

DR. M.AMUTHA

Name : Dr.M.AMUTHA
Designation : Assistant Professor
Date of Birth : 26.12.1972
Address : No: 3, Sri Ganapathy Nagar Mahalingapuram, Pollachi.642002.
Email : amutha@mail.com , amuthanallasamy123@gmail.com
Contact number : 9443203591

Educational Qualification

Course	Major subjects	College/University/Institution	Year of Passing
B.Sc.	Chemistry	APAC(W), Palani	1993
M.Sc.	Chemistry	APA College, Palani	1995
B.Ed.	Physical Science	Madurai Kamaraj University, Madurai	1996
M.Phil	Chemistry	Bharathidasan University, Trichy	2006
Ph.D	Chemistry	Avinashilingam University, Coimbatore.	2017

Teaching Experience : 17 Years
Research Experience : 8 Years
Area of Specialization : Phytochemistry and Nano chemistry
Area of Interest : Organic chemistry and Green Chemistry

Awards and Recognitions

- ❖ Received “**LIFE SAVING AWARD**” towards contribution to the community in saving lives from 108 ambulance service, Government of Tamilnadu on 04.05.2010.
- ❖ Received appreciation for organizing a Voluntary blood donation camp at APA college for women, Palani on 20.03.2010.
- ❖ Received appreciation from President, Korikkadavu, for conducting special NSS camp and creating awareness regarding Health& Hygiene, conducting special eye camp (Meenakshi Mission eye Hospital , Madurai) at Korikkadavu, Kovil Ammapatti and Nachiappagoundan Valasu

- ❖ Awarded as **Second best Consumer Forum** in Dindigul district to APA college for women during 2011, when I was consumer club coordinator.

Minor Research Project

Completed UGC –Minor Research Project UGC-XI plan (F MRP- 4016 SERO –UGC)) Amount of Rs 1,30,000 Entitled “ISOLATION OF MEDICINALLY SIGNIFICANT COMPOUNDS FROM THE MEDICINAL PLANT OF CUCURBITACEAE FAMILY”

Academic Activities

Seminars / Workshops Organised

- Organised One Day State Level Workshop on “Nano Science and Nano Materials” on 20.10.2010 at APAC(W), Palani.

Special lectures Organised

- Organised special lecture on “**Women Health care**” delivered by Mrs.N.Rajeswari, Block Medical Officer, Govt. Primary Health Centre Pappampatti and “**How to succeed in competitive examinations**” delivered by Taluk revenue officer, Palani taluk on 08.03.2014.
- Organised special lecture on “**Women Empowerment and Self reliance**” Delivered by Dr(Mrs.) Meenakumari, Associate Professor, Department of English, Arulmigu Palaniandavar Arts College for Women, Palani on 08.03.2015.
- Organised Special lecture on “**Importance of Women Education and Gender issues**” delivered by Dr. D. Senthamarai Selvi, M.B.B.S., D.G.O., M.D.,(U.S.), D.G.E.S (Germany). Palani Balaji Fertility Centre, Anna Nagar, Palani, Palani, on 07.03.2016

Industrial Visits Organised

- Organised industrial visit to Bannariamman Sugars Ltd, Appakudal, Sathyamangalam for I, II and III-year B.Sc., Chemistry students on 6.04.2010.
- Organised Industrial visit to Amaravathi Co-operative Sugar Mills P.Ltd., Madathukkulam for II and III year Chemistry Students on 07.03.2013.
- Organised Industrial visit to Sakthi Dairy and Sakthi Soyas Limited for I I, II and III-year B.Sc., Chemistry students on 11.09.2015.

Course Writer

- Prepared manuals for the following Syllabus / topics
 - ✓ Dairy Chemistry
 - ✓ Polymer chemistry
 - ✓ Modern Cosmetics

- ✓ Ancillary Chemistry for Physics, Zoology and Botany Students
- ✓ Green Chemistry
- ✓ Nanochemistry
- ✓ Health chemistry
- ✓ Recent Analytical techniques

Extension Activity

- Participated in the extension activity programmed by the department during 2010 in the adopted village, Narikkuravar Colony, Pethanaickanpatti, Palani.
 - Issuing Dustbins,
 - Arranging awareness programmes regarding “ Health and Hygiene” to the community.
 - Awareness regarding Women education
 - Awareness programmes regarding 108 ambulance service.
- Participated in the extension activity programmed by the department during 2017 in the paraipatti village
 - Issuing Dustbins and importance of segregation of Decomposable and non-decomposable wastes.
 - Arranging awareness programmes regarding “ Health and Hygiene” to the community.
 - Throwing seed balls prepared by the students –Reforestation.
- Participated in the extension activity programmed by the department during 2017 at The Elementary school, Thalayam. .
 - By issuing Thirukkural books to each student and issuing story books to the school library,
 - Issuing Mike-set to the school.
- Participated in the extension activity programmed by the department during 2017 at High School, Thalayam.
 - By conducting programmes regarding First aid after Snake bite and Fire Safety
 - Lab safety measures.
 - Learning chemistry through simple experiments.

Positions Held

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|---|---|
| ❖ Served as NSS officer | 02.02. 2009 - 30.05.2010 (2009-2010) |
| ❖ NCC caretaker | 31.05.2010 - 30.12.2010 (2010-2011). |
| ❖ Served as Consumer Club Co-Ordinator | 2011-2012 |
| ❖ Served as NSS advisory committee member | 2011-2012 |
| ❖ IQAC Report consolidation committee | 2012-2013 |
| ❖ Women cell Co-ordinator | 2013 – 2016 (2013-2014;
2014-2015 & 2015-2016) |
| ❖ Youth welfare Association staff-incharge | 2015-2017 (2016-2017
& 2017-2018) |
| ❖ Dairy of Events and Annual report In charge | 2017-2018 |
| ❖ NAAC Criteria Development Committee | NAAC-2017 |

Seminar, Workshop, Conferences attended/Papers Presented

- ✓ **Attended** International congress of “Global warming on Biodiversity of Insects: Management and conservation – (GW-BIMC’09)” organized by Department of Zoology, School of Life sciences, Bharathiar University, Coimbatore from 09.02.2009 to 12.02.2009.
- ✓ **M.Amutha.,** Society as a catalyst for Quality Improvement, presented a paper at NAAC sponsored National Level seminar on “The Role of Stakeholders for Quality sustenance in Higher Education” on 16.03.2009 and 17.03.2009, at APAC(W), Palani.
- ✓ **M.Amutha.,** Graph colouring, presented a paper at State Level seminar on “Graph Theory and its Applications”, Organised by The Department of Mathematics, on 31st march, 2009, at APAC(W), Palani.
- ✓ **Attended** one day state level workshop on “Techniques on Chromatography and Mass Spectrometry”, Organised by The Dept. of Chemistry, on 15.04.2009. APAC(W), Palani.
- ✓ **Attended** UGC sponsored National seminar on “Recent Developments in Green Chemistry (NSGC-2009)” Organised by PG and Research Department of Chemistry, Sri Ramakrishna Mission Vidyalala College of Arts and Science, Coimbatore, on 22.07.2009 and 23.07.2009.
- ✓ **M.Amutha.,** Integrated urban water management, presented a paper at State level Symposium on “Water Resources and Management” at Karpagam University, Coimbatore on 07.10.2009 to 09.10.2009.

- ✓ **M.Amutha.,** Disposal of nuclear wastes and toxic metals by bioremediation using genetically engineered microbes, presented a paper in UGC Sponsored National Level seminar on “Green Technology- Green Tech- 09” Organised by The Department of Chemistry, NGM College, Pollachi on 18.02.2010 to 19.02.2010.
- ✓ **Attended** Workshop on Path finder-Explore, Experiment, Elucidate Research : A Colloquium -2010, at Avinashilingam University, Coimbatore on 22.12.2010 to 23.12.2010.
- ✓ **M.Amutha.,** Career in fashion designing presented a paper in the national level seminar on “Operations Research and Its Applications” organized by The Department of Mathematics, APA College for Women, Palani on 10. 01.2011.
- ✓ **Attended** One Day National Level Workshop on “Recent Trends in Emerging Chemistry (RTEC-2011)” Organised by The Department of Chemistry with Industrial Applications, GVG Visalakshi College for Women, Udumalpet on 29.01.2011.
- ✓ **M.Amutha.,** Zero waste approach a paper presented in The International conference on “Global Competitiveness in Biology, Chemistry and Environment: For Better Tomorrow (PROTEOFEST -2011)” Organised by The Department of Biochemistry, Rev.Jacob Memorial Christian College, Ambilikkai on 03.02.2011.
- ✓ **Attended** Research Convention on “Research Ethics and Post research Perspectives” Organised by The Department of Chemistry, Avinashilingam Deemed University, Coimbatore on 10.08.2011 and 11.08.2011.
- ✓ **M.Amutha.,** Ultrasonic assisted cavitation techniques presented a paper in The International seminar on “Emerging Trends in Life Science (AURORA-2KXI)” organized by the department of Biochemistry, Physics & Chemistry, Navarasam Arts and Science College for Women, Arachalur on 18.08.2011.
- ✓ **Attended** A One day State level Seminar on “Nuclear Energy, Nuclear Reactor & Their Safety –An Overview” Organised by Departments of Physics and Life Science, APA College for Women, Palani on 26.12.2011.
- ✓ **Attended** A One Day National Level Workshop on “Socio-Religious Philosophies of Pragmatism” Organised by PG and Research Department of History, APA College for Women, on 21.03.2012.
- ✓ **M.Amutha.,** Effect of Various Extraction Techniques on The Yield of Ethylacetate Extract of *Kedrostis Foetidissima(Jacq.)Cogn*, presented a paper in UGC,CSIR,DST &TNSCST Sponsored National Seminar on “Emerging Trends in Chemistry ETC-4,2012” Organised by Postgraduate Department of Chemistry, CPA College, Bodinayakanur on 04.10.2012 and 05.10.2012.
- ✓ **Attended** UGC,CSIR,DST &DRDO Sponsored Two Day National Workshop on “Applications of Nano Particles, Materials & Sensors” Organised by PG and Research Department of Chemistry, The American College, Madurai on 07.12.2012 and 08.12.2012.
- ✓ **M.Amutha,** “Importance of phytochemical screening analysis” presented a paper in the national level seminar on “The Widening Horizons of Chemistry (TWHC-(II)-2013)”

organised by The Department of Chemistry, APA College for Women, Palani on 11.02.2013.

- ✓ **Attended** National Level seminar on “Medicinal Plants Diversity –Threats, Conservation and Prospectives” organize by The Department of Botany, APA College for Women, Palani on 01.03.2013.
- ✓ **M.Amutha**, Real life applications of differential equations, presented a paper in National level seminar on “Advances in Differential Equations and Its Applications” organised by The Department of Mathematics, APA College for Women, Palani on 15.03.2013.
- ✓ **Attended** National level seminar on “Energy and Nano Technology” organised by The Department of Physics, APA College for Women, Palani on 12.04.2013.
- ✓ **M.Amutha**, Chemometrics presented a paper in International Level seminar on “Advances in Numerical Analysis and Applied Mathematics” ” organised by The Department of Mathematics, APA College for Women, Palani on 24.08.2013.
- ✓ **M.Amutha**, A review on phytochemical and medicinal uses of *cucurbita foetidissima*, presented a paper in CSIR sponsored National level seminar on “PROTEOFEST -2014 Global Opportunities for Recent Developments in Science and Technology” organised by The Department of Biochemistry, Rev.Jacob Memorial Christian College, Ambilikkai on 08.02.1014.
- ✓ **M.Amutha**, Water- bio-resource management for sustainable development for future , a paper presented in National Level seminar on “Biodiversity – A Perspective for Future Era” organised by PG and Research Department of Zoology, APA College for Women, Palani on 28.01.2014.
- ✓ **M.Amutha**, Carbon nanotubes as a novel tool for vaccination against infectious diseases and cancer paper presented in State level seminar on “Novel Trends in Chemistry” organised by The Dept. of Chemistry, APA College for Women, Palani on 30.01.2014.
- ✓ **M.Amutha**, Surface Chemistry of CdSe Quantum Dots, paper presented in UGC Sponsored National level seminar on “Emerging Trends in Frontiers of Chemistry” organised by The Dept. of Chemistry, GVG Visalakshi College for Women, Udumalpet on 30.12.2014.
- ✓ **M.Amutha**, “Biogenic process” – A green approach for the synthesis of nanoparticles, a paper presented in National Level seminar on “The Widening Horizons of Chemistry –III (TWHC-(III) -2015)” organised by the Department of Chemistry, APA College for Women, Palani on 05.03.2015.
- ✓ **M.Amutha**, *Nelumbo Nucifera*- Traditional Folk Remedy For Skin Diseases presented a paper in National Level seminar on “Recent Advances and Challenges in Plant Sciences” organised by The Department of Botany, APA College for Women, Palani on 06.03.2015.
- ✓ **M.Amutha** , MSG – A silent killer lurking in our kitchen , presented a paper in National seminar on organised by “Recent Challenges in Zoology” PG Dept of Zoology, APA College for Women on 09.09.2015.

- ✓ **M.Amutha**, Chemical kinetics and separable differential equations , a paper presented in National Level seminar on “Recent Development in Differential Equations”, organised by The Department of Mathematics, APA College for Women on 23.09.2015.
- ✓ **Attended**, International Conference on “Latest Developments in The Applications of Laser Technology” organised by Departments of Physics and Chemistry, PSGR Krishnammal College for Women, Coimbatore on 7.12.2015.
- ✓ **M.Amutha**, In vitro antiproliferative effect of biosynthesized silver nano particles on human Osteosarcoma cell lines (MG-63), presented a paper in UGC and The U.S. Consulate General, Chennai sponsored International Conference on “Translational Cancer Research, ICTCR2015” organised by Avinashilingam University for Women from 14 .12.2015 to 16.12. 2015.
- ✓ **Participated** in State level Workshop on “Recent Trends in Spectroscopy & Polymer chemistry”, organised by The Department of Chemistry, APA College for Women on 08.01.2016.
- ✓ **M.Amutha**, Antibacterial activity of leaf, Stem solvent extracts and isolated compounds of *Kedrostis foetidissima*(Jacq.) Cogn. Against *Coryne* bacterium. (ISBN :81-8446-755-9), presented a paper in ICMR(Delhi) sponsored National conference on “Challenging issues and Technological approaches in Medicine- CITAM 2016” organised by Department of Science and Humanities, Avinashilingam University for Women on 19-02.2016 and 20-02.2016.
- ✓ **M.Amutha**, Nano medicines of natural product origin- recent advancements (ISBN 978-93-86176-36-3), presented a paper in UGC sponsored National seminar on “Eco-waste management and nanobiology “EWMN-2016” organised by The Department of Zoology, Sri G.V.G. Visalakshi college for women, Udumalpet on
- ✓ **Participated** in UGC sponsored National level workshop on “Nano structured materials (NSM 2017)” organised by The Department of Chemistry, Kongunadu Arts and Science College, Coimbatore on 13.07.2017 and 14.07.2017.

Faculty Development program attended

Orientation and Retraining programmes and Motivation Workshop

- **Attended** UGC Sponsored “Orientation & Retraining of Teachers” at APA College for Women , Palani on 18.09.2010.
- **Attended** UGC Sponsored Motivation Workshop on “Capacity Building of Women Managers in Higher Education” organized by Ethiraj College for Women, Chennai from 20.02.2012 to 24.02.2012.
- **Attended** “Orientation and Retraining of Teachers” APA College for Women, Palani on 02.02.2013.
- **Attended** “Orientation and Retraining of Teachers” APA College for Women, Palani on 11.04.2015.

Orientation, Refresher and Short term courses

- **Attended** NSS orientation and training course at Orientation and training centre, Avinashilingam University for Women, Coimbatore from 20.10.2010 to 29.10.2010.
- **Attended** UGC sponsored Orientation Course at Academic staff college, Bharathiar University, Coimbatore from 09.06.2011 to 06.07.2011.
- **Attended** UGC Sponsored “SPSS Hands on Training” a Short term course at UGC-Academic Staff College, Bharathiar University, Coimbatore from 03.01.2013 to 09.01.2013.
- **Attended** UGC Sponsored Refresher Course In Chemistry at Academic Staff College, Bharathiar University, Coimbatore from 06.11.2014 to 26.11.2014.
- **Attended** UGC Sponsored Refresher Course in Environmental Science (ID) at Academic Staff College, Bharathiar University, Coimbatore from 10.05.2017 to 30.05.2017.

Papers Published in Journal

- ❖ **M.Amutha** and P.Lalitha A Review on *Kedrostis foetidissima*(jacq.)cogn., *Journal of Pharmacy Research* 2012,5(5),2644-2647; ISSN: 0974-6943.
- ❖ **Amutha M** and Lalitha P, Evaluation of Wound Healing Activity of Leaf and Stem Extract of *Kedrostis Foetidissima* (Jacq.) Cogn. *RJPBCS* Volume 4 Issue 2 Page No.445., ISSN: 0975-8585 April – June 2013.
- ❖ **M. Amutha**¹ P. Lalitha,² and M. Jannathul Firdhouse², Biosynthesis of Silver Nanoparticles Using *Kedrostis foetidissima* (Jacq.) Cogn. Hindawi Publishing Corporation, *Journal of Nanotechnology*, Volume 2014, Article ID 860875, 5 pages, <http://dx.doi.org/10.1155/2014/860875>.
- ❖ **M.Amutha**, and P.Lalitha, Evaluation of anti oxidant activities of stem and leaf extracts of *Kedrostis foetidissima* (Jacq) Cogn , *Int J Res Pharm Sci* 2015, 5(1) ; 28 – 34. ISSN 2249-3522.
- ❖ **M.Amutha** and P.Lalitha, Biological Effect of *Kedrostis foetidissima* On A-549 Lung Cancer Cell Lines 2015. *International J Ext Res*. 5:10-13 e-Print ISSN: 2394-0301.
- ❖ **Amutha.M**^{1*} Lalitha.P², Proximate Analysis Of leaf and Stem of *Kedrostis Foetidissima* (Jacq.) Cogn. *International Journal Of Natural Products And Marine Biology*, Vol. 1 Issue 1, 2015; 7 – 10; www.ijpct.sbtjournals.com.
- ❖ **Amutha.M**^{1*} Lalitha.P² Cytotoxicity effect of Ethanol extract of *Kedrostis Foetidissima* (Jacq.)Cogn. in Human Osteosarcoma Cell Lines (MG-63). *International Journal of Pharmaceutical Chemistry & Toxicology* Vol. 1 Issue 1, 2015; 42 – 45.

- ❖ **Amutha Muthusamy**, Lalitha Pottail, Screening of *Kedrostis Foetidissima* (Jacq.) Cogn. extracts for A-Amylase Inhibition, *International Journal of Interdisciplinary Research and Innovations* ISSN 2348-1218 (print)ISSN 2348-1226 (online) Vol. 3, Issue 4, pp: (106-110), Month: October - December 2015, Page | 106.
- ❖ **Amutha.M** and Lalitha P.,Phytochemical Screening and In vitro Evaluation of Antimicrobial Activity of *Kedrostis foetidissima* extract impregnated Face Mask *International Journal of Pharma And Chemical Research* ,Volume 1, Issue 4, Oct – Dec I 2015, 165 . ISSN 2395- 3411.
- ❖ **Amutha.M¹**, Lalitha P² and M. Jannathul Firdhouse², *In silico* Structure Based Drug Designing Of Lead Compounds For Lung Cancer, *World Journal of Pharmacy and Pharmaceutical Sciences*, Volume 6, Issue 8, 1306-1316 .,ISSN 2278 – 4357.
- ❖ Ganesan Venkatachalam¹ and Amutha Muthusamy², Phytochemical evaluation and anticancer activity of *Ocimum sanctum* L. - A review, *Journal of Pharmacy Research*, 2018, 12(7): 917-923. ISSN 0974-6943.

Book Chapters

- **Amutha.M** and Lalitha.P., 2015, “Cytotoxicity effect of Ethanol extract of *Kedrostis Foetidissima*(Jacq.)Cogn. in Human Osteosarcoma Cell Lines (MG-63)” , 2016. Proceedings of “ICMR sponsored National Conference on Challenging Issues and Technological Approaches in Medicine” Published by Department of Science and Humanities, Faculty of Engineering, Avinashilingam University for Women, Coimbatore.ISBN:81-8446-755-9, pp: 89-92.
- **Amutha.M**, 2016,”Nanomedicines of Natural Product Origin-Recent Advancements” Proceedings of UGC sponsored One Day National Level Seminar on Eco-Waste Management & Nanobiology [EWMN-2016] Organised by Department of Zoology, Sri G.V.G Visalakshi College for women, Udumalpet, Published by BORNFRING Intellectual Integrity, Coimbatore. ISBN: 978-93-86176-36-3.