

Dr M BHUPATHI RAYALU

Lecturer in BOTANY

Name:	MATALA BHUPATHI RAYALU
Desination:	Lecturer
Subject:	Botany
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DOB:	12-08-1984
Date of joining in to service:	04-02-2012
Appointment type:	Direct Recruitment (DR)

Working stations' Details

S.No.	Stations worked	From	TO
1	YVNR GDC, Kaikaluru	04-02-2012 (FN)	31-05-2017 (AN)
2	GDC, Razole	31-05-2017 (AN)	02-10-2021 (AN)
3	GDC, Kovvur	02-10-2021 (AN)	till date

Departmental tests

S.No.	Test details with code	Hall Ticket Number
1	APPSC NOTIFICATION NO.03/2013 : Special Language Test for Officers of Education Department - Higher Standard -(37)	11501512

Training courses

S.No.	Course type	Title of the course	Conducted by	from	to	Grade obtained
1	Orientation Course (OC)	76th Orientation course	University of Hyderabad	26-04-2012	23-05-2012	A
2	Refresher course (RC)	Special summer refresher course for basic sciences	Andhra Univeristy, Visakhapatnam	30-05-2013	19-06-2013	A
3	Refresher course (RC)	Environmental sciences	Andhra Univeristy, Visakhapatnam	01-06-2015	21-06-2015	A
4	FDP	Outcome Based Education (OBE)	IIITDM, Kurnool	06-05-2019	11-05-2019	Completed
5	FDP	MOOCs, e-Content Development & Open Educational Resources	MANUU, Hyderabad	17-06-2019	22-06-2019	Completed
6	FDP	Botany: New knowledge, pedagogical methods: New frontiers in emerging echnologies	CCE, Vijayawada	13-07-2020	17-07-2020	Completed
7	FDP	LMS Video & Pedagogy	CCE, Vijayawada	03-08-2020	07-08-2020	Completed
8	FDP	Outcome Based Education: Teaching, Learning and Evaluation	PVKN Govt. College (A), Chittoor	26-03-2021	30-03-2021	Completed
9	Refreher Course	Advanced Research Methodology	Teaching Learning Centre, Ramanujan College, University of Delhi	23-01-2023	06-02-2023	A+
10	TOT	Training Programme on Internship and LMS	CCE, Vijayawada & Nodal Resource Center, Rajahmundry	05-01-2023	07-01-2023	Completed
11	FDP	English Medium of Instruction - Proficiency in english & Maximizing Goba Opportunities	CCE, Vijayawada	12.06.2023	17.06.2023	Completed
12	TOT	5 day non-residential training of the trainers programme (TOT) on "Botany & Microbiology)	NRC, PR Govt. College (A), Kakinada & CCE, Vijayawada.	29.02.2024	05.03.2024	Completed

Online Courses

S.No.	Course type	Title of the course	Conducted by	Hall Ticket Number	Exam pass date	Grade / % obtained
1	MOOCs - SWAYAM ARPIT ONLINE COURSE CERTIFICATION	Development Perspectives in Agriculture	Institute of Agricultural Sciences, Banaras Hindu University, Varanasi.	19072021960	08-11-2019	D
2	MOOCs - SWAYAM ONLINE COURSE CERTIFICATION	Environmental Studies	Dr. Tushar Banerjee of Devi Ahilya Vishwavidyalaya, Indore	403749	13-12-2019	87%
3	MOOCs - SWAYAM ONLINE COURSE CERTIFICATION	Resources and Environment	Dr V Krishna kumar of University of Mysore, Mysuru	AP130111005	18-10-2021	83%

PUBLICATIONS

(Dr. M. Bhupathi Rayalu, Lecturer , Department of Botany, Government Degree College,
Kovvur, East Godavari Dist. – 534 350)

Publications (39):

1. **M. Bhupathi Rayalu**, M. Vijayakumar and K. Gani Raju. Carbon Gold: How Tropical Rainforests are Key to Climate Survival. *Bioscene*. 2024. 21(3): 306-322.
2. Shaik Beebi, Syed Vaziha Tahaseen, and **M. Bhupathi Rayalu**. A Review On Combating Black Mold Disease In Onions: A Synergistic Approach To Combat *Aspergillus Niger* For Sustainable Storage. *International Journal of Creative Research Thoughts (IJCRT)*. 2024. 12(9): 165-172.
3. **M. Bhupathi Rayalu** and Shaik Beebi. An In-Depth Research Review On Synthetic Biology: Engineering Life At The Molecular Level. *International Journal of Creative Research Thoughts (IJCRT)*. 2024. 12(9): 101-112.
4. **M. Bhupathi Rayalu** and N. Siddulu. Carbon footprints and beyond: Innovative approaches to reducing greenhouse gas emissions. *International Journal of Ecology and Environmental Sciences*. 2024; 6(3): 86-92.
5. **M. Bhupathi Rayalu** and S. Anuradha. The intersection of ecology and agriculture: Biological control as a tool for pest management. *International Journal of Plant Pathology and Microbiology*. 2024; 4(2): 46-51.
6. **M. Bhupathi Rayalu** and S. Anuradha. Photosynthetic efficiency in crops: Challenges and Innovations. *South Asian Journal of Agricultural Sciences*. 2024; 4(2): 120-124.
7. **M. Bhupathi Rayalu** and S. Anuradha. Molecular breeding in ornamental plants: Recent trends and future prospects. *International Journal of Horticulture and Food Science*. 2024; 6(2): 25-30.
8. **M. Bhupathi Rayalu** and P. Kirankumar. Eco-biology of the blue pansy butterfly, *Junonia orithya* L. (Lepidoptera: Rhopalocera: Nymphalidae) from the east coast of Southern India. *Acta Entomology and Zoology*. 2024; 5(2): 95-100.
9. **M. Bhupathi Rayalu**, Y. Gnanaprasunamba, M. Poornachander Rao, P. Kirankumar. Innovative approaches in vector control: The role of biopesticides and botanical insecticides. *International Journal of Entomology Research*. 2024; 9(9): 27-33.
10. **M. Bhupathi Rayalu** and M. Poornachander Rao. Plant pathogen resistance: Understanding mechanisms and developing new strategies. *International Journal of Plant Pathology and Microbiology*. 2024; 4(2): 34-39.
11. **M. Bhupathi Rayalu**, N. Siddulu and K. Gani Raju. Exploring the genetic diversity of medicinal plants: Conservation and biotechnological approaches. *Journal of Medicinal Plants Studies*. 2024; 12(4): 396-401.
12. **M. Bhupathi Rayalu**, M. Vijayakumar, and M. Poornachander Rao. Innovations in biotechnology: Recent advances and future directions. *International Journal of Biotechnology and Microbiology*. 2024; 6(3): 33-41.
13. **M. Bhupathi Rayalu**, P. Kirankumar, M. Behara, B. Ahmad Ali Baba. Insect-plant coevolution: A dynamic relationship shaping ecosystems. *International Journal of Entomology Research*. 2024; 9(8): 236-240.
14. B. Samatha, **M. Bhupathi Rayalu**, M. Vijayakumar. Life cycle and larval performance of the endangered pea blue butterfly, *Lampides boeticus* (Linnaeus, 1767) (Lepidoptera: Lycaenidae)

from Visakhapatnam, east coast of south India. *International Journal of Entomology Research* 2024; 9(8): 217-221.

15. **M. Bhupathi Rayalu** and M. Vijayakumar. The future of vaccines: Exploring new technologies and strategies for disease prevention. *International Journal of Clinical Biology and Biochemistry* 2024; 6(2): 01-05.
16. **M. Bhupathi Rayalu**. Climate change and agricultural productivity: An in-depth review of impacts, adaptation strategies, and policy implications. *South Asian Journal of Agricultural Sciences*. 2024; 4(2): 94-100.
17. **M. Bhupathi Rayalu**, Y. Gnanaprasunamba, M. Vijayakumar. Nanobiotechnology: Merging Nanotechnology with Biological Sciences. *International Journal of Advanced Research in Biological Sciences*. 2024.11(8): 31-40.
18. **M. Bhupathi Rayalu**. Life history and larval performance of the dark grass blue butterfly, *Zizeeria karsandra* (moore, 1865) (Lepidoptera: Lycaenidae) from Visakhapatnam, east coast of south India. *International Journal of Environmental and Ecology Research*. 2024. 6(1): 22-26.
19. B. Samatha and **M. Bhupathi Rayalu**. Ecobiology of the Tamil Bushbrown Butterfly, *Mycalis subdita* Moore (Lepidoptera: Rhopalocera: Nymphalidae: Satyrinae) from Visakhapatnam, East Coast of Southern India. *Journal of Entomology and Zoology Studies*. 2024. 12(3): 232-237.
20. B. Samatha and **M. Bhupathi Rayalu**. Patterns of Seasonality in the flight and early stages of some south Indian butterfly Species. *International Journal of Entomology Research*. 2018. 3 (3): 28-33.
21. B. Samatha and **M. Bhupathi Rayalu**. Ecobiology of Common Evening Brown, *Melanitis leda* Linn. (Lepidoptera: Rhopalocera: Nymphalidae: Satyrinae). *International Journal of Advanced Research in Science and Technology*. 2016. 5 (2): 617-622.
22. G. Sujana Chandar, K. Ella Rao, **M. Bhupathi Rayalu** and J.B. Atluri. Fruiting pattern in *Delonix elata* (L.) Gamble (Family: Caesalpiniaceae). *International journal of Multidisciplinary Educational Research*. 2016. 5(3:5): 234--255.
23. G. Sujana Chandar, K. Ella Rao, **M. Bhupathi Rayalu** and J.B. Atluri. Fruiting pattern in *Delonix regia* (Boj. Ex Hook) Raf. (Family: Caesalpiniaceae). *International Journal of Advanced Research in Science and Technology*. 2016. 5 (1): 544-552.
24. G. Sujana Chandar, K. Ella Rao, **M. Bhupathi Rayalu** and J.B. Atluri. Floral Phenology of *Delonix elata* (L.) Gamble (Family: Caesalpiniaceae). *International journal of Multidisciplinary Educational Research*. 2015. 4(9:3): 36-59.
25. G. Sujana Chandar, K. Ella Rao, **M. Bhupathi Rayalu** and J.B. Atluri. Floral Phenology of *Delonix regia* (Boj. Ex Hook) Raf. (Family: Caesalpiniaceae). *International Journal of Advanced Research in Science and Technology*. 2015. 4 (5): 449-458.
26. **M. Bhupathi Rayalu**, V. Krishna Kumari, M. Tarakeswara Naidu and J.B. Atluri. Life history and larval performance of the Common Leopard butterfly, *Phalanta phalantha* Drury (Lepidoptera: Rhopalocera: Nymphalidae). *International Journal of Advanced Research in Science and Technology*. 2014. 3 (4): 191-195.
27. B. Samatha, **M. Bhupathi Rayalu**, A. Janaki Bai. Ecological monophagy in the polyphagous nymphalid butterfly *Hypolimnas bolina*. *Journal of the Entomological Research Society*. 2014. 16 (2): 93-98.
28. **M. Bhupathi Rayalu**, J. B. Atluri, K. Shanmukh Sagar. Life History and Larval Performance Of The Nymphalid Butterfly, *Junonia Iphita* Cramer From India. *International Journal of Innovative Research and Development*. 2013. 2 (11): 234-241.

29. J.B. Atluri, B. Samatha, **M. Bhupathi Rayalu**. Life history, phenology, host plant selection and utilization in the endangered danaid eggfly *Hypolimnas misippus*. *International Journal of Advanced Research in Science and Technology*. **2013**. 2 (3): 117-126.
30. **M. Bhupathi Rayalu**, K. Chinna Rao, J.B. Atluri and S.P. Venkata Ramana. Life history and larval performance of the Monkey puzzle butterfly *Rathinda amor* Fabricius (Lepidoptera: Rhopalocera: Lycaenidae) from India. *Journal of National Taiwan Museum*. **2012**. 65(3): 1-11.
31. **M. Bhupathi Rayalu**, V. Krishna Kumari, K. Chinna Rao. Life History and Larval Performance of the Tiny Grass Blue Butterfly, *Zizula hylax hylax* Fabricius (Lepidoptera: Lycaenidae). *Advances in Bioresearch*. **2012**. 3 (4): 03 – 08.
32. **M. Bhupathi Rayalu**, K. Ella Rao, D. Sandhya Deepika, J.B. Atluri. Life history and larval performance of the Peacock pansy butterfly, *Junonia almana* Linnaeus (Lepidoptera: Rhopalocera: Nymphalidae). *IOSR Journal of Environmental Science, Toxicology and Food Technology* **2012**. 1(2): 17-21. DOI: 10.9790/2402-0121721
33. J. B. Atluri, K. Chinna Rao, **M. Bhupathi Rayalu** and D. Sandhya Deepika. Host plant utilization of butterflies at Visakhapatnam. *The Bioscan*. **2012**. 7(1): 85-90.
34. **M. Bhupathi Rayalu**, M. Tarakeswara Naidu, J.B. Atluri, and C. Subba Reddi. Life history and larval performance of the Joker butterfly, *Byblia ilithyia* (Lepidoptera: Rhopalocera: Nymphalidae). *Journal of Entomological Society of Iran*. **2011**. 31 (1): 71-85.
35. J. B. Atluri, K. Chinna Rao, D. Sandhya Deepika and **M. Bhupathi Rayalu**. Butterfly species richness and seasonality in the *Anacardium* plantations. *The Bioscan*. **2011**. 6(2): 249-252.
36. J.B. Atluri, B. Samatha, **M. Bhupathi Rayalu**, D. Sandhya Deepika and C. Subba Reddi. Ecobiology of the Common castor butterfly *Ariadne merione merione* (Cramer) (Lepidoptera: Rhopalocera: Nymphalidae). *Journal of Research on the Lepidoptera*. **2010**. 42: 13-20.
37. J.B. Atluri, **M. Bhupathi Rayalu**, and D. Sandhya Deepika. Life history and larval performance of the Common tiger butterfly, *Danaus genutia* Cramer (Lepidoptera: Rhopalocera: Danaidae). *The Bioscan*. **2010**. 5(3): 511-515.
38. J. B. Atluri, B. Samatha, **M. Bhupathi Rayalu**, D. Sandhya Deepika and C. Subba Reddi. Ecobiology of the South Indian palmfly *Elymnias caudata* Butler (Lepidoptera: Rhopalocera: Nymphalidae: Satyrinae). *Proceedings of the National Academy of Sciences* (section – B, Biological Sciences). **2010**. 80 (Part II): 128-134.
39. B. Samatha, **M. Bhupathi Rayalu**, J.B. Atluri and C. Subba Reddi. Life history and larval performance of the Psyche butterfly *Leptosia nina* (Rhopalocera: Pieridae). *National Academy Science Letters*. **2008**. 31 (Vol. 1&2), 45-49.

BOOKS (1):

01. **Medicinal Uses of our Backyard Plants**; 2015, Lap Lambert Publishers;
ISBN: 978-3-659-80393-2

BOOK CHAPETRS (3):

01. **M. Bhupathi Rayalu. “Artificial Intelligence Applications in Environmental Sciences”.**
In “Natural Resource Management and Environmental Security (Volume - 6)”. 2024. Page
Nos. 45-56. ISBN: 978-93-5834-074-7.
02. **M. Bhupathi Rayalu. “Biodiversity and Ecosystem Services: Effects on Agricultural
Biodiversity and the Ecosystem Services that Support Agricultural Productivity”.** In
“Climate Change and Agriculture (Volume - 11)”. 2024. Page nos. 121-139.
ISBN: 978-93-6135-818-0.
03. **M. Bhupathi Rayalu** and Prof. J. Suneetha. Ecobiology of the Lycaenid Butterfly, *Zizula
hylax hylax* Fabricius. **(P.Nos. 15 – 23)**. One Day National Seminar on “Forest Resources,
Diversity, Utilization and Conservation”. **(05-11-2022)**. Sponsored by Telangana State
Council of Higher Education. Organized by Department of Botany, Gopal Rao Patil
Government Degree College, Bhainsa. Dist. Nirmal, Telangana State – 504 103. Seminar
Proceedings published by **Paramount Publishing House NEW DELHI & HYDERABAD.**
ISBN: 978-93-93259-95-0.
