



# MES KALLADI COLLEGE, MANNARKKAD

Re-Accredited by NAAC with A+ Grade (CGPA 3.32)

Mannarkkad College P.O., Palakkad District-678583

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## ANNUAL REPORT

## INTERNAL QUALITY ASSURANCE CELL

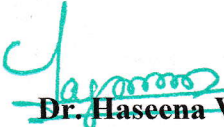
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«« 2021-22 »»

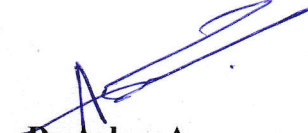
## PREFACE

The academic session 2021-22 witnessed the gradual come back of offline academic activities after the pandemic. Various departments, clubs and cells conducted activities aimed at the enrichment of academics and research outcome. IQAC contributed significantly in these activities.

The internal quality and assurance cell has actively involved in the development of different quality initiative for the better academic environment. We thank the contributions of different stakeholders in our journey towards quality education

  
**Dr. Haseena V A**

**Principal & Chairman, IQAC**

  
**Dr Azhar A**  
**IQAC Coordinator**



## IQAC Composition and Activities

No. of Teachers	9
No. of Administrative/Technical staff	1
No. of students	1
No. of Management representatives	1
No. of Alumni	1
No. of any other stakeholder and community representatives	1
No. of Employers/ Industrialists	1
No. of other External Experts	1
Total No. of members	16

### **IQAC Members**

<b>Name</b>	<b>Designation</b>
Shihab A M Principal	Chairperson
Dr Haseena V A	Co-ordinator
Dr. A. Azhar	Joint Co-ordinator
Mrs. A. Sajna	Management Representative
Mr. P. H. Muhammed	External Expert
Mr. C.U. Mujib	Member from Industry
Mr.KCK Sydali	Member
Dr Renjith	Member
Mrs. UK. Saritha	Member
Dr. K. Sereena	Member
Dr T Zainul Abid	Member
Dr.T. N. Muhammed Musthafa	Member
Mrs. Jasmin	Member from Office Administration
Mr. Kazim Alayan	PTA Representative
Adv. Ajith	Alumni Representative
Chairman, College Union	Student Representative

No. of IQAC meetings held	11
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### Seminars and Conferences (only quality related)

#### (i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total No.	11
International	0
National	2
State Level	0
Institution Level	9

#### (ii) Themes

- 1) Research Methodology
- 2) Role of Science in society, industry and medicine
- 3) Innovation and entrepreneurship
- 4) Learning Management System
- 5) Digital Tools for Effective Teaching-Learning

#### **Significant Activities and contributions made by IQAC**

- The IQAC has initiated to launch B.Voc Courses for ensuring the placement of the students.
- IQAC has conducted more number of awareness programme on higher education and placement. Competitive exams orientation was also conducted
- In order to facilitate better ICT enabled teaching leaning process
- More number of computers were added to Computer lab
- Diverse certificate programme was introduced for skill development and employment
- Students have undertaken more number of field work for experiential learning

## **REPORT**

### **International webinar on “Cholesteric liquid crystal Elastomers”**

College has Organized an International webinar on “Cholesteric liquid crystal Elastomers” on 03/07/21 in association with department of Chemistry. Dr. Rijeesh Kizhakkidathazhath, Post- Doctoral Fellow, Physics & Material Research Unit, University of Luxembourg was key resource person for the programme. Dr Muhammed Mustafa, Head of the department of chemistry introduced the guest and Prof. Shihab A M, principal, MES Kllsdi college Mannarkkad inaugurated programme.

### **National Seminar on The Metaphysics of Terror: Literary, Political and Cultural Imaginings**

Department of English has conducted a National Seminar on The Metaphysics of Terror: Literary, Political and Cultural Imaginings on 14<sup>th</sup> July 2021. The seminar was presided by the Head of the department of English and the principal of the college inaugurated the seminar

### **National Seminar on ‘Mannarkkad in the Freedom Struggle**

Department of Arabic and Islamic History Conducted a National Seminar on ‘Mannarkkad in the Freedom Struggle in association with ‘Mahakavi Moinkutty Vaidyar mappila Kala Academy’, Government of Kerala on 07/10/2021. Department also organized a Book launch programme on Freedom Fighter Kumaraputhur Seethikoya Thangal’s biography in collaboration with the local public and Kumarampuhoor Gramapanchayath

## **Activities organised by various departments**

### **Department of Chemistry**

Being a research department, members of faculty has published 7 research papers and in various journals of international repute. In the year 21-22, Dr. Mohammed Musthafa. T.N submitted Science Research Scheme project to KSCSTE as Principal Investigator titled Eco-Friendly Multicomponent Synthesis, Characterization, Biological Evaluation, DFT And Molecular Docking Studies of Noval Isatin Derived Imidazoles, A Chemical, Computational and Microbiological Approach - 30 Lakhs Major Research Project. Dr. Sreenivasan. KP and Dr. Mohammed Musthafa. T. N obtained KSCSTE Student Research Projects. The department has signed five MOUs with different academic institutions and industry and six research collaboration including King Abdul Aziz University, Saudi Arabia and Tokyo Institute of Technology, Japan. As a part of their innovation programme the department has organized CHEMSANZ-2021. It includes the Preparation of high quality soaps, detergents, floor cleaning liquids, dish wash etc by using easily available lab chemicals through the students and marketing the product

The other activities of the department are as follows:

1. Organized World Environment Day Celebrations 2021 “Restoration of western Ghats, Issues & Challenges” on 10/06/2021 at 11.00 am. Resource person- Dr. Jain J Therattil, Assistant Professor, Department of Zoology, St. Aloysius College, Thrissur- Coordinator- Dr. Sreenivasan. KP.
2. Organized an International webinar on “Cholesteric liquid crystal Elastomers” on 03/07/21- Resource person- Dr. Rijeesh Kizhakkidathazhath, Post Doctoral Fellow, Physics & Material Research Unit, University of Luxembourg. Coordinator- Ms. Nusrath. P.
3. Organized an International webinar on “RESEARCH METHODOLOGY CHEMISTRY” on 03/07/21- Resource person- Dr. Rijeesh Kizhakkidathazhath, Post-Doctoral Fellow, Physics & Material Research Unit, University of Luxembourg. Coordinator- Ms. Nusrath. P
4. Organized Chemistry Alumni Meeting on 02-08-2022. Former Education Minister Prof. Raveendranath has inaugurated the programme.
5. Organized an International webinar on “Introduction to Nanotechnology and Electro deposition of Transition Metal Dichalcogenides” on 07/08/21- Organized by

Research & Post Graduate Department of Chemistry MES Kalladi College, Mannarkkad (Resource Person-Dr. Shubin Thomas, University of Southampton, United Kingdom).

6. Organized an International webinar on “Optical control of Neuronal Ion Channels and Receptors” on 18/09/21- Organized by Research & Post Graduate Department of Chemistry MES Kalladi College, Mannarkkad (Resource Person-Dr. Anees Palavuravan, Department of Chemistry, University of Chicago, Chicago USA).
7. Organized an International webinar on “Research Methodology in Chemical Sciences” on 18/09/21- Organized by Research & Post Graduate Department of Chemistry MES Kalladi College, Mannarkkad (Resource Person-Dr. Anees Palavuravan, Department of Chemistry, University of Chicago, Chicago USA).
8. Organized National Science Day Celebrations- Andro Siansa- Integrated Approach in Science and Technology for a sustainable Future -2022 on 28/02/22- by Research & Post Graduate Department of Chemistry MES Kalladi College, Mannarkkad
9. Organized Career Guidance and Counselling Class by Mr. K. Rajan, Director, Professors Academy of Engineering Olavakkod on 09-03-2022 by Research & Post Graduate Department of Chemistry MES Kalladi College, Mannarkkad
10. Organized Get Together of Chem Gems on 15/03/22- by Research & Post Graduate Department of Chemistry MES Kalladi College, Mannarkkad
11. Organized Scientia Magicae- Science Exhibition 2022 on 22/03/22- by Research & Post Graduate Department of Chemistry MES Kalladi College, Mannarkkad
12. Organized Webinar on Introduction to Intellectual Property Rights by Dr. Basil B Mathew, Assistant Professor & HoD of Political Science, St. Peters College, Kolenchery on 24/03/22- by Research & Post Graduate Department of Chemistry, MES Kalladi College, Mannarkkad
13. Organized Interaction with an Entrepreneur (ED programme) by Mr.K.T. M Abdussalam, Chairman & Managing Director of KTB-SAFA Group of companies on 26-03-22 by Research & Post Graduate Department of Chemistry, MES Kalladi College, Mannarkkad

### **Department of Commerce (Aided)**

Department of Commerce also contributed their part in the quality enhancement process of college. one of the student from the department obtained Chief Ministers Merit Scholarship of 1lakh. department has conducted Awareness programs to Kudumbasree members on Mobile banking & Basics of Accounting & Book Keeping

The other activities of the department are as follows:

1. Organised a National Webinar on BSE -Capital Market (Resource Person: Dr. Pankaj Mathkar, Lotus Knowl wealth, Mumbai)
2. Conducted a best manager event in association with GIMS- Cochin
3. Conducted a training programme on Leadership & Capacity Building (Resource Person: Mr. Sivakumar)
4. Organised a workshop on SPSS- (Resource Person: Nabeel Muhammed)
5. Organized a seminar on Career opportunities in Advertising- (Resource Person: Fawaz Abdul Raheem)
6. An invited talk was conducted on GST (Resource Person: Rahul MS, Transparent Academy, Palakkad)

### **Department of English**

Department of English has conducted a National Seminar on The Metaphysics of Terror: Literary, Political and Cultural Imaginings on 14<sup>th</sup> July 2021. Moreover, the department has conducted one day National Seminar on Reading Day on 19/06/2021. A research methodology workshop also conducted to inculcate the research culture among the students. A manuscript magazine named SPLASH published in connection with the Literary Fest on 25/03/2022

The other activities of the department are as follows:

1. Conducted a Certificate Course Titled “Critical Thinking and Accuracy in Professional Writing” with an intake of 30 students.
2. Orientation Programme on Research Ethics and Intellectual Property Rights on 28/03/2022
3. One Day Workshop on Research Methodology on 05/03/2022
4. Conducted an Interaction with an entrepreneur on 26/03/2022
5. Conducted a talk on Gender and Performing Arts on 31/03/2022



### **Department of Physics**

Department of physics has done their quality documentation process in a very systematic manner. The department designed and constructed an automatic sanitiser dispenser under the leadership of mechanic and M.sc lab assistant Mr. Fayiz A.P and handed over to the college office. Department has conducted National Webinar on Research methodology on 26/03/24.

The other activities of the department are as follows:

1. A webinar on Intellectual property rights on 19/03/2022
2. Career guidance session on Computer Science after B.Sc Physics on 26/03/2022
3. National Science Day celebration- Documentary exhibition on 28/02/2022
4. Women's day programme – seminar on legal strength of women on 8/03/2021
5. Career guidance programme in association with Avodha on 30/03/22

### **Department of Botany**

Department of botany has done a very good Contribution in the improvement of quality process of the college. Department has engaged in the various distinct process such as Farming, home gardening, pisciculture, Taxonomic survey, Flora identification and Survey, and Seed ball preparation. The department has prepared an Online flip book titled 'Butterflies around us. The department has donated seed balls to Mannarkkad Municipality for the purpose of afforestation and conservation of rare and endangered forest and local tree varieties. Moreover, the department has assisted in identifying and labelling the flora of MES Engineering College, Kuttipuram. Department of Botany has offered Certificate course on Mushroom cultivation

The other activities of the department are as follows:

1. Conducted Environment Day Celebration – Organized Puzzle competition, Video making and Online Quiz on 5<sup>th</sup> June 2021. Live Green' – Screening of a video prepared by the students on the occasion of World Environment Day. The World Environment Day special program was conducted through Google Meet. The club members had prepared and screened a video consisting of the photographs and quotes made by them.
2. National level Speech Competition on 'Project Tiger' - In connection with International Tiger Day.

3. Panel Discussion on ‘Ozone Depletion’- In connection with World Ozone Day
4. Conducted Intercollegiate Speech Competition on the topic “Project Tiger - Success or Failure?” as part of International Tiger Day on 29/07/2021.
5. A Poster making competition on “Forests and livelihoods: Sustaining people and planet” was conducted in connection with Wild Life Week observations 2021.
6. A Wildlife photography competition and a Wildlife Puzzle Competition was conducted in connection with Wildlife Week observations was conducted in connection with Wildlife Week observations 2021.
7. SPLASH’ - Face painting competition was conducted in Connection with Wildlife Week Observation
8. In connection with Wildlife week observation Second BSc Botany students prepared a Flip book -’Butterflies around us’ and published on 08-10-2021 and the programme was inaugurated by Pro. A.M Shihab, Principal, MES Kalladi College, Mannarkkad.
9. A quiz competition on the occasion of National Bird Watching Day was conducted on 12th November 2021. 14 students from various departments participated in the competition. Muhammed Basim, 3rd year BSc. Chemistry student won the 1st prize and was awarded a cash prize of Rs.500/-.
10. An exhibition was conducted in the open auditorium in association with World Wetland Day.
11. Interstellar, a Sci-Fi movie was screened in connection with National Science Day. It inspired the students to stay in science and do great research.

### **Department of Arabic and Islamic History**

Department of Arabic and Islamic history has organized different academic programmes to enrich the academic quality in the college. Conducted a National Seminar on ‘Mannarkkad in the Freedom Struggle’ in association with ‘Mahakavi Moinkutty Vaidyar mappila Kala Academy’, Government of Kerala on 07/10/2021. Department also organized a Book launch programme on Freedom Fighter Kumaraputhur Seethikoya Thangal’s biography in collaboration with the local public and Kumaramputhoor Gramapanchayath. As a part of the world Arabic day, the department has organised a seminar on Arabic Languages on 23/12/21.

The other activities of the department are as follows:

1. Conducted Constitution Day Celebration in collaboration with NCC Naval Wing, MESKC on 26<sup>th</sup> November. Dr. Jabir TK, Faculty, School of International Relations & Politics, Mahatma Gandhi University, Kottayam delivered the lecture on “*Revisiting the Indian Constitution*”.
2. Conducted Alumni meeting of different batches (2013 batch held on May 2021,
3. 2015 batch held in October 2021 and common department Alumni Meet was
4. Conducted on 9<sup>th</sup> January 2022.
5. A Programme Conducted on the Topic Prime Time with Alumni by T Mohammed Yakoob- Civil Police officer DHQ Palakkad
6. conducted the entrepreneur Programme on 30-03-2022 at seminar hall
7. IPR Programme conducted on the topic of Research Ethics & IPR
8. Conducted a webinar on the scope of Arabic and foreign languages

### **Department of Economics**

Department has arranged their document in the proper manner. Faculty members of the department have produced good number of journal publication. 3 The PG Department of Economics, MES Kalladi College, Mannarkkad, organized a webinar on the topic “FEMININE PSYCHOLOGY” on 12/03/2022 in connection with International Women’s Day.

The other activities of the department are as follows:

1. The PG Department of Economics, MES Kalladi College, Mannarkkad, organized a WEBINAR on the topic “FUNDAMENTALS OF SOCIAL SCIENCE RESEARCH” on 07/01/2022 Dr. SMITHA P, Assistant Professor, Department of Economics, Govt. College Chittur handled the Session.
2. The PG Department of Economics, MES Kalladi College, Mannarkkad, organised a WEBINAR on the topic “AN INTRODUCTION TO DATA ANALYSIS USING SPSS” on 10/09/2021 Dr. JINS VARKEY, Assistant Professor, Department of Economics, St. ALOYSIUS COLLEGE THRISSUR handled the Session.
3. The PG Department of Economics, MES Kalladi College, Mannarkkad, organized a pencil drawing competition on the topic “women and environment” on 04/03/2022 in connection with International Women’s Day
4. The PG Department of Economics, MES Kalladi College, Mannarkkad, conducted a survey on the topic “Problems and Issues of College Female Students: A Study of MES Kalladi College Mannarkkad”.

5. Conducted on the topic of ‘Introduction to Intellectual Property Rights `on 14<sup>th</sup> March 2022, presented by Dr Jabir, Faculty, School of International Relations, MG University, Kottayam.
6. Conducted a programme on the topic of ‘Key Ideas to Intellectual Property Rights ‘on 25<sup>th</sup> March 2022 presented by Noorjahan. KK, Assistant professor, Department of political science, MES Kalladi College, Mannarkkad.
7. The PG Department of Economics, MES Kalladi College, Mannarkkad, organized a WEBINAR on the topic “MEET THE ENTREPRENURSHIP” on 25/03/2022 Dr. NOOR MUHAMMED, Managing Director, Kalliyath Steels.

### **Department of History**

Department of history maintained their records in a proper manner and considered to be one of the main research centres in tribal research. Department has an MOU with PSMO college Thirurangadi. Department has submitted the -Research Proposal submitted to KCHR, Thiruvananthapuram on 22/01/2021 one of the students from the department Jishna K got gold medel in International Level.

### **Department of Mathematics**

Department of mathematics has maintained their files in a proper manner. It has contributed the quality enhancement process of the College. Department has conducted webinar on Singular value decomposition conducted by department of mathematics on 31/07/21 resource person Prof. Santhosh George, Department of MACS, NIT, Katnataka.

The other activities of the department are as follows:

1. Webinar on Mathematics Behind Google Search conducted by department of mathematics on 11/09/21, resource person Dr.Indulal G, Associate Professor, St.Aloysius College, Edathua.
2. Department of Mathematics and Department of Chemistry jointly organized seminar on Career Guidance and Counselling handled by Mr.K.Rajan, director, Professors Academy of Engineering, Olavakkode on 9/03/22.
3. Seminar on “Introduction to Entrepreneurship” by Dr. Sainul Abidin K, Assistant Professor in Deapartment of Physics, MES Kalladi College on 24/03/22.
4. National webinar on “Gender Equality and Human values” by Nima R, ICTC Counsellor, taluk hospital, Ottappalam on 24/3/22.

### **Department of Commerce (Self)**

Department wise file documentation has done in a proper way. Department has organized various seminar and webinars related to IPR Research Methodology and Entrepreneurship. Department has organized webinar on Cooperative Education On 15/11/2021. Conducted a National Webinar on RESEARCH METHODOLOGY By Muhammed Aslam- Moulana Azad University, Hederabad on 09/08/2021

The other activities of the department are as follows:

1. National Webinar on Roll in IPR in the Digital Era by Raveendran - Assistant Professor PG department of Commerce Tirupur, Tamilnad on 29/09/2021
2. Cooperative Week Celebration in Association with MES Asmabi College Vemballur 15/11/2021- 19/11/2021
3. Webinar on Cooperative Education by Sidhik Akbar- Special grade senior Cooperative Auditor, Perinthalmanna 15/11/2021
4. International webinar on Capital Market Awareness by Pankaj Mathkar in Association with Bombay Stock Exchange 27/11/2021
5. Career development Program provided by Mr. Shabeer Ali - Innovative Learning Academy, Perinthalmanna 22/03/2022
6. A Seminar on Democracy and Gender Equity by Amrutha – HoD, Dept. of Mass Communication and Journalism, MES KC Mannarkkad 11/03/2022

### **Department of Computer Science**

Department of Computer science has done their documentation process in the correct manner. Department has organized Tech Talk-A virtual knowledge Development Program for Fresher's on 03/07/2021. A workshop conducted on Upskill Yourself for the Challenging World on 30/09/2021. The students of the department has developed various apps such as 'Dream home', 'Smart Shop', 'Safe Kerala' as part of their project work.

The other activities of the department are as follows:

1. Organized a seminar on Getting Role in IT Field on 31/05/2021
2. Conducted a seminar on Software Development and its Trends on 24/07/2021

3. conducted a seminar on Importance of Academic Projects on 09/08/2021
4. conducted a seminar on Upskill Yourself for the Challenging World on 30/09/2021
5. conducted a seminar Take a look inside the Enigmatic Cyber world on 01/12/2021

### **Department of Mass Communication**

Department has documented their files in proper format. A media fest was organised by the department called 'LA LIBERETE' on 15 March 2022. A manuscript magazine named 'GAZALI' was prepared by the students of the department. Moreover, it has conducted Research Methodology Workshop on 7-JANUARY- 2022, and Contemporary Film Making workshop on 25-JANUARY- 2022. Department created a short film 'METH TO MOTHER' as part of vimukthi mission short film competition. Department has provided reporting and editing class with tribal students at Attappadi Department has conducted the PTA meeting at regular intervals.

The other activities of the department are as follows:

1. Organized massflix monthly film festival on 7-march-2022
2. Conducted career guidance student interaction session on 9-march-2022
3. Conducted entrepreneurship development programme on 25-march -2022
4. Conducted a gender equity in digital era on 08-december-2022

### **Department of Food Technology**

Department of food technology documented their activities in systematic manner. As part of world food day department organized a webinar titled food science- future & inventions on 27-oct-2021. Department also organized their FOOD TECH EXPO (BONGUSTIGA 4.0) on 18-MARCH-2022. Farm to Fork Food Processing Show (TEA, COFFEE, COCO) also conducted along with the food expo. Department also conducted Field Exposure Visit To Pre Incubation Unit IRTC Palakkad. Department also performed Food safety and hygiene orientation for food handlers at Mannarkkad.

The other activities of the department are as follows:

1. Conducted a webinar on entrepreneurship in food technology on 27-oct-2021
2. Conducted a webinar on gender equity for everyone's daily life practices on 09-03-2022
3. Conducted a webinar on managing management system in food technology on 9-03-2022
4. Conducted a webinar on research methodology on 11-03-22

### **Department of Psychology**

Eventhough the department of psychology is a new department they have maintained their documentation in a proper manner. Department has organized Webinar on suicide prevention

On September 10, 2021 and webinar on Game Addiction September 12, 2021. Department has arranged a Panel Discussion during Ruhig- 2021 (Mental health Day Observation) Department also conduct a field visit to MES Medical College and Faith India Institute to understand the practical issues involved in the field of Psychology. No detailed performance evaluation done by core committee

The other activities of the department are as follows

1. Department has observed
  - a. Yoga Day
  - b. Suicide Prevention Day
  - c. Mental Health Day
  - d. Happiness day

### **Department of Forensic Science**

Being a new Post graduate department, it has maintained their documentation in a proper way. Department has organized a crime scene workshop during the academic year 2021-22. A talk on Wildlife crime investigation was organised on 09-07-2021. A webinar on Forensic Toxicology was conducted by the department on 31-07-2021. Department has organised forensic week celebration from 19-09-21 to 28-07-2021, which include a series of national webinars and competitions. Department also conduct research methodology and IPR workshops. However, no detailed performance evaluation done by core committee

1. A lecture on forensic science in current scenario: investigation to court of law on 2nd march, 2022
2. An expert talk on cyber and digital forensics on 7-03-2022
3. A talk on entrepreneurship Mr. Ananthu Areekantakurupp, CEO and founder, Brand fell technologies, Technopark on 29-03-2022

### **Vocational Programme**

Being a new graduate department, it has maintained their documentation in a proper way. The Department offer three BVoc Programmes: Dairy Science and Technology, Data Science and Analytics, Tourism & Hospitality Management. These programmes started in 2021. So, performance evaluation was not done by core committee.

### Publications of Faculty Members

Sl No	Name of the teacher	Department	Title of the publication	Title of the Journal
1	Mohammed Musthafa T. N	Chemistry	Comparative Green and Conventional Synthesis of 2-Hydroxy-1-naphthaldehyde based Barbiturates and Their DFT study	Polycyclic Aromatic Compounds
2	Muhammed Rafi. P	Commerce	Entrepreneurial intention level of technical students towards Software start-ups in Kerala	ANVESAK
3	Sajna A	English	Resilience of the Traumatized in Nadia Murad's The Last Girl: My Story of Captivity and my Fight against Islamic State	Ishal Paithrikam
4	Sreenivasan K P	Chemistry	Core level X-ray photoelectron emission spectra and structure surface related multi-excitonic photoluminescence with reduced recombination rate in mesoporous TiO <sub>2</sub> /RuO <sub>2</sub> /CuO nanomaterials	Journal of Sol-Gel Science and Technology
5	Sreenivasan K P	Chemistry	Impact of sodium ion impregnation on the photocatalytic hydrogen evolution activities of anatase/rutile mixed phase TiO <sub>2</sub> nanomaterials	Indian Journal of Chemistry
6	Sreenivasan K P	Chemistry	Enhanced H <sub>2</sub> evolution via photocatalytic water splitting using mesoporous TiO <sub>2</sub> /RuO <sub>2</sub> /CuO ternary nanomaterial	Journal of Photochemistry and Photobiology



7	Sreenivasan K P	Chemistry	P123 Assisted Sol-Gel Combustion Synthesis of Mesoporous Strontium Titanate Nanomaterials for Photocatalytic Degradation of Methylene Blue	Indian Journal of Chemistry
8	Commerce	Commerce	Effect of social media advertising on consumer buying behaviour	NIU international journal oh human rights
9	Juliya A. P	Chemistry	P123 Assisted Sol-Gel Combustion Synthesis of Mesoporous Strontium Titanate Nanomaterials for Photocatalytic Degradation of Methylene Blue	Indian Journal of Chemistry
10	Juliya A. P	Chemistry	Core level X-ray photoelectron emission spectra and structure surface related multi-excitonic photoluminescence with reduced recombination rate in mesoporous TiO <sub>2</sub> /RuO <sub>2</sub> /CuO nanomaterials	Journal of Sol-Gel Science and Technology
11	Juliya. A. P	Chemistry	Enhanced H <sub>2</sub> evolution via photocatalytic water splitting using mesoporous TiO <sub>2</sub> /RuO <sub>2</sub> /CuO ternary nanomaterial	Journal of Photochemistry and Photobiology
12		Economics	Covid induced economic shock and its impact on the oncome of the people in India	Journal of rural Development
13	Azad P	Economics	What Promotes Happiness of Indians? Empirical Evidence from World Values Survey	Indian Journal of Economics

14	Azad P	Economics	Has Emigration Perked Up Entrepreneurship Among Return Migrants in Kerala? Findings from a Survey in a High Migration Density District	The Indian Journal of Labour Economics, Springer
15	Azad P	Economics	Effectiveness of public policy in reviving the COVID-19 hit economy: Evidences from Kerala, India	Journal of Public Affairs, Wiley
16	Azad P	Economics	Kerala's electoral victory 2021: Has the politics of behavioural nudging paid off?	Journal of Public Affairs, Wiley
17	Azad P	Economics	How do workers sustain Covid –induced labour market shock: Evidence from the Indian state of Kerala	Indian Economic Journal, Sage
18	Anu joseph	Economics	Rural Household Health Care Utilization and Its Determinants in Indian State Of Kerala: Cross Sectional Evidence	International Journal of Social Science and Economic Research

### Ph D Awarded

1. Reshmi K R (Department of Physics)
2. Muhammed Rafi P (Department of Commerce)