

**NALLAMUTHU GOUNDER MAHALINGAM
COLLEGE, POLLACHI**

(An Autonomous Institution under Bharathiar University,
Coimbatore)



**Registration Details
Free Registration**

Do online registration by AICTE portal only

<https://atalacademy.aicte-india.org/signup>

- Admission will be on First Come First Serve basis.
- 200 Seats only.
- Attendance is mandatory.
- Helpful to CAS for faculties

Eligibility

- The Faculty members of AICTE approved Institutions, PG & Research Scholars from Government, Industry can participate in this FDP

Certification

- The Certificates shall be issued by AICTE Training and Learning (ATAL) academy to those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test conducted at the end of the online FDP.

Organizing members

Ms. K. Vimaladevi
Ms.R. Mini
Dr. V. Prabhu
Ms. M. Anusuya

Assistant Professors,

PG Department of Chemistry

ORGANIZING COMMITTEE

Chief patron

**Dr. B. K. Krishnaraj Vanavarayar
President, NGM College**

Patron

**Sri. M. Balasubramaniam
Secretary, NGM College.**

Chairman

Dr. Antony Selvados Thanamani

Principal (i/c)

Advisors

**Dr. S. Saravana Babu
Dean Academics**

**Dr.S.Umapathy
Dean Research**

Chief Guest

**Dr. Ravindra Kumar Soni
Director
ATAL Academy**

**Dr. Girdhari Lal Garg
Assistant Director
ATAL Academy**

FDP COORDINATOR

**Dr. Mrs. K. POONKODI
Head & Assistant Professor
Post Graduate Department of Chemistry**

**NALLAMUTHU GOUNDER MAHALINGAM
COLLEGE, POLLACHI, COIMBATORE-Dist.**

**NALLAMUTHU GOUNDER MAHALINGAM
COLLEGE, POLLACHI**

(An Autonomous Institution under Bharathiar
University, Coimbatore)



**“Commemoration of the 65th formation
day”**

**Faculty Development Program
(On line)**

**Sponsored by AICTE -Training and
Learning (ATAL) Academy**

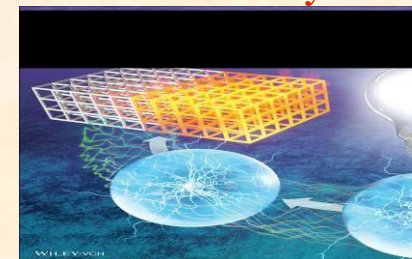
On

**“NOVEL MATERIALS FOR
NEXT GENERATIONS”**

26th to 30th July 2021

Organized by

**Post Graduate Department
of Chemistry**



In Association with

**AICTE Training and Learning
(ATAL) Academy**

IQAC/2021-22/JUL/020

About the College



The “Nallamuthu Gounder Mahalingam College Kalvi Kazhagam Trust” founded by Thiru. S.P. Nallamuthu Gounder and Dr. N. Mahalingam with 63 years of experience in education established in 1957, with a vision to become a center of excellence in Science, Arts, Management and Commerce through creative and innovative practices in teaching and learning. The institution promotes research and development to produce globally competitive and employable professionals. It is an autonomous institution re-accredited by NAAC and ISO 9001:2015 certified a wide array of excellent academic programs with a learning environment that fosters intellectual, social and personal development. The college has strong industry interaction and placement cell for placement, guest lecturers and projects.

ABOUT THE DEPARTMENT

The Postgraduate Department of Chemistry was established in the year 2015 with a vision to develop Quality Chemists to meet the current needs in the emerging world of Research, Education and Technology. The department endeavors to educate the students to acquire knowledge in current science, to enable them to communicate and use their skills constructively for the benefit of the society. The department has an excellent team of faculty promoting the students towards a proactive attitude to achieve team spirit, scientific, social and ethical values.

About the FDP

The Novel materials possess unique properties useful for a wide range of applications in fields as diverse as petrochemicals, energy storage, health, Pharmaceuticals, biotechnology, space, hydrometallurgy, environmental remediation and nuclear sciences. Such materials can provide novel research strategies and technologies that enable major contributions towards establishing sustainable processes required for the future of the process industry.

Course Outline

- ❖ **Nanomaterials**
- ❖ **Supramolecular materials**
- ❖ **Coordination Complexes**
- ❖ **Heterojunction Functional Materials**
- ❖ **Novel electrocatalyst materials**
- ❖ **Photofunctional Materials as solar cells**
- ❖ **Polymer embedded nanostructured materials**
- ❖ **Smart materials as chemoagent**
- ❖ **Sensor materials**
- ❖ **Smart materials for Energy and Environment - Challenges and Opportunities**
- ❖ **Conversion of Nano particles to wave file for sensor application.**
- ❖ **Need for Materials science**
- ❖ **Progress in Materials development**
- ❖ **Materials for Energy and Environment**
- ❖ **Polyoxometalate-Metal Oxide hybrid materials for Photocatalytic water-splitting**
- ❖ **Perovskite nanomaterials for emerging applications**

Expert Speakers

- ❖ **Prof. R. Ramaraj**
Professor of Eminence & DAE Raja Ramanna fellow,
Department of Chemistry
Madurai Kamaraj University, Madurai.
- ❖ **Dr. K. P. Elango**
Professor
Department of Chemistry
Gandhi Gram Rural Institute
GandhiGram, Dindigul, Tamil Nadu.
- ❖ **Dr. N. Ponpandian**
Professor & Head
Department of Nano Science & Technology
Bharathiar University, Coimbatore.
- ❖ **Dr. I. V. Muthu Vijayan Enoch**
Technology Head, Centre for NanoScience & Genomics
Karunya Insitute of Technology and Sciences
Coimbatore.
- ❖ **Dr. S. Jayabal**
Post-doctoral Researcher,
School of Mathematics & Physics
University of Science & Technology Beijing,
Beijing, China.
- ❖ **Dr. A. Pandikumar**
Scientist, Electro Organic & Materials
Electrochemistry Division
CSIR-Central Electrochemical Research Institute
Karaikudi, Tamil Nadu, India.
- ❖ **Dr. Manoj Raula**
Assistant Professor
Department of Chemistry
Amity Institute of Applied Sciences (AIAS)
Amity University, Noida, Uttar Pradesh, India
- ❖ **Dr. G. Sahaya Dennish Babu**
Assistant Professor
Industrialization Centre for Applied Nanoscience
Chettinad College of Engineering & Technology
Karur, Tamilnadu, India
- ❖ **Dr. S. Jagadambal**
Assistant Professor
Department of Yoga for Human Excellence
NGM College, Pollachi, Tamil Nadu.

FDP-SCHEDULE

DATE	9. 30am – 11.30pm	11.45pm- 1.30pm	2.30pm-4.00pm
JULY 26, 2021	<p style="text-align: center;">Inauguration and introduction to FDP</p> <p style="text-align: center;">“Small molecules as Anion sensors”</p> <p>Dr. K. P. Elango Professor Department of Chemistry Gandhi Gram Rural Institute, Gandhi gram, Dindigul, India</p>	<p style="text-align: center;">“Insight into the correlation of the metal – support interactions with electro catalytic activity and durability”</p> <p>Dr. S. Jayabal Postdoctoral Researcher, School of Mathematics & Physics University of Science & Technology Beijing, Beijing, China.</p>	<p style="text-align: center;">“Nanomaterials for clean energy and environmental applications”</p> <p>Prof. R. Ramaraj Professor of Eminence & DAE Raja Ramanna Fellow, School of Chemistry, Madurai Kamaraj University, Madurai-625 021, India.</p>
JULY 27, 2021	<p style="text-align: center;">“Magnetic nanocarriers”</p> <p>Dr. I. V. Muthu Vijayan Enoch Technology Head, Centre for Nano Science and Genomics, Karunya Institute of Technology and Sciences, Coimbatore, India.</p>	<p style="text-align: center;">“Coordination Complexes – as sensors”</p> <p>Dr. K. P. Elango Professor Department of Chemistry, Gandhi Gram Rural Institute, Gandhi gram, Dindigul, India.</p>	<p style="text-align: center;">“Perovskite nanomaterials for emerging applications”</p> <p>Dr. G. Sahaya Dennish Babu Assistant Professor Industrialization Centre for Applied Nanoscience Chettinad College of Engineering & Technology Karur, Tamil Nadu, India.</p>
JULY 28, 2021	<p style="text-align: center;">“Developing Novel electro catalyst materials by Understanding their structure- Performance relationships”</p> <p>Dr. S. Jayabal Postdoctoral Researcher, School of Mathematics & Physics, University of Science & Technology Beijing, Beijing, China.</p>	<p style="text-align: center;">“Heterojunction Functional Materials for Near-Future Hydrogen Production”.</p> <p>Dr. A. Pandikumar Scientist Functional Materials Division, CSIR-Central Electrochemical Research Institute, Karaikudi, Tamil Nadu, India.</p>	<p style="text-align: center;">“Novel materials for Energy Applications”</p> <p>Dr. N. Ponpandian Professor & Head Department of Nano Science & Technology Bharathiar University, Coimbatore, India.</p>
JULY 29, 2021	<p style="text-align: center;">“Photo functional Materials for Third Generation Solar Cells”</p> <p>Dr. A. Pandikumar Scientist Functional Materials Division CSIR- Central Electrochemical Research Institute Karaikudi, Tamil Nadu.</p>	<p style="text-align: center;">“Smart Materials in Chemotherapy”</p> <p>Dr. I. V. Muthu Vijayan Enoch Technology Head, Centre for NanoScience and Genomics Karunya Institute of Technology and Sciences, Coimbatore, India.</p>	<p style="text-align: center;">“Polymer embedded nanostructured materials for catalysis and sensor applications.”</p> <p>Prof. R. Ramaraj Professor of Eminence & DAE Raja Ramanna Fellow, School of Chemistry, Madurai Kamaraj University, Madurai, India.</p>
JULY 30, 2021	<p style="text-align: center;">“Novel Polyoxometalate-Metal Oxide hybrid materials for Photocatalytic water-splitting”</p> <p>Dr. Manoj Raula Assistant Professor Department of Chemistry Amity Institute of Applied Sciences (AIAS) Amity University, Noida, Uttar Pradesh, India.</p>	<p style="text-align: center;">“SKY Yoga for Stress Management”</p> <p>Dr. S. Jagadambal Assistant Professor Department of Yoga for Human Excellence, Nallamuthu Gounder Mahalingam College, Pollachi, Tamil Nadu, India.</p>	<p style="text-align: center;">Valedictory Address</p> <p>Dr. Biswarup Chakraborty Assistant Professor Department of Chemistry Indian Institute of Technology Delhi Hauz Khas, New Delhi.</p> <p style="text-align: center;">Assessment/ /Feedback</p>