raichal0824@gmail.com	20 / 20	Arockia hevila raichal.S	2019L09
10-29-2021 12:00:14	priyapriya9150@gmail.com	17 / 20	Priyadharshini	2020MSIT14
10-29-2021 12:00:37	ratchana0612@gmail.com	19 / 20	Ratchana B	2020MSIT10
10-29-2021 12:02:16	harshanasparkling@gmail.com	12 / 20	P B Harshana	2019M69
10-29-2021 12:02:48	ambrinbanu12022002@gmail.com	18 / 20	Y. Ambrin Banu	2019A09
10-29-2021 12:03:43	shalinichellamuthu1@gmail.com	19 / 20	Shalini.C	2020MCA26
10-29-2021 12:03:50	esakkiammalsrinivasan13@gmail.com	20 / 20	M. ESAKKIAMMAL	2020MATL03
10-29-2021 12:04:09	saranya2017t48@gmail.com	20 / 20	M. Saranya	2020MATL13
10-29-2021 12:04:14	deebika2602@gmail.com	20 / 20	J.Deepika	2020MCA03
10-29-2021 12:04:26	j.reenujose@gmail.com	9 / 20	J.Reenu Jose Jenifer	2019M44
10-29-2021 12:04:29	yaminivenugopal2000@gmail.com	20 / 20	Yamini.V	2020MAEL40
10-29-2021 12:04:30	yamuna.r04051999@gmail.com	20 / 20	R.YAMUNA	2020MAEL41
10-29-2021 12:04:33	m.ramalakshmi29032002@gmail.com	20 / 20	V. Suruthi	2019M59
10-29-2021 12:05:01	sruthi362@gmail.com	20 / 20	R.Sruthi	2019M71
10-29-2021 12:05:04	sarubhiyaa23sekar@gmail.com	7 / 20	Sarubhiyaa.M	2020MCA24
10-29-2021 12:05:32	2020mca06@fcmdu.edu.in	19 / 20	S.janani	2020MCA10
10-29-2021 12:05:41	savarijansi1302@gmail.com	13 / 20	K.maragatham	2019A39
10-29-2021 12:05:42	skiruthika648@gmail.com	8 / 20	S. KIRUTHIKA	2019M29
10-29-2021 12:05:54	tseema2001@gmail.com	18 / 20	Seema. T	2019M52
10-29-2021 12:06:36	gayurakshu2923@gmail.com	16 / 20	S.Gayathri	2020MAEL11
10-29-2021 12:06:46	ramyaravi201@gmail.com	20 / 20	R. Ramya	2019M43



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10-29-2021 12:07:26	michline20052002@gmail.com	17 / 20	M. Michline sowmiya	2019M65
10-29-2021 12:07:48	ruthraharini11@gmail.com	10 / 20	Ruthra harini. R	2020MAEL43
10-29-2021 12:07:50	cathelinkamali@gmail.com	20 / 20	Cathelin Kamali.J	2019M12
10-29-2021 12:07:58	jeniraphael31@gmail.com	13 / 20	R.Jeniferrani	2019M63
10-29-2021 12:08:01	anisasankar12@gmail.com	10 / 20	S. Anisa	2019M06
10-29-2021 12:08:02	ritthijerold@gmail.com	9 / 20	J. Ritthi Nakshathra	2019M47
10-29-2021 12:08:16	mahalaxmimani2512@gmail.com	18 / 20	S. Muthu Lakshmi	2020MAEL21
10-29-2021 12:08:27	abirami9101@gmail.com	12 / 20	A.Abirami	2019M70
10-29-2021 12:08:37	prabhulessy042329@gmail.com	15 / 20	V.P Blessy Jebaseeli	2020MAEL08
10-29-2021 12:08:55	divyateresa07@gmail.com	8 / 20	J. Divya Teresa	2019M15
10-29-2021 12:09:25	umamaheshwari9842@gmail.com	11 / 20	Uma Maheshwari j	2019LB58
10-29-2021 12:09:32	janakianbu94@gmail.com	20 / 20	A. Soundarya janaki	2019LB54
10-29-2021 12:09:37	iniyar2002@gmail.com	9 / 20	R.Iniya	2019M18
10-29-2021 12:10:55	g62gnanam@gmail.com	18 / 20	G.Ishwarya	2020mael15
10-29-2021 12:10:57	gulz.shamila@gmail.com	14 / 20	S. Gulzar Shamila	2020MAEL12
10-29-2021 12:11:01	sijisalomi145@gmail.com	14 / 20	Siji Salomi.M.S	2020MAEL37
10-29-2021 12:11:38	zarifazain8@gmail.com	17 / 20	M.G.Imrana Parveen	2020MAEL14
10-29-2021 12:12:06	gabrielsherifa2001@gmail.com	20 / 20	A. Gabriel sherifa	2019M16
10-29-2021 12:12:08	anansiyajsa@gmail.com	6 / 20	J. Anansiya	2019M05
10-29-2021 12:13:24	p.karthi2311@gmail.com	20 / 20	P.karthika	2019M27
10-29-2021 12:14:34	beulahchristydoss@gmail.com	7 / 20	M.Beulah Christy	2020MAEL07
10-29-2021 12:20:42	meena200832@gmail.com	20 / 20	P. MEENA PANCHAVARNAM	2020MATL06
10-29-2021 12:21:00	thiya03102001@gmail.com	17 / 20	Sathiyalakshmi S	2019B37
10-29-2021 12:21:02	subalakshmi141199@gmail.com	16 / 20	K. Subalakshmi	2020MATL14
10-29-2021 12:21:22	kemilaramesh2002@gmail.com	18 / 20	R.Antony Kemila	2019B45
10-29-2021 12:21:23	s.kamalavenisubramani@gmail.com	19 / 20	S. Kamala veni	2019B18
10-29-2021 12:21:24	jenifernancy200121@gmail.com	19 / 20	J. Jenifer Nancy	2019B17
10-29-2021 12:21:36	krishnavenikannan3333@gmail.com	18 / 20	Krishnaveni.k	2019B20
10-29-2021 12:21:39	poornajothika22@gmail.com	19 / 20	R. Poorna jothika	2019B28
10-29-2021 12:21:39	letiarofrancis@gmail.com	18 / 20	F.Arockiya leticia	2019B05
10-29-2021 12:21:46	rinisha598@gmail.com	18 / 20	Sahaya Rinisha	2019B35
10-29-2021 12:21:47	rexlinfreeda99@gmail.com	10 / 20	A.Rexlin Freeda	2019B32
10-29-2021 12:21:48	muthamilmdu2001@gmail.com	16 / 20	B.MUTHAMIL	2019B26
10-29-2021 12:21:48	rosarynancy26@gmail.com	19 / 20	J Rosary Nancy	2019B33
10-29-2021 12:22:02	arockiaeuginebapista@gmail.com	18 / 20	P. Arockia Eugene Bapista	2019B04
10-29-2021 12:22:12	devadharshini5202@gmail.com	17 / 20	A. DEVADHARSHINI	2019B07
10-29-2021 12:22:12	ayyammalk03@gmail.com	19 / 20	K. Ayyammal	2019B06
10-29-2021 12:22:16	dolphinrino@gmail.com	10 / 20	Dolphin. X	2019B11
10-29-2021 12:22:16	jananiasokaraj1999@gmail.com	15 / 20	Janani A.S	2019B16
10-29-2021 12:22:31	anjelindevadharshini@gmail.com	13 / 20	D.Anjelin Deva Dharshini	2019B03
10-29-2021 12:22:49	vaishu612002@gmail.com	18 / 20	VAISHNAVI	2019B41
10-29-2021 12:22:58	santhiya26062002@gmail.com	18 / 20	Santhiya M	2019B36



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10-29-2021 12:23:04	bgayathri1230@gmail.com	17 / 20	B Gayathri	2019b13
10-29-2021 12:23:27	pandimeenar2002@gmail.com	17 / 20	Pandeeswari.R	2019B27
10-29-2021 12:24:04	kavitharaja1703@gmail.com	16 / 20	M R Preethi	2019B29
10-29-2021 12:24:24	lathalatha8064@gmail.com	19 / 20	S.Latha	2019B21
10-29-2021 12:25:33	lourdhuflomina2345678@gmail.com	15 / 20	L. Lourdhuflomina	2019b23
10-29-2021 12:25:59	tharshini200112@gmail.com	11 / 20	V. Priyatharshini	2019B31
10-29-2021 12:27:02	steliniary90@gmail.com	15 / 20	A. Stelinsiya	2019B40
10-29-2021 12:27:28	dharshinik0805@gmail.com	18 / 20	K.Dharshini	2019B09
10-29-2021 12:29:24	durga25402@gmail.com	14 / 20	S.Durga	2019B12
10-29-2021 12:29:41	mercylawrence@gmail.com	16 / 20	L.mickael mercy	2019B46
10-29-2021 12:39:06	lelavathithulasiraman@gmail.com	17 / 20	T.Leelavathi	2019B22
10-29-2021 13:41:56	maryjosefayou1@gmail.com	19 / 20	MARY JOSEFA . A	2019L42



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Inauguration of Research Cell

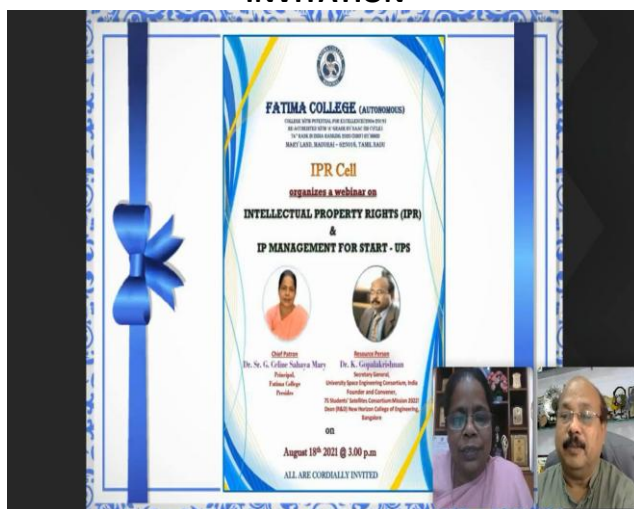
Intellectual Property Rights

August 18th, 2021

Dr.Gopalakrishnan, Secretary General Department of Space Engineering Consortium , India.

Intellectual Property Rights- The Research Advisory committee and IPR Cell , Fatima College(Autonomous), Madurai Jointly organized webinar on Intellectual Property Rights on 18.08.2021 at Webinarjam between 2.00 p.m - 4.00 p.m the Resource person of this webinar was **Dr.Gopalakrishnan, Secretary General, Department of Space Engineering Consortium , India.** and the programme started with almighty god with prayer and Dr.Sr.G.Celine Sahaya Mary, Principal of Fatima College,Madurai, gave introductory remarks of resource person, it followed by the Welcome address by Dr.Jayamala, Director of MCA department, Fatima College, and Master ceremony by Dr.Ragam, Assistant Professor of Physics Fatima College. The session starts with the importance of patent rights. He highlighted the importance of patent rights and clarified the questions raised on start ups and small business. As innovation due to the rapidly advancing technology increasingly becomes core to the college education, campuses are stepping ahead to protect the Intellectual Property Rights (IPRs) of their students and staff members. IPR cell aid students to promote their work. And, it further helps the students in the commercialization of their products, ideas, etc., by attracting potential buyers. Patent registration helps in restricting the competition in terms of commercializing the particular invention in the market. This right further places the inventor in a superior position in the negotiation table for royalty when we decide to license the product. The webinar concluded with vote of thanks proposed by Dr.B.Poornimaa sethupathi, Assistant Professor of History, Fatima College(Autonomous),Madurai.

INVITATION

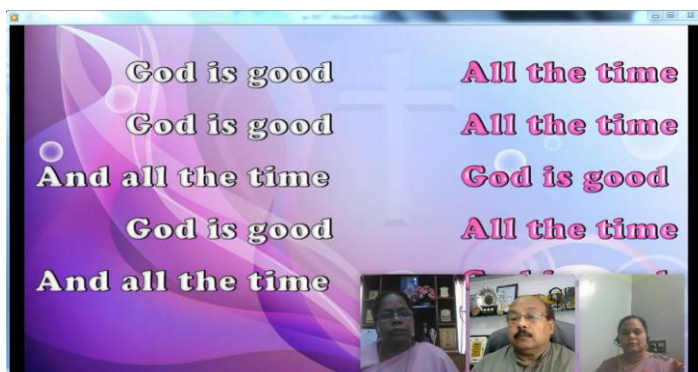




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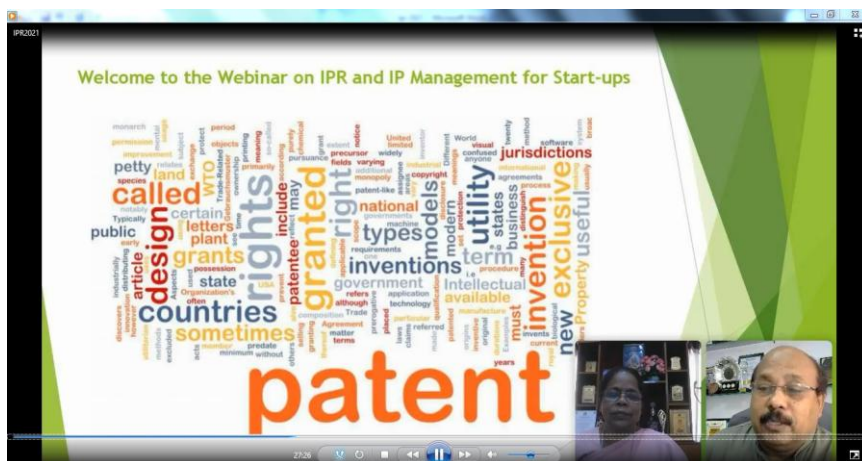
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INTRODUCTORY REMARKS OF RESOURCES PERSON BY PRINCIPAL OF FATIMA COLLEGE



WEBINARJAM STARTS WITH RESOURCE PERSON Dr.GOPALAKRISHNAN



RESOURCES PERSONS STARTUP WITH PATENT AND ITS IMPORTANCE



FATIMA COLLEGE (AUTONOMOUS) MADURAI THE INTELLECTUAL PROPERTY RIGHTS CELL

The Intellectual Property Rights Cell conducted a meeting on 25.11.2020 at M1 between 2.00 p.m - 3.00 p.m to discuss the importance of patent rights among the members of Research Advisory committee.

Dr. Vasantha Esther Rani - Dean of Research–Shift I, highlighted the importance of patent rights and clarified the questions raised on start ups and small business. As innovation due to the rapidly advancing technology increasingly becomes core to the college education, campuses are stepping ahead to protect the [Intellectual Property Rights](#) (IPRs) of their students and staff members.

IPR cell aid students to promote their work. And, it further helps the students in the commercialization of their products, ideas, etc., by attracting potential buyers. Patent registration helps in restricting the competition in terms of commercializing the particular invention in the market. This right further places the inventor in a superior position in the negotiation table for royalty when we decide to license the product. The Research Advisory committee members discussed about their own projects and and the ways of converting into an effective project in the research forum.

The Research Advisory committee members were also motivated to highlight the importance of innovation and patent rights to their Department staff members and students.

By the end of the meeting, staff members were oriented to involve their post graduate students and research scholars to filter their varied innovative ideas into a structured format to be recognized as registered patents. The meeting concluded with vote of thanks proposed by Dr. S. L. Kumari, Dean of Research , Shift II.

LIST OF PARTICIPANTS

1. Dr. Vasantha Esther Rani - Dean –Shift I
2. Dr. S. L. Kumari – Dean – Shift II
3. Dr. S. Sukumari – Asst. Dean – Shift I
4. Mrs. S. Selvarani – Asst. Dean – Shift II
5. Dr. R. Dayana Christy
6. Dr. C. Prasanna Devi
7. Dr. G. Priya
8. Dr. M. Suganya
9. Dr. Sr. G. Jenita Rani
10. Dr. V. Suganya
11. Dr. R. Suji Karthika
12. Dr. S. Barathy



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13. Dr. P. Shyamala
14. Dr. M. Nagarenitha
15. Mrs. V. Aruldeepa
16. Mrs. J. Sahaya Bowlin
17. Dr. T. Vasantha
18. Mrs. H. Shanmuga Priya
19. Dr. B. Jayanthi
20. Dr. P. Vetriselvi
21. Dr. B. Poornima Sethupathi
22. Dr. C. Sujatha



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4.Green Chemistry

GREEN LAB MEASURES – FCCGLM

(Fatima College Chemistry Dept Green Lab Measurements)

UG I Semester: All the volumetric analysis experiments are carried out using **Double Burette system.**

YEAR	Normal Procedure		Green Lab Measures		Saving of solvents/Solutions from per students (ml)	Savings of solvents/Solutions from 40 students (ml)
	For 1 Experiment- Usage of solvents or solutions (ml)	For 12 Experiments (ml)	For 1 Experiment- Usage of solvents or solutions(ml)	For 12 Experiments (ml)		
I UG Chemistry	300 ml	3600	50	600	3000	1,20,000
I UG Zoology (Allied)	300 ml	3600	50	600	3000	1,20,000
I UG Home Science (Allied)	300 ml	3600	50	600	3000	1,20,000
II UG Physics (Allied)	300 ml	3600	50	600	3000	1,20,000
TOTAL SAVINGS FOR FIRST SEMESTER						4,80,000

I Year Procedures

- In the first year of the course, the students are trained to do the volumetric analysis in a double burette method where 60% of water wastage is avoided and also the quantity of the solution used for the titrations are minimised.
- Teaching them to learn to apply the principles of green chemistry at the start of their college science education will allow them more time to firmly establish a foundation in the principles of green chemistry that they can later use in their future careers.



Estimation of Ferrous Ammonium Sulphate

Estimate the amount of Ferrous Ammonium Sulphate (FAS) present in the whole of the given solution. You are provided with a standard solution of Ferrous ammonium sulphate containing 2g in 100ml. The link solution is KMnO_4 .

Titration -I: Std. FAS vs KMnO_4

Burette solution : KMnO_4

Solution: 20ml of std. FAS solution drained from 2nd burette + 1 test tube of dil. H_2SO_4

Indicator : Self

Endpoint : Appearance of pale permanent pink colour

The first end point is noted and again 1ml of std.FAS solution is added from the 2nd burette to the same conical flask solution. The pink colour disappears and again KMnO_4 is added in drops till pale permanent pink colour appears. The 2nd end point is noted. The same procedure is repeated for two more additions of std.FAS and the end points are noted down and recorded.

Make up the given FAS to 100ml in a 100ml standard measuring flask.

Titration -II: KMnO_4 vs made up FAS

Burette solution : KMnO_4

Conical flask solution : 20ml of made up FAS solution drained from 2nd burette +

1 test tube of dil. H_2SO_4

Indicator : Self

Endpoint : Appearance of pale permanent pink colour

The first end point is noted and again 1ml of made up FAS solution is added from the 2nd burette to the same conical flask solution. The pink colour disappears and again

KMnO_4 is added in drops till pale permanent pink colour appears. The 2nd end point is noted. The same procedure is repeated for two more additions of made up FAS solution and the end points are noted down and recorded.



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II Year Procedures

- From the Second year onwards the students perform Inorganic qualitative analysis, in which the hazardous acid evaporation is completely eliminated and the results are found by using the residue and wet reactions. By this method the hazardous vapours are not let in to the campus.
- After they have completed the procedure and analyzed their results, students are challenged in a "Think green inquiry section" to consider what principles of green chemistry are positively impacted and to research particular relevant topics.
- Students shall surely continue on in science or engineering profession

Syllabus highlighting the Green Lab experiments

FATIMA COLLEGE (AUTONOMOUS), MADURAI-18 VOLUMETRIC ANALYSIS – I - 19C1CC3 I UG CHEMISTRY

3hrs/ week

(SEMESTER – I) credits : 2 (For those who joined in 2019 onwards)

COURSE DESCRIPTION

This course trains the students to prepare the solutions of different concentrations

and to estimate quantitatively by different techniques. Double burette method is adopted to minimize the usage of water and chemicals.

COURSE OBJECTIVE

This practical paper deals with the principles of volumetric analysis, classification of reactions in volumetric estimations, (Neutralisation- acidimetry and alkalimetry , Redox reaction – Permanganometry, Dichrometry- Iodometry and Iodimetry titrations)

COURSE OUTCOMES

After completion of the course, the students should be able

- To prepare solutions of desired concentrations .
- To apply the principles of volumetric analysis in acid base, permanganometry, and iodometric titrations.
- To compare the principles behind all types of titrations
- To identify suitable indicators for a particular reaction.

List of titrations involved in volumetric analysis



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- Estimation of Potassium Permanganate
- Estimation of Ferrous Ammonium Sulphate
- Estimation of Ferrous Sulphate
- Estimation of Oxalic Acid
- Estimation of Sodium Hydroxide
- Estimation of Sodium Carbonate
- Estimation of Potassium Dichromate

Reference Book : V.Venkateswaran, R. Veeraswamy & A.R. Kulandaivelu,
Basic Principles of Practical Chemistry, 3rd Edn, 1992.

**FATIMA COLLEGE (AUTONOMOUS), MADURAI-18
INORGANIC QUALITATIVE ANALYSIS-19C3CC9 II UG
CHEMISTRY**

**3hrs/ week (SEMESTER –III) credits : 2
(For those who joined in 2019 onwards)**

COURSE OBJECTIVE: This paper Involves the analysis of inorganic mixtures an acid and basic radicals qualitatively. **Interfering radicals are not eliminated instead alternative procedures are adopted.**

Course Outcomes

After completion of the course the students should be able to:

- Get the knowledge of procedure for group separation and group analysis
- Identify various ions present in mixture of salt
- Recognize the role of oxidizing agents, reducing agents, group reagents and complexing agents.
- Analyse the experimental observations and inferences with theory behind practicals.

Interfering Acid radicals

- Phosphate
- Borate
- Oxalate
- Fluoride

Non interfering acid radicals

- Chloride
- Bromide
- Iodide
- Carbonate
- Sulphate
- Nitrate

Basic radicals

Group I : Lead Group II : Bismuth , copper, cadmium, Group III : Manganese, Iron and chromium. Group IV : Manganese, Cobalt, Nickel and Zinc Group V :



Calcium, Strontium and Barium Group VI : Ammonium and Magnesium

Reference Book :

V.Venkateswaran, R. Veeraswamy & A.R. Kulandaivelu, Basic Principles of Practical Chemistry, 3rd Edn, 1992.

**FATIMA COLLEGE (AUTONOMOUS) MADURAI-18
ORGANIC QUALITATIVE ANALYSIS – II-19C4CC12**

SEMESTER –IV

(For those who joined from 2019 onwards)

3Hours / week

Credits-2

Course Descriptive:

This course gives lab experience on organic qualitative analysis.

Course Objective:

This course gives lab experience on organic qualitative analysis by simple chemical reactions.

Course outcome:

After completion of the course the students should be able to:

- Gain the knowledge of appearance, colour, physical state, and odour of organic substances.
- Distinguish whether the given compound is Aliphatic or Aromatic, and Saturated or Unsaturated.
- Perform the confirmatory test for various functional groups present in the given organic compound.
- Recognize the usage of apparatus and laboratory reagents.
- Relate the experimental observations with theory behind practicals.
- **Avoiding hazardous experiments by doing microlevel eco friendly experiments.**

Organic qualitative analysis

The analysis involving the detection of following characteristics of the given organic compound

1. Whether given organic compound is aliphatic or aromatic
2. Whether given organic compound is saturated or unsaturated



3. Detection of Elements: Nitrogen, Sulphur and halogens
4. Any one of the following functional groups

Carbohydrate Aldehyde

Ketone

Phenol

Amides

Carboxylic Acids

Amines

Nitro compounds

5. Preparation of derivatives for the above functional groups.

Reference Book

V.Venkateswaran, R. Veeraswamy & A.R. Kulandaivelu, Basic Principles of Practical Chemistry, 3rd Edn, 1992.

FATIMA COLLEGE (AUTONOMOUS) MADURAI-18

B.Sc Chemistry-VI SEMESTER

GREEN CHEMISTRY PRACTICALS -III - 19C5CC16

(For those who joined in June- 2019)

3 Hrs/week

2 credits

Objective: This paper includes the greener methods of preparation of Organic compounds and nanoparticles

After the completion of the course the students are able to

To understand the green synthesis methods

To know about the Acetylation/ Propionylation of aniline using water as eco friendly solvent.

To familiarise about the silver nanoparticles by green synthesis

To learn about the preparation of organic compounds by using clay.

To equip the Preparation of Schiff base by microwave technique. □

i) Greener methods of preparation of organic compounds

1. Preparation of bis-naphthol in solvent free conditions
2. Preparation of Aryl nitro compounds via microwave irradiation
3. Preparation of imines using clay.(?)
4. Preparation of Pyrazolone derivatives using microwave irradiation
5. Preparation of Adducts (Diels Alder)

ii) Greener methods of preparation of Nanomaterials (Demonstration)

1. Preparation of Silver nanoparticles from Silver nitrate
2. Preparation of Zinc oxide from Zinc acetate
3. Preparation of Titanium dioxide from Titanium chloride
4. Preparation of Cobalt from Cobalt nitrate
5. Preparation of Copper from Copper sulphate



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Value Education

SEMESTER –I

For those who joined in 2020-2021 onwards

COURSE CODE	COURSE TITLE	CATEGORY	HRS/WEEK	CREDITS
21G1VE1	Personal Values	Lecture / Practical	1	1

COURSE DESCRIPTION

This course aims at creating awareness on self and personal values. The students will also learn to build positive self esteem.

COURSE OBJECTIVES

- To enable students to understand the importance of values for self development.
- To develop self confidence and self esteem.

UNIT-I CORE VALUES

(3 HRS.)

Love - Compassion - Gratitude - Loyalty - Humility - Courage - Steps to develop courage - Endurance.

UNIT –II SELF MASTERY

(3 HRS.)

Self Awareness- SWOT Analysis - self identity - importance - personal identity - professional identity - success map - case studies.

UNIT –III SELF ESTEEM

(3 HRS.)

High and low self esteem - characters - causes - steps to build positive self esteem.

UNIT –IV CASE STUDIES

(2 HRS.)

Case studies on personal values, high and low self esteem.

UNIT –V EXERCISES

(4 HRS.)

Individual:1. SWOT Analysis (Entry and Exit level).

2. Any core value you cherish and follow

Group: Newspaper clippings exhibiting a value that they have learnt.

REFERENCES

1. Shiv Khera. (2000). **You can win**, Macmillan India Ltd.
2. Dr.C.S.G.Krishnamacharyulu and Dr.Lalitha Ramakrishnan. (2012). **Personality Development, Interpersonal Skills and Career Management**, Himalaya Publishing House, New Delhi.
3. BarunK.Mitra. (2012). **Personality Development and Soft Skills**, Oxford University Press, New Delhi.



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4. Cairo Jim. (1998). *Motivation and goal setting*. Career Press, New Jersey, USA.
5. Shiv Khera. (2014). *Living with honour*. Macmillan Publisher, India.

SEMESTER –II

For those who joined in 2020-2021 onwards

COURSE CODE	COURSE TITLE	CATEGORY	HRS/WEEK	CREDITS
21G2VE2	Values for life	Lecture	1	1

COURSE DESCRIPTION

The course aims at creating a positive attitude among students and motivates them to set goals in life.

COURSE OBJECTIVES

- To enable students to learn the importance of self identity.
- To make them know their self worth and value.
- To enthuse them to set specific goals.

UNIT-I ATTITUDE (3 HRS.)

Attitude towards life- Factors determining attitude – Benefits of positive attitude-Steps to build positive attitude-negative attitude - consequences.

UNIT –II MOTIVATION (3 HRS.)

Difference between inspiration and motivation, external and internal motivation, demotivating factors, steps to motivate others.

UNIT –III GOAL SETTING (3 HRS.)

Goal setting and its importance - reasons for not setting goals - steps in goal setting - Meaningless goals

UNIT –IV CASE STUDIES (3 HRS.)

Case studies on people with positive and negative attitude and on inspiring people.

UNIT –V EXERCISES (3 HRS.)

Individual: 1. Setting short and long term goals.

2. Source of motivation

Group: Finding solutions with a positive attitude for selected case studies .

REFERENCES

1. Shiv Khera (2000), *You can win*, Macmillan India Ltd.



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2. Dr.C.S.G.Krishnamacharyulu and Dr.Lalitha Ramakrishnan (2012), **Personality Development, Interpersonal Skills and Career Management**, Himalaya Publishing House, New Delhi.

3. BarunK.Mitra (2012), **Personality Development and Soft Skills**, Oxford University Press, New Delhi.

4. Motivation and goal setting – Jim Cairo

5. Living with honour – Shiv Khera

WORKSHEETS TAKEN FROM:

Koikara, Felix. *Live Your Values*. Chennai: Don Bosco Youth Animation Centre, 1990. Print.

SEMESTER –III

For those who joined in 2020-2021 onwards

COURSE CODE	COURSE TITLE	CATEGORY	HRS/WEEK	CREDITS
21UAD3ES	Professional Ethics	Lecture	1	1

COURSE DESCRIPTION

The course aims at creating ethical values among students and motivate them to set goals in life, based on the ethical values.

COURSE OBJECTIVES

- To make them know Ethical values
- To enable students to learn about ethical leadership.
- To enthuse them to behave significantly in this digital era.

UNIT-I INTERPERSONAL AWARENESS & LEADERSHIP (3 HRS.)

Trust and relationship- resolving interpersonal problems. Leadership- Qualities of a good leader.

UNIT –II ETHICAL VALUES (3 HRS.)

Ethics - Sources of Ethical values-Professional Ethics-Factors that modify ethical values-Solving ethical Problems-Five rules for ethical behaviour.

UNIT –III DIGITAL CITIZENSHIP (3 HRS.)

Good digital etiquette-bad digital etiquette- Netiquette -Whats App Etiquette and Cyber bullyin

UNIT –IV Case Studies (2 HRS.)

Case studies on ethics depicted by great leaders in their life

UNIT –V EXERCISES (4 HRS.)



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Individual: 1. Write up on the person whom you admire the most and the quality that inspired you.

2. Professional Ethics

Group: Positive and negative impact of internet, mobile phones, and social media.

REFERENCES

1. Shiv Khera (2000), **You can win**, Macmillan India Ltd.
2. Dr.C.S.G.Krishnamacharyulu and Dr.Lalitha Ramakrishnan (2012), **Personality Development, Interpersonal Skills and Career Management**, Himalaya Publishing House, New Delhi.
3. BarunK.Mitra (2012), **Personality Development and Soft Skills**, Oxford University Press, New Delhi.

WORKSHEETS TAKEN FROM:

Koikara, Felix. *Live Your Values*. Chennai: Don Bosco Youth Animation Centre, 1990. Print.

SEMESTER –IV

For those who joined in 2020-2021 onwards

COURSE CODE	COURSE TITLE	CATEGORY	HRS/WEEK	CREDITS
21UAD4ES	Personality Development	Lecture	1	1

COURSE DESCRIPTION

This course offers insight into personality development, time management and tackling procrastination.

COURSE OBJECTIVES

- To realize the importance of relationships.
- To hone their leadership qualities.
- To value time and manage it responsibly.

UNITS

UNIT –I PERSONALITY DEVELOPMENT (3 HRS)

Steps to build positive personality-Steps to build personality.

UNIT –II TIME MANAGEMENT (3 HRS)

Meaning-Process of time management- Strategies of time management.

UNIT –III TACKLING PROCRASTINATION (3 HRS)

Why do you procrastinate – Effects of Procrastination - Overcoming procrastination.

UNIT –IV CASE STUDIES (3 HRS)



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Life history of popular personalities, Cases of ideal and poor time management, Causes and consequences of procrastination

UNIT -V EXERCISES

(3HRS)

Individual: 1. Describing them self based on their Traits, Values practises, Behaviours with friends, family and strangers.
2. Overcoming procrastination

Group: As a Team real life time management experiences should be presented.

REFERENCES:

1. Dr. C. S. G. Krishnamacharyalu and Dr. Lalitha Ramakrishnan. (2012). **Personality Development, Interpersonal Skills and Career Management.** Himalaya publishing house, New Delhi.
2. Marc Mancini. (2005). **Time management.** Tata Mc Graw-Hill Publishing Co Ltd, New Delhi.
3. Abishek Thakaro. (2013). **Super students.** Pustak Mahal, New Delhi.

SEMESTER - VI

For those who joined in 2020-2021 onwards

COURSE CODE	COURSE TITLE	CATEGORY	HRS/WEEK	CREDITS
21UAD6ES	Life Skills	Lecture	1	1

COURSE DESCRIPTION

This course develops life skills in students and throws insight on qualities of a successful person.

COURSE OBJECTIVES

1. To learn the basic skills required for life
2. To gain skills to overcome obstacles and succeed in life

UNIT -I LIFE SKILLS

(3 HRS)

Problem solving- Critical and creative thinking- Decision making- Managing emotions

UNIT -II SUCCESS

(3 HRS)

What is success?- Obstacles and overcoming obstacles- Choices and compromises- Qualities of a successful person- Reasons for failure, recipe for success

UNIT -III GIVING BACK TO SOCIETY

(3 HRS)



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To Family, To Schools, To Colleges.

UNIT –IV CASE STUDIES

(3 HRS)

Problem solving, decision making case studies, successful personalities and persons who give back to society

UNIT –V EXERCISES

(3 HRS)

Individual:1. Chart work on Road map to success

2. Life skills you wish to develop

Group: Analysis of case studies

REFERENCES:

1. Department of Foundation Course.(2010).**An Introduction to Personality Development**. Arul AnandarCollege, Karumathur.
2. Capt.RaviMahajan.(2011).**Yes We Can Together**.Do Good publishers,Chennai.
3. Barun K Mitra.(2011).**Personality Development and Soft Skills**. Oxford University Press, Delhi.
4. C.S.G.Krishnamacharyulu& Lalitha Ramakrishnan.(2012).**Personality Development, Interpersonal Skills and Career Management**.Himalaya Publishing House,Mumbai.
5. Khera, Shiv.(2001). **You Can Win**. Macmillan India Ltd, New Delhi.
6. Koikara, Felix.(1990).**Live Your Values**. Don Bosco Youth Animation Centre, Chennai.