

1. Name : DIBYENDU SEKHAR MAHANTY
2. Designation: Assistant Professor of Botany (West Bengal Education Service, W.B.E.S.)
3. Department – Post Graduate Department of Botany
4. Date of joining Barasat Government College: 8th December, 2014
5. Qualification : M.Sc in Botany
6. Photograph:



7. Professional experience: 11 years of teaching experience in graduate and post graduate departments in Darjeeling Government College & Barasat Government College
8. Pursuing PhD in Botany in West Bengal State University
9. Pursuing research and review works with the final semester students of M.Sc in Botany from last 11 years
10. Researchgate link: <https://www.researchgate.net/profile/Dibyendu-Mahanty-2>
11. Research Papers / book chapters

LIST OF PAPERS/ CHAPTERS OF BOOK PUBLISHED BY DIBYENDU SEKHAR MAHANTY IN LAST FIVE YEARS

1. Book *Advances In Biology: Eastern Himalayas Perspective*
Chapter 18: Exomorphological Diversity of the genus *Hedychium*; J. Koenig (Zingiberaceae) Niraj Rai, Dibyendu Sekhar Mahanty, Subhasis Panda
ISBN No. 978-93-85375-05-7
2. Inventorization and Documentation of Herbal Black Salt Preparation by the Apatanese (Abo-Tani) of Apatani Valley in Lower Subansiri District of Arunachal Pradesh (India) using 'Gonde Unio' Plant (*Ambrosia artemisiifolia* L.---Asteraceae)
World Scientific News WSN 47(2) (2016) 254-266 EISSN 2392-2192
Subhasis Panda^{1,a}, Priyanka Roy^{2,b}, Dibyendu S Mahanty^{3,c}
Link : <http://www.worldscientificnews.com/wp-content/uploads/2015/10/WSN-472-2016-254-266.pdf>
3. Chemical-induced seed germination and enhancement of seed potential of seven wild plant taxa of Ericaceae in India *World Scientific News* WSN 114 (2018) 249-255
EISSN 2392-2192 Chandan Kumar Pati¹, Aloke Bhattacharjee², Priyanka Roy³, Dibyendu S. Mahanty⁴ and Subhasis Panda^{5,*}

Link: <http://www.worldscientificnews.com/wp-content/uploads/2018/09/WSN-114-2018-249-255.pdf>

4. BIOSYNTHESIS OF MYO-INOSITOL IN CHLOROPLASTS OF SALINITY-STRESSED MARINE MACRO ALGA *ULVA LACTUCA*
BOTANICA ISSN 2538-8657 2019, 25(1): 32–40
Sautrik Basu^{1*}, Anusuya Basak², Dibyendu Sekhar Mahanty¹, Sayani Bhattacharjee¹,
Jukta Adhikari^{1,2}
Link
https://botanicalithuanica.gamtc.lt/administravimas/uploads/04_botanica25_12019_basu_et_al_6015265640f97.pdf
5. Comparative characteristics of cytosolic and chloroplastidial D/L- myo-Inositol-1-phosphate phosphatase partially purified from *Enteromorpha intestinalis* (L.) Nees (a marine macro alga) grown under high salinity niche
Phycology International 2019; volume 2:62 Sautrik Basu,¹ Anusuya Basak,² Dibyendu Sekhar Mahanty,¹ Sayani Bhattacharjee,¹ Jukta Adhikari^{1,2}
Link: <https://pagepress.org/technology/index.php/phycol/issue/view/13>
6. Salinity endurance of marine macro Rhodophycean algae with special emphasis on myo-inositol biosynthesis: An enzymological analysis from *Halymenia venusta* Børgesen
Journal of Plant Stress Physiology 2020, 6: 30-39 doi: 10.25081/jpsp.2020.v6.6351
Dibyendu Sekhar Mahanty, Sautrik Basu*, Jukta Adhikari
Link: <https://updatepublishing.com/journal/index.php/jpsp/article/view/6351>
7. Purification, Spectral analysis and characterization of r-phycoerythrin pigment from *Solieria robusta* (Greville) Kylin
Indian J. Applied & Pure Bio. Vol. 36(1), 103-114 (2021). ISSN: 0970-2091 Dibyendu Sekhar Mahanty *
8. *Ficus* L. as a Keystone genus in Sacred groves for sustaining Avian diversity: A case study in Some parts of Lower Gangetic Plain
Indian J. Applied & Pure Bio. Vol. 36(1), 115-127 (2021) ISSN: 0970-2091 Dibyendu Sekhar Mahanty *
Link : <http://biology-journal.org/journal/volume36/issue71/ijapb36-1-12.html>
9. Exomorphological Variation in *Gaultheria fragrantissima* Wall. (Ericaceae: Vaccinioideae) in India: A Micromorphological Solution from Leaf Stomata and Pollen Morphology
Indian J. Applied & Pure Bio. Vol. 36(1), 167-179 (2021). ISSN: 0970-2091 ^{1,3}S. Panda, ^{2,3}T. Majumder and ³D. S. Mahanty
Link : <http://biology-journal.org/journal/volume36/issue71/ijapb36-1-19.html>
10. Diverse synthesis of pyrrolo/indolo[3,2-c] coumarins an isolamellarin-A scaffolds: a brief update
New J. Chem., 2021, Advance Article [Khokan Samanta](#),^a [Prasanta Patra](#),^{*b} [Gandhi Kumar Kar](#),^c [Shaishab Kumar Dinda](#)^d and [Dibyendu Shekhar](#)

LESSON PLANS FOR B.Sc curriculum

Semester	Class	Paper	Syllabi	Books referred	Mode of class
1 st Semester	Botany Hons	BOTACOR02T	Biomolecules and Cell Biology – Theory	- Lehninger Principle of Biochemistry 6th edition - Biochemistry 4th edition by Voet & Voet	Online since March 2020
		BOTACOR02P	Biomolecules and Cell Biology – Practical	- Lehninger Principle of Biochemistry 6th edition - Biochemical Methods – Sadasivam A. Manickam - Modern Experimental Biochemistry 3rd edition	Online since March 2020
	Hons General	BOTHGEC01T	Archegoniate – Theory	- College Botany Vol-II - Botany for degree students Bryophyta – B.R. Vashishta	Online since March 2020
		BOTHGEC01P	Archegoniate – Practical	-do-	-do-
	BOTG	BOTGCOR01T	Archegoniate – Theory	-do-	-do-
		BOTGCOR01P	Archegoniate – Practical	-do-	-do-
	Botany Hons	BOTACOR04T	Archegoniate – Theory	- College Botany Vol-II - Botany for degree students Bryophyta –	

				B.R. Vashishta	
	Botany Hons	BOTACOR04P	Archegoniate – Practical	• Google • College Botany Vol-II • Botany for degree students - Bryophyta – B.R. Vashishta • Google	
4 th Semester	Botany Hons	BOTACOR09T	Plant ecology and Geography	Ecology and Environment –P.D. Sharma Flora of India -BSI Bengal Plants – David Prain	Online classes since March, 2020
	Botany Hons	BOTACOR09P	Plant ecology and Geography	-do-	-do-
	Bio Gen	BOTGCOR04T	Plant Physiology & Metabolism	Plant Physiology – Lincoln Taiz and Eduardo Zeiger Serach engines	-do-
	Bio Gen	BOTGCOR04T	Plant Physiology & Metabolism	-do-	-do-
5 th Semester	Botany Hons	BOTACOR12T	Plant Physiology	Plant Physiology – Lincoln Taiz and Eduardo Zeiger Search engines	-do-
		BOTACOR12P	Plant Physiology	-do-	-do-
	Bio Gen	BOTGDSE01T	Cell & Molecular Biology	Cell & Molecular Biology Concepts and Experiments – Gerald Karp	-do-
	Bio Gen	BOTGDSE01P	Cell & Molecular Biology	Cell & Molecular Biology Concepts and Experiments – Gerald Karp	-do-
6 th Semester	Botany Hons	BOTACOR13T	Plant Metabolism	Introduction to Plant Physiology –W.G. Hopkins & A. Huner Plant Physiology and Development – L. Taiz, E. Zeiger, I.M. Moller	-do-

				and A. Murphy	
		BOTACOR13P	Plant Metabolism	Phytochemical Methods – J.B. Harborne	

LESSON PLANS FOR M.Sc curriculum

SEMESTER	Paper	Syllabi	Books referred	Mode of class
1 st Semester	Departmental 1- Integrated Life science	Membrane Structure , function, cellular communication	Lehninger Principle of Biochemistry 6 th edition Biochemistry 4 th edition by Voet & Voet Cell & Molecular Biology Concepts and Experiments – Gerald Karp	Online since March, 2020
2 nd Semester	Departmental 9	Palaeobotany and Palynology	Paleobotany -the biology and evolution of fossil plants – Thomas N.Taylor, Edith L. Taylor, Michael Krings Palaeobotany and the evolution of Plants – Wilson N. Stewart and Gar W. Rothwell	-do-
3 rd Semester	Departmental 12	Plant Physiology & Biochemistry	Lehninger Principle of Biochemistry 6 th edition Biochemistry 4 th edition by Voet & Voet	-do-

			Biochemistry and Molecular Biology of Plants – Bob B. Buchanan, Wilhelm Gruissem and Russel L. Jones	
4 th Semester	Advanced Plant Physiology	Plant Physiology and Development 6 th edition – L. Taiz, E. Zeiger, I.M. Moller and A. Murphy Biochemistry and Molecular Biology of Plants – Bob B. Buchanan, Wilhelm Gruissem and Russel L. Jones Plant Pathology – G.N. Agrios		-do-
	Plant Molecular Biology	Biochemistry and Molecular Biology of Plants – Bob B. Buchanan, Wilhelm Gruissem and Russel L. Jones Molecular Cloning: Laboratory Manual – Joseph Sambrook and Russel Molecular Biology and Genomics – Elsevier Principles of Gene Manipulation and Genomics – S.B. Primrose &		-do-

Projects completed

1. UGC Minor Research Project on **STUDIES ON MYO-INOSITOL BIOSYNTHESIS IN MARINE MACRO ALGAE FOR FINDING A POTENTIAL SOURCE OF FREE MYO-INOSITOL OF PLANT ORIGIN**

Vide UGC approval no. F-PSW-240/15-16 (ERO) DATED 02/01/2017

2. Research Project on **INVENTORIZATION OD SACRED GROVES IN NORTH 24-PARGANAS DISTRICT OF WEST BENGAL**

Vide Sanction Letter No. 484/5K (Bio)-6/2017 dated 28/06/2017 Of the West Bengal Biodiversity Board

Excursions conducted in last 5 years

1. March, 2016 educational excursion with M.Sc. 4th Semester special paper to Chilika lagoon for specimen collection and study
2. October, 2016 educational excursion with the students of B.Sc. Botany Hons 2nd year to Vizag, Dandakaranya and Borra caves
3. October, 2017 educational excursion with the students of B.Sc. Botany Hons 2nd year to Vizag, Dandakaranya and Borra caves
4. October, 2018 educational excursion with the M.Sc. 2nd Semester students to Nainital, Ranikhet and Kumaon Himalayas
5. April, 2019 educational excursion with the students of B.Sc. Botany Hons 2nd Semester to Darjeeling Himalayas.
6. February, 2020 – Educational excursion with the 2nd Semester, M.Sc. Botany to West Sikkim and Barsey Rhododendron Sanctuary

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