

## FACULTY PARTICULARS

**Department:** Biotechnology

Name: Dr. M. N. Abubacker

Mobile No: 9894058524

Total Years of Experience: 30 years in Botany and 5 years in Biotechnology

Area of Specialization (by Research): Bio-energy, Aerobiology, Antimicrobial screening, Plant tissue culture, Microbial remediation and Phytoremediation, mycology and mycorrhizal study.

### Other Administrative Responsibilities

(such as in career guidance & Placement cell, NCC, NSS, EXNORA, college magazine and news bulletin; please refer student handbook for more..)

- ✧ Administrative Responsibility: Associate Professor and Head, Department of Biotechnology - 2011 to till date
- ✧ Associate Professor and Head, Department of Botany - 2003 to 2011.
- ✧ Member of Admission Committee from 1987 to 1993.
- ✧ Coordinator Environmental Studies for B.Sc. students 2004-05 and 2005-06.
- ✧ Coordinator for Sub-Committee for NAAC 2005.
- ✧ Coordinator for Academic Associations of the College 2006-07.
- ✧ Staff in-charge for issuing Railway and Bus Concession forms to the students 2008-09.
- ✧ Coordinator for Alagappa University, M.Sc. Botany (Distance Education) 2008-09, 2009-10, 2010-11 and 2011-12.

### Awards & Achievements:

Fellow of Hind Agri Horticultural Society (FHAS), Muzaffarnagar, UP, India from Dec.2009.

Fellow of National Academy of Science (FNASc) from 2013.

### Memberships in (external) Professional Clubs / Bodies:

- ✧ Global Academic Research Journals
- ✧ African Journal of Microbiology / African Journal of Biotechnology
- ✧ Panel of reviewer - International Journal of Biodiversity and Conservation, USA.
- ✧ International Research Journal of Microbiology.
- ✧ Hearld Journal of Microbiology and Biotechnology.
- ✧ Agricultural Science Research Journal
- ✧ International Research Journal of Pharmacy and Pharmacology
- ✧ Editorial Board Member/Life Member - International Journal of Plant Sciences - Hind-Agri-Horticultural Society, Muzaffarnagar, Utter Pradesh (from 2009)
- ✧ Life Member - Journal of Swamy Botanical Club - Bharathidasan University, Tiruchirappalli, Tamil Nadu (from 1995)

### Member in Board of Studies (other universities/institutions):

- ✧ **Member**, Board of Studies in PG Botany, Holy Cross College, Tiruchirappalli 2014-2015.
- ✧ **Member**, Board of Studies in PG Botany, Alagappa University, Karikudi - 2011-2013.
- ✧ **Member**, Board of Studies in PG Botany, Alagappa University, Karikudi - 2011-2013.
- ✧ **Member**, Board of Studies in Botany, Bishop Heber College, Tiruchirappalli - 2008-2010.
- ✧ **Member**, Board of Studies in Botany, Bharathidasan University, Tiruchirappalli - From 1st April 2009 onwards.

- ✧ **Chairman**, Board of Studies in PG Botany and **Member of the Standing Committee on Academic Affairs**, Bharathidasan University, Tiruchirappalli, from October 2005 to September 2008.
- ✧ **Chairman**, Question Paper Setting Board, PG Botany, Plant Biotechnology, Industrial Microbiology, Bharathiar University, Coimbatore, 2003 onwards.
- ✧ **Chairman**, Question Paper Setting Board, PG Botany, Periyar University, Salem, from 2006.
- ✧ **Member**, Board of Studies in PG Botany, Alagappa University, Karaikudi, from April 2006 to April 2009.
- ✧ **Member**, Board of Studies in UG, PG and M.Phil. Plant Biology and Plant Biotechnology, St. Joseph's College (Autonomous), Tiruchirappalli, from 2005 to 2008.
- ✧ **Member**, Board of Studies in UG, PG and M.Phil. Botany, Jamal Mohamed College, Tiruchirappalli, from June 2006 to May 2008.
- ✧ **Member**, Board of Studies in UG Botany, Government Arts College for Women, Pudukkottai, from 2008 to 2011.
- ✧ **Member**, Board of Studies in PG Botany, Bharathidasan University, Tiruchirappalli - from 2000 to 2002.

Extension activities / Consultation:

#### **Lectures delivered:**

#### **CHAIRPERSON**

- ✧ Chaired 45 Technical Session in Symposium

#### **RESOURCE PERSON**

- ✧ Resource Person for 42 UGC Refresher / Orientation Courses

#### **INVITED LECTURES**

- ✧ Delivered 52 invited lectures in various Colleges and Universities

### **Research Projects**

Projects:

FIST : Program Coordinator

Funded by: **DST, FIST, Govt. of India,**

Duration of project: 5 years; From 2004 to 2009

No. of Seminars / workshops organized: 20

Title of workshop / Seminar Organized:

1. Workshop on Bioprocess Technology (2011 – 2 Nos, 2012 – 2 Nos, 2013 - 3 Nos, 2014 – 7 Nos, 2017- 4 Nos)
2. IV International Conference of Organisation for Studies in Literature and Environment, India (OSLE) on Ecology: Texts and Contexts - 25-26 September 2009 - Jointly by Department of English and Department of Botany, National College, Tiruchirappalli.
3. Workshop on 'Horticulture and Landscape Gardening' conducted for Innerwheel Club, Tiruchirappalli - 30th August 2007 - Department of Botany, National College, Tiruchirappalli.

### Publication Details

No. of papers Published: 74

No. of Books published: 2

No. of M.Phil. Produced: 13

No. of Ph.D. produced: 3

No. of Ph.D. scholars at present: 6

#### Write up on Research Specialization (for not more than 200 words)

- **Bioenergy** crop to be utilised as non conventional energy source they were *Dodonea viscosa*, *Jatropha gossypifolia*, *Lantaana camera* and *Prosopis juliflora*.
- **Aero biological** studies identified as allergic pollen like *Oryza sativa*, *Cocos nucifera*, *Parthenium hysterophorus*, *Azadirachta indica* and *Typha anquastata* and allergic fungal spores such as *Cladosporium*, *Aspergillus*, *Nigrospora* and *Curvularia* which cause allergic response to human being.
- **Antimicrobial studies** of  $\alpha$ - amino acid dithiocabamates, Copper (II)- Schiff base complexes, N- bromonicotinamide, plant extracts like *cassia alata*, *Cassia tora*, *Lepidagathis cristata*.
- **Bioremediation studies** of *Fusarium oxysporum*, Bioaccumulation of heavy metals by *lemmna polyrrhiza*.
- **Tissue culture work** of *Ceropegia juncea*, *Azadirachta indica*, *Sorghum bicolor* and *Dendrobium* orchid are significant.
- **Fungal biodiversity** of sacred grove soils and virgin forest eco system of Doddabetta belt of Nilgris.