

### Faculty profile



|                            |                                      |
|----------------------------|--------------------------------------|
| <b>Name</b>                | <b><i>Dr. M. I. Ahymah Joshy</i></b> |
| <b>Designation</b>         | <b><i>Assistant Professor</i></b>    |
| <b>Department</b>          | <b><i>Chemistry</i></b>              |
| <b>Date of Birth</b>       | <b><i>19.03.1982</i></b>             |
| <b>Date of Appointment</b> | <b><i>01.07.2025</i></b>             |

**Area of Specialization:** Biomaterials, Nanotechnology & Polymer composites for drug delivery and tissue engineering applications.

#### Professional Affiliation

| S. No | Year      | Professional Affiliation                                          |
|-------|-----------|-------------------------------------------------------------------|
| 1     | 2025-2026 | Environmental study Committee Member                              |
| 2     | 2025-2026 | Eco club waste water Management and Green Campus Committee Member |
| 3     | 2025-2026 | Unnat Bharat Abhiyan Committee Member                             |
| 4     | 2026-2027 | IPR Cell Member                                                   |
| 5     | 2026-2027 | Research Committee Member                                         |
| 6     | 2026-2027 | IQAC Member                                                       |

**Total Experience: 1 Year**

#### Academic Records

| COURSE | INSTITUTION                                                              | YEAR OF PASSING | SUBJECT TAKEN | MARKS          |
|--------|--------------------------------------------------------------------------|-----------------|---------------|----------------|
| Ph.D.  | Anna University,<br>Chennai – 600 025                                    | 2011            | Chemistry     | Degree awarded |
| M.Sc.  | St. Joseph's College,<br>Tiruchirappalli,<br>Bharathidasan<br>University | 2005            | Chemistry     | 64.54          |

|       |                                                                           |      |                                                               |       |
|-------|---------------------------------------------------------------------------|------|---------------------------------------------------------------|-------|
| B.Sc. | Holy Cross College,<br>Nagercoil,<br>Manonmaniam<br>Sundaranar University | 2003 | Chemistry                                                     | 69.50 |
| XII   | Board of Higher<br>Secondary<br>Examination, Tamil<br>Nadu                | 2000 | Physics,<br>Chemistry,<br>Botany, Zoology,<br>Tamil, English  | 80.58 |
| X     | Board of Secondary<br>Education, Tamil<br>Nadu                            | 1998 | Science,<br>Mathematics,<br>Social science,<br>Tamil, English | 85.40 |

### **Title of Ph.D thesis:**

**“Synthesis of nano hydroxyapatite and its polymer composites for drug delivery and tissue engineering applications”**

### **Academic Award:**

- ❖ National Doctoral Fellowship (NDF) by All India Council for Technical Education (AICTE), India from 2007-2009.
- ❖ Nature India have highlighted one of my work as ‘Research Highlight’ under the title “Nanorods to kill bugs, cancer” and it was published online on 23 June 2011, doi:10.1038/nindia.2011.88.
- ❖ Best poster presentation award (second) during XXI National conference of the society, January 6-8, 2012.
- ❖ Best paper award (oral) in the International conference on Biomaterials Implant Devices and Tissue Engineering, January 6-8, 2012.

### **Membership**

- **Life member of the Society for Bio-Materials and Artificial Organs-LM539**

## Conference / workshop:

| Category        | Conference    |          | Workshops     |          |
|-----------------|---------------|----------|---------------|----------|
| Paper presented | International | National | International | National |
|                 | 08            | 02       | -             | -        |
| Participated    | 06            | 04       | 04            | 10       |

## Publications in National/International Journals

### First Author Papers

1. **Ahymah Joshy, M. I.**, Elayaraja, K., Suganthi, R.V. and Narayana Kalkura, S. "Mineralization of oriented nano hydroxyapatite in photopolymerized polyacrylamide gel matrix", Cryst. Res. Technol., Vol. 45, No. 5, pp. 551-556, 2010. I.F=1.9
2. **Ahymah Joshy, M. I.**, Elayaraja, K., Suganthi, R.V., Sarath Chandra Veerla and Narayana Kalkura, S. "In vitro sustained release of amoxicillin from lanthanum hydroxyapatite nanorods" Curr. Appl. Phys., Vol.11, pp. 1100-1106, 2011. I.F=3.1
3. **Ahymah Joshy, M. I.**, Elayaraja, K., Shakthivel, Shanthini, Sarath Chandra, V and Narayana Kalkura, S. "Freeze dried cross linking free biodegradable composites with microstructures for tissue engineering and drug delivery application", Mater. Sci. Eng. C, Vol. 33, pp. 466-474, 2013. I.F=7.9
4. **Ahymah Joshy, M. I.**, Vani, R., Tamil selvan, A., Suganthi, R. V., Sankaran, K and Narayana Kalkura, S. "Synthesis of Lanthanum ( $\text{La}^{3+}$ ) doped Hydroxyapatite", Archives of Bio Ceramics Research Volume 8, Proceeding of the Asian Bioceramics 2008, Chennai, India, 4-6 Nov. (2008).
5. **Ahymah Joshy, M. I.**, Elayaraja, K., Suresh Kumar, V., Abinaya Sindhu, P., Asokan, K., Narayana Kalkura, S. "Investigations on the effect of swift heavy

silicon ion irradiation on hydroxyapatite”, Materials Today-Proceedings, Vol 58., pp 802-811., 2022. I.F=1.503

### Co-Author Papers

6. Elayaraja, K., **Ahymah Joshy, M. I.**, Suganthi, R.V., Narayana Kalkura, S., Palanichamy, M., Ashok, M., Sivakumar, V.V., Kulriya, P.K., Sulania, I., Kanjilal, D. and Asokan, K. “ $^{125}\text{MeV Si}^{9+}$  ion irradiation of calcium phosphate thin film coated by rf-magnetron sputtering technique”, Appl. Surf. Sci., Vol. 257, pp. 2134–2141, 2011. I.F=6.9
7. Suganthi, R.V., Elayaraja, K., **Ahymah Joshy, M. I.**, Sarath Chandra, V., Girija, E. K., and Narayana Kalkura, S. “Fibrous growth of strontium substituted hydroxyapatite and its drug release” Mater. Sci. Eng. C, Vol. 31, pp. 593-599, 2011. I.F=7.9
8. Girija, E. K., Parthiban, S. P., Suganthi, R. V., Elayaraja, K., **Joshy, M. I. A.**, Vani, R., Kularia, P., Asokan, K., Kanjilal, D., Yokogawa, Y. and Narayana Kalkura, S. “High energy irradiation a tool for enhancing bioactivity of hydroxyapatite”, JCS-Japan, Vol. 116, No. 2, pp.320-324, 2008. I.F=3.7
9. Sarath Chandra, V., Ganga Baskar., Suganthi, R. V., Elayaraja, K., **Ahymah Joshy, M. I.**, Sofi Beaula, W., Mythili, R., Ganesh Venkatraman., and Narayana Kalkura, S. “Blood compatibility of iron-doped nanosize hydroxyapatite and its drug release”, Appl. Mater. Inter., Vol. 4, pp. 1200-1210, 2012. I.F=8.2
10. Elayaraja, K., Rajesh, P., **Ahymah Joshy, M. I.**, Sarath Chandra, V., Suganthi, R.V., Kennedy, J., Asokan, K., Avasthi, D. K., Kanjilal, D., Varma, H. K., Narayana Kalkura, S. “Enhancement of wettability and antibiotic loading/release on surface modified by 100 MeV  $\text{Ag}^{7+}$  ion irradiation on hydroxyapatite thin film”, Mater. Chem. Phy., Vol. 134, pp. 464-474, 2012. I.F=4.7

11. Sarath Chandra V, Elayaraja K, Suganthi R.V, **Ahymah Joshy, M.I**, Sulania I, Kulriya P.K, Asokan K, Kanjilal D, Narayana Kalkura S, 'Effect of irradiation of Si <sup>5+</sup> ion on Fe doped hydroxyapatite, Adv. Mat. Lett., Vol. 4(3), 2013. I.F=0.5
12. Elayaraja, K., Sarath Chandra, V., **Ahymah Joshy, M. I.**, Suganthi, R.V., Asokan, K., Avasthi, D. K., and Narayana Kalkura, S. "Nanocrystalline biphasic resorbable calcium phosphate (HAp/ $\beta$ -TCP) thin film prepared by electron beam evaporation technique", Appl. Surf. Sci., Vol. 274, pp. 203-209, 2013. I.F=6.9
13. Elayaraja K, Suganthi R.V, **Ahymah Joshy M.I**, Thanigaiarul K, Sarath Chandra V and Narayana Kalkura S "Raman and Photoluminescence analysis of Irradiated Calcium Phosphate based Bio- Ceramics, Bulletin of Indian Laser Association, Vol. 23, No.1, April 2012.
14. Vani, R., **Ahymah Joshy, M. I.**, Suganthi, R. V and Narayana Kalkura, S, "Habit modification of nano hydroxyapatite using ethylene glycol", Archives of Bio Ceramics Research Volume 8, Proceeding of the Asian Bioceramics 2008, Chennai, India, 4-6 Nov. (2008)
15. Elayaraja, K., **Ahymah Joshy, M. I.**, Thanigai Arul, K., Manoj Kumar, P., Ramesh Babu, N., Ashok, M., Sivakumar, G. R., Asokan, K., Narayana Kalkura, S. "Effect of swift heavy silicon ion irradiation on TiO<sub>2</sub> prepared by micro arc oxidized technique", Materials Today- Proceedings, Vol. 58, pp. 932-941, 2022. I.F=1.503

## Patent

1. Indian Patent on Title "A Hierarchical Ternary Electrocatalyst comprising Zinc Indium Sulfide, Nickel Cobalt Oxide and Mxene (Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub>) and a process for the preparation Thereof for electrochemical water splitting Applications". Name of Inventor : 1) Dr. Thirumala Rao Gurugubelli 2) Dr. Sarath Chandra Veerla 3) **Dr. M. I. Ahymah Joshy**. Application No.202641054141 A, Publication Date : 15/05/2026

## Books Published

1. Text Book of Pharmaceutical Organic Chemistry-III, (According to latest syllabus of B Pharm-IV Semester of Pharmacy Council of India), Authors : Dr. Raka Kalpesh Chandrakant, Dr. Surwase Kumar Pralhadrao, Dr. R. Betsy Clarebel, Mr. Ashok A. Chopane, **Dr. M. I. Ahymah Joshy**, ISBN Number : 978-93-7462-536-1, Shashwat Publication.

## Papers Presented/Accepted in International conferences

1. **Ahymah Joshy, M. I.**, Vani, R., Prakash Parthiban, S., Suganthi, R. V., Girija, E. K., Tamil Selvan, A., Sankaran, K and Narayana Kalkura, S. "Protein binding to synthesized hydroxyapatite", International conference on New Horizons in Biotechnology, National Institute for interdisciplinary science and technology (CSIR) and biotech research society (BRSI), Trivandrum on 26<sup>th</sup> to 29<sup>th</sup> November, 2007.
2. **Ahymah Joshy, M. I.**, Vani, R., Tamil Selvan, A., Suganthi, R. V., Sankaran, K and Narayana Kalkura, S. "Synthesis of Lanthanum (La<sup>3+</sup>) doped hydroxyapatite", International conference on Eight Asian Bioceramics Symposium (ABC 2008) organized by Dept. of Metal. & Mater. Engg., Indian Institute of Technology, Madras, Chennai on 4<sup>th</sup> to 6<sup>th</sup> November, 2008.
3. **Ahymah Joshy, M. I.**, Elayaraja, K and Narayana Kalkura, S. "In Vitro drug release of amoxicillin from lanthanum doped hydroxyapatite", International conference on nanomaterials and nanotechnology organized by Centre for Nano Science and Technology, K. S. Rangasamy College of Technology, India on 13<sup>th</sup> to 16<sup>th</sup> December, 2010.
4. **Ahymah Joshy, M. I.**, Elayaraja, K., Sarath Chandra, V and Narayana Kalkura, S. "Degradable (Gelatin and Agarose) hydroxyapatite scaffolds prepared by freeze-dryer for drug release and tissue engineering application, 4<sup>th</sup> Indo-Australian conference on Biomaterials, Tissue Engineering and Drug Delivery Systems organized by Sardar Patel University, Vallabh Vidyanagar, Gujarat, India on 10<sup>th</sup> to 12<sup>th</sup> February, 2011.
5. Vani, R., **Ahymah Joshy, M. I.**, Suganthi, R. V and Narayana Kalkura, S. "Habit modification of nano hydroxyapatite using ethylene glycol", International conference on Eighth Asian Bioceramics Symposium organized by Dept. of Metal. & Mater. Engg. IIT, Madras, Chennai on 4<sup>th</sup> to 6<sup>th</sup> November, 2008.

6. Elayaraja, K., **Ahymah Joshy, M. I.**, Suganthi, R. V., Vani, R., Sarath Chandra, V., Ganesan, K., Epple, M and Narayana Kalkura, S. "Investigation of antibiotic and anti-cancer drug release from nano-hydroxyapatite agarose/composite" 4<sup>th</sup> Indo-Australian conference on Biomaterials, Tissue Engineering and Drug Delivery Systems organized by Sardar Patel University, Vallabh Vidyanagar, Gujarat, India on 10<sup>th</sup> to 12<sup>th</sup> February, 2011.
7. Suganthi, R. V., Elayaraja, K., **Ahymah Joshy, M. I.**, Sarath Chandra, V., Girija, E. K and Narayana Kalkura, S. " Fibrous growth of strontium substituted hydroxyapatite and its drug release", 4<sup>th</sup> Indo-Australian conference on Biomaterials, Tissue Engineering and Drug Delivery Systems organized by Sardar Patel University, Vallabh Vidyanagar, Gujarat, India on 10<sup>th</sup> to 12<sup>th</sup> February, 2011.
8. Elayaraja, K., Sivaraj, V. D. C., Sarath Chandra, V., Suganthi, R. V., **Ahymah Joshy, M. I.**, Gokuladhas, K and Narayana Kalkura, S. "Freeze dried hydroxyapatite/agarose scaffold for tissue engineering and drug delivery applications", International conference on nanomaterials and nanotechnology organized by Centre for Nano Science and Technology, K. S. Rangasamy College of Technology, India on 13<sup>th</sup> to 16<sup>th</sup> December, 2010.
9. Sarath Chandra, V., Baskar, G., Suganthi, R. V., Elayaraja, K., **Ahymah Joshy, M. I.**, Sofi Beaula, W., Mythili, R., Ganesh, V and Narayana Kalkura, S. "Study of blood compatibility and drug release on iron doped hydroxyapatite", 4<sup>th</sup> Indo-Australian conference on Biomaterials, Tissue Engineering and Drug Delivery Systems organized by Sardar Patel University, Vallabh Vidyanagar, Gujarat, India on 10<sup>th</sup> to 12<sup>th</sup> February, 2011.
10. **Ahymah Joshy, M. I.**, Elayaraja, K., Sarath Chandra, V and Narayana Kalkura, S. " Influence of metal ions on the mineralization of hydroxyapatite at physiological pH on polyacrylamide gel matrix", International conference on biomaterials implant devices and tissue engineering organized by Society for Biomaterials and Artificial Organs (India), Society for Tissue Engineering and regenerative medicine held at Rajalakshmi Engineering College, Chennai during January 6-8, 2012. (**Best poster award, second** )
11. Sarath Chandra, V., Elayaraja, K., **Ahymah Joshy, M. I.**, Thanigaiarul, K and Narayana Kalkura, S. " Investigations on cobalt doped hydroxyapatite for hyperthermia treatment", International conference on biomaterials implant devices and tissue engineering organized by Society for Biomaterials and Artificial Organs (India), Society for Tissue Engineering and regenerative

medicine held at Rajalakshmi Engineering College, Chennai during January 6-8, 2012. **(Best paper award, Oral)**

12. Elayaraja, K., Rajesh, P., **Ahymah Joshy, M. I.**, Sarath Chandra, V., Suganthi, R. V., Kulriya, P. K., Sulania, I., Asokan, K., Kanjilal, D., Avasthi, D. K., Kennedy, J., Varma, H. K., and Narayana Kalkura, S. "Enhancement of wettability and antibiotic loading/release of hydroxyapatite thin film modified by 100 MeV  $\text{Ag}^{7+}$  ion irradiation", International conference on biomaterials implant devices and tissue engineering organized by Society for Biomaterials and Artificial Organs (India), Society for Tissue Engineering and regenerative medicine held at Rajalakshmi Engineering College, Chennai during 6-8, 2012.
13. **Ahymah Joshy, M. I.**, Elayaraja, K., Sarath Chandra, V., Suganthi, R. V., Kanjilal, D., Asokan, K and Narayana Kalkura, S. " Investigation on in vitro drug release of surface modified hydroxyapatite polymer composite", International conference on advanced materials held at Loyola College, Chennai, India during January 5-7, 2012.
14. Elayaraja, K., Sarath Chandra, V., **Ahymah Joshy, M. I.**, Suganthi, R. V., Asokan, K and Narayana Kalkura, S. "Nanocrystalline biphasic resorbable calcium phosphate (HAp/-TCP) thin film prepared by electron beam evaporation technique", International conference on advanced materials held at Loyola College, Chennai, India during January 5-7, 2012.
15. **Ahymah Joshy, M. I.**, Elayaraja, K., Suresh Kumar, V., Abinaya Sindhu, P., Asokan, K., and Narayana Kalkura, S. "Investigations on the physical properties, in vitro bioactivity and drug release of 60 MeV  $\text{Si}^{5+}$  ion irradiated hydroxyapatite", International conference on novel engineering materials for biomedical, energy, environment, sensing and other applications -2021 (ICON-BEES'21) held at National Institute of Technology, Tiruchirappalli-15 during March 11-13, 2021.
16. Stegi, I. S., **Ahymah Joshy, M. I.** "Dye based bromo substituted ligand and it's ruthenium (II) polypyridyl complexes: synthesis, antimicrobial activities, cyclic voltammetry study and fabrication of DSSC', International conference on chemistry innovation: current developments, challenges and future perspectives (ICCI- 2025) held at St. Joseph's College (Autonomous) and Bishop Heber College (Autonomous), Tiruchirappalli during 15<sup>th</sup> and 16<sup>th</sup> September 2025.

#### **Papers Presented/Accepted in National conferences**

1. **Ahymah Joshy, M. I.**, Vani, R., Elayaraja, K., Suganthi, R. V and Narayana Kalkura, S. "Mineralization of Calcium phosphate in polymer matrix", National conference on 38<sup>th</sup> National seminar on crystallography organized by DOS in geology, University of Mysore, Mysore on 11<sup>th</sup> to 13<sup>th</sup> February, 2009.
2. Vani, R., **Ahymah Joshy, M. I** and Narayana Kalkura, S. "Synthesis of interconnected porous calcium phosphate at low temperature", National conference on Medical Materials organized by IIT, Madras, Chennai on 13<sup>th</sup> and 14<sup>th</sup> December, 2007.
3. Sarath Chandra, V., Elayaraja, K., Suganthi, R. V., **Ahymah Joshy, M. I.**, Sulania, I., Kulriya, P. K., Asokan, K., Kanjilal, D and Narayana Kalkura, S. "Surface modification of Fe doped hydroxyapatite on 60 MeV Si<sup>5+</sup> irradiation", Conference on Nanostructuring by Ion Beams organized by Nanotechnology Application Centre (NAC), University of Allahabad, Allahabad 211002, India and Inter Univeristy Accelerator Centre (IUAC), New Delhi, India held at Nanotechnology Application Centre, University of Allahabad, India during October 17<sup>th</sup> to 19<sup>th</sup> 2011.
4. Suganthi, R. V., Elayaraja, K., Sarath Chandra, V., **Ahymah Joshy, M. I.**, Kulriya, P. K., Asokan, K., Kanjilal, D and Narayana Kalkura, S. "Effect of Swift heavy (Si<sup>5+</sup> and Ag<sup>7+</sup>) ion irradiation on hydroxyapatite and their biological performance", Conference on Nanostructuring by Ion Beams organized by Nanotechnology Application Centre (NAC), University of Allahabad, Allahabad 211002, India and Inter Univeristy Accelerator Centre (IUAC), New Delhi, India held at Nanotechnology Application Centre, University of Allahabad, India during October 17<sup>th</sup> to 19<sup>th</sup> 2011.
5. Elayaraja, K., Rajesh, P., **Ahymah Joshy, M. I.**, Sarath Chandra, V., Suganthi, R. V., Kulriya, P. K., Sulania, I., Asokan, K., Kanjilal, D., Avasthi, D. K., Kennedy, J., Varma, H. K., and Narayana Kalkura, S. "Effect of Swift heavy (Si<sup>5+</sup> and Ag<sup>7+</sup>) ion irradiation on hydroxyapatite and their biological performance", Conference on Nanostructuring by Ion Beams organized by Nanotechnology Application Centre (NAC), University of Allahabad, Allahabad 211002, India and Inter Univeristy Accelerator Centre (IUAC), New Delhi, India held at Nanotechnology Application Centre, University of Allahabad, India during 17<sup>th</sup> to 19<sup>th</sup> October, 2011.
6. Elayaraja, K., **Ahymah Joshy, M. I.**, Suganthi, R. V., Thanigaiarul, K., Sarath Chandra, V and Narayana Kalkura, S. "Raman and photoluminescence analysis of irradiated calcium phosphate based bioceramics", National

Laser Symposium (NLS-20) held at Crystal Growth Centre, Anna University, Chennai during 9<sup>th</sup> to 12<sup>th</sup> January, 2012.

7. **Ahymah Joshy, M. I.**, Stegi, I. S., Elayaraja, K., Asokan, K., Narayana Kalkura, S. "Studies on the effect of 60 MeV Si<sup>5+</sup> ion irradiation on hydroxyapatite polymer composite prepared by UV photopolymerization and it's in vitro drug release" National seminar on Recent Trends in Chemistry (RTC-11) held at PG and Research Center of Chemistry, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam on 28<sup>th</sup> January 2026.

### **Seminars/Conferences/Workshops/FDP Participated 2025-2026**

1. One day International Webinar on "Recent Trends in Chemistry (RTC-I-7)" organized by PG and Research center of Chemistry, Jayaraj Annapackiam College for Women (Autonomous), periyakulam on 13<sup>th</sup> August 2025.
2. Five day International Online FDP on "AI-Driven Innovations for Chemistry Education and Research" organized by PG and Research Department of Chemistry, School of Physical Sciences, Holy Cross College (Autonomous), Tiruchirappalli during 4<sup>th</sup> to 8<sup>th</sup> August 2025.
3. Five days National Level Faculty Development Programme on "A oadmap to Ethical Governance and Excellence in Higher Education Institutions" organized by PG and Research Department of Mathematics and Department of Computer Applications, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni (D.t) in collaboration with ACT Academy, Tamil Nadu Unit during 8<sup>th</sup> to 12<sup>th</sup> October 2025.
4. One day National Level Research e-Workshop on "Tools and Techniques used in Research Reports and Scientific Writing Challenges & Emerging Guidance" organized by A.C.T. Academy, Palakkad, Kerala & Tamil Nadu on 28<sup>th</sup> February 2026.
5. Workshop on "Project Proposal Development for Strengthening Rural Livelihoods in UBA Networks Villages" organized by UBA-SEG on Rural Livelihoods The Gandhigram Rural Institute (DTBU), Gandhigram, Dindigul, Tamil Nadu during 2<sup>nd</sup> and 3<sup>rd</sup> March 2026.
6. One day National Level Research e-Workshop on "How to write Quality Research Papers for Impact Factored Journals" organized by A. C. T Academy, Palakkad, Kerala and Tamil Nadu on 24<sup>th</sup> March 2026.
7. One week National Level Faculty Development Programme (Online) on "Advanced Materials for Engineering Applications" organized by Department of Humanities and Sciences, Sri Venkateswara College of Engineering & Technology (Autonomous), Chittoor, Andra Pradesh, in

collaboration with a. C. T Academy, Palakkad, Kerala during 20<sup>th</sup> to 25<sup>th</sup> April 2026.

### Courses Completed

1. NPTEL Online Certification 8 week course (July- September 2025), SWAYAM-NPTEL in “Applications of Spectroscopic Methods in Molecular Structure Determination”.
2. “Online NEP 2020 Orientation and Sensitization Programme (MMTTP)” of UGC organized by The Gandhigram Rural Institute-DTBU, Gandhigram from 5<sup>th</sup> to 13<sup>th</sup> January 2026.
3. One month FIP (online) with **Grade A<sup>+</sup>** under MMTTP of UGC held from 27<sup>th</sup> April to 25<sup>th</sup> May 2026, organized by Malaviya Mission Teacher Training Centre of Shri Mata Vaishno Devi University, Katra, J&K.

### Organized

1. Served as an Organizing Secretary, National Seminar on “Recent trends in Chemistry (RTC-11)” Organized by PG and Research Center of Chemistry, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni on 28<sup>th</sup> January 2026.

### Published Abstract with ISBN Number

1. National seminar on Recent Trends in Chemistry RTC-11 with **ISBN Number 9789393333742**. Title **“STUDIES ON THE EFFECT OF 60 MeV Si<sup>5+</sup> ION IRRADIATION ON HYDROXYAPATITE POLYMER COMPOSITE PREPARED BY UV PHOTOPOLYMERIZATION AND IT'S IN VITRO DRUG RELEASE”** M.I. Ahymah Joshy, Elayaraja Kolanthaia, I. S. Stegi, K. Asokan, S. Narayana Kalkura, organized by PG and Research Center of Chemistry, Jayaraj Annapackiam College for Women (Autonomous), Periyakulam, Theni District, Tamilnadu.

### Project

| S. No | Funded by                       | Project No                       | Title                           | Date, Month and Year | Outlay (Rs) |
|-------|---------------------------------|----------------------------------|---------------------------------|----------------------|-------------|
| 1     | Jayaraj Annapackiam College for | JAC/2026-2027/JACFRP-Students/13 | Green Synthesis of Nano HAp Co- | 27-08-2026           | 10000       |

|  |                                                 |  |                                                                                                             |  |  |
|--|-------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------|--|--|
|  | Women<br>(Autonomous),<br>Periyakulam,<br>Theni |  | doped An and<br>Glycine with<br>Azadirachia<br>Indica (Neem)<br>leaf extract for<br>Medical<br>Applications |  |  |
|--|-------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------|--|--|

### **e-Content**

1. **“Spectroscopy”**

<https://youtu.be/me7yCQh0PS4?si=CJIIBDemLGPfacsJ>

2. **“Thermo Analytical Methods (TGA/DTA)”**

<https://youtu.be/m8NSg4TuW5A>

### **Research Guidance**

1. No of PG Project Guided: 1

2. No of UG Project Guided: 1

### **Computer Proficiency:**

Operating System : Windows, MS-DOS, Linux.

Applications : MS-Office.

### **Contact Details**

Present Address : Mahatma Gandhi Road  
College Vilaku  
Tamaraikulam  
Periyakulam, Theni District,  
PIN: 625601

Permanent Address: Door No 29, 9<sup>th</sup> Ward  
Ambedkar Nagar, Mallur (P.O)  
Salem District - 636203

Mobile : 9489208412

e-mail : achymahjoshychem@annejac.ac.in

