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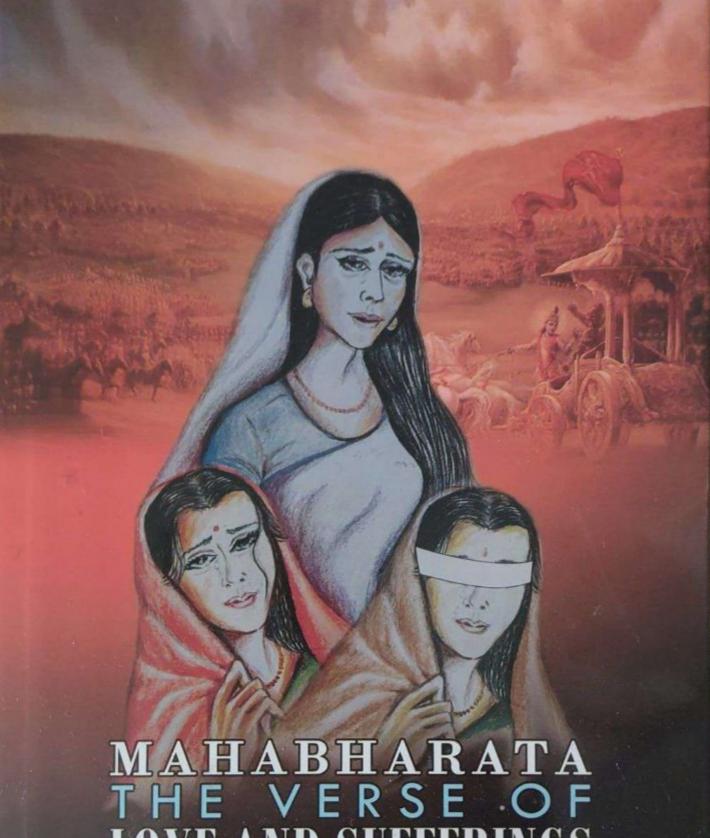
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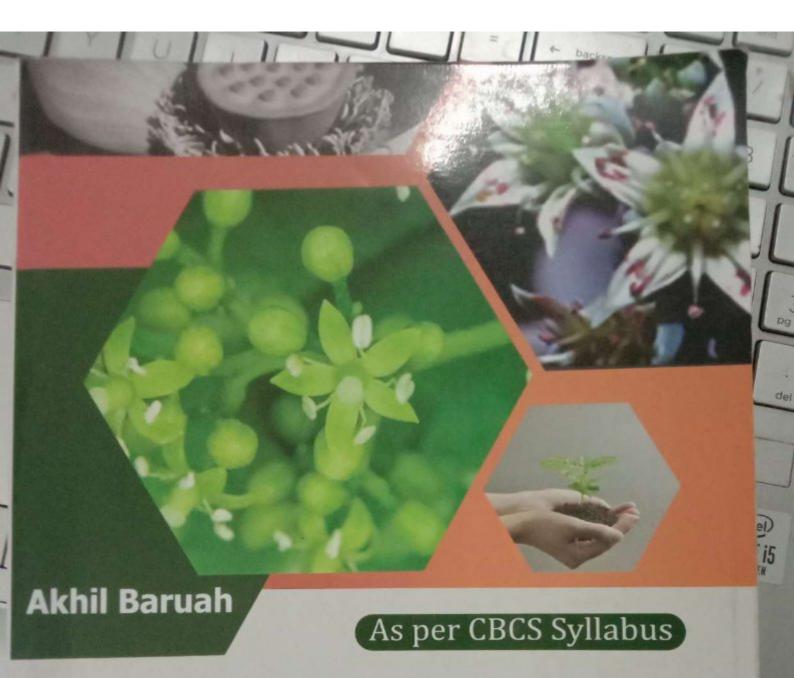
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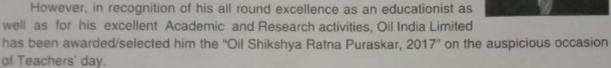
PLANT SYSTEMATICS

For B.Sc. Botany (Honours) 4th Semester Students of Assam and other Indian Universities

ABOUT THE AUTHOR

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Dr. Akhil Baruah

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Akhil Baruah Chittaranjan Baruah

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Fauna & Flora International (FFI) and Wildlife Conservation Society (WCS). Dr. Baruah was an Asian Scholar of ASPIn-situCC based at Wetlands Institute, New Jersey, USA for six months

Dr. Baruah is presently serving as Assistant Professor (Sr. G) in the Postgraduate Department of Zoology, Darrang College, Tezpur (under Gauhati University). Assam, India. Prior to the present appointment, he had served as Research Associate in Bioinformatics at the DBT-BIF Center, Gauhati University for a period of 3 years. Dr. Baruah has nine years of undergraduate and postgraduate teaching and research experience.

Dr. Baruah is so far credited with more than 40 research papers, 1 book, 8 book chapters, 30 seminar presented papers, delivered more than 25 talks in Bioinformatics as Visiting Professor in North Lakhimpur College (Autonomous) and as Resource person in the higher learning institutions of northeast India including Gauhati University, Assam Agriculture University, Bodoland University, CSIR-NEIST, Cotton University, USTM (Meghalaya), St. Anthonys's College (Shillong) Mangaldai College and Kaliabor College and Dhing College, Assam. He has completed four research projects as Principal Investigator with international funding. He is one of the Recognized Ph.D. Research Guides of School of Biological Sciences. University of Science and Technology, Meghalaya. He is the Life member of 10 National & International Professional Bodies. Editorial Board members, Indonesian Journal of Applied Environmental Studies (In JAST) and Reviewer of 6 international Bioinformatics and Molecular Biology journals published by Springer Nature, Elsevier and Taylor and Francis.

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Akhil Baruah

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Dr. Akhil Baruah



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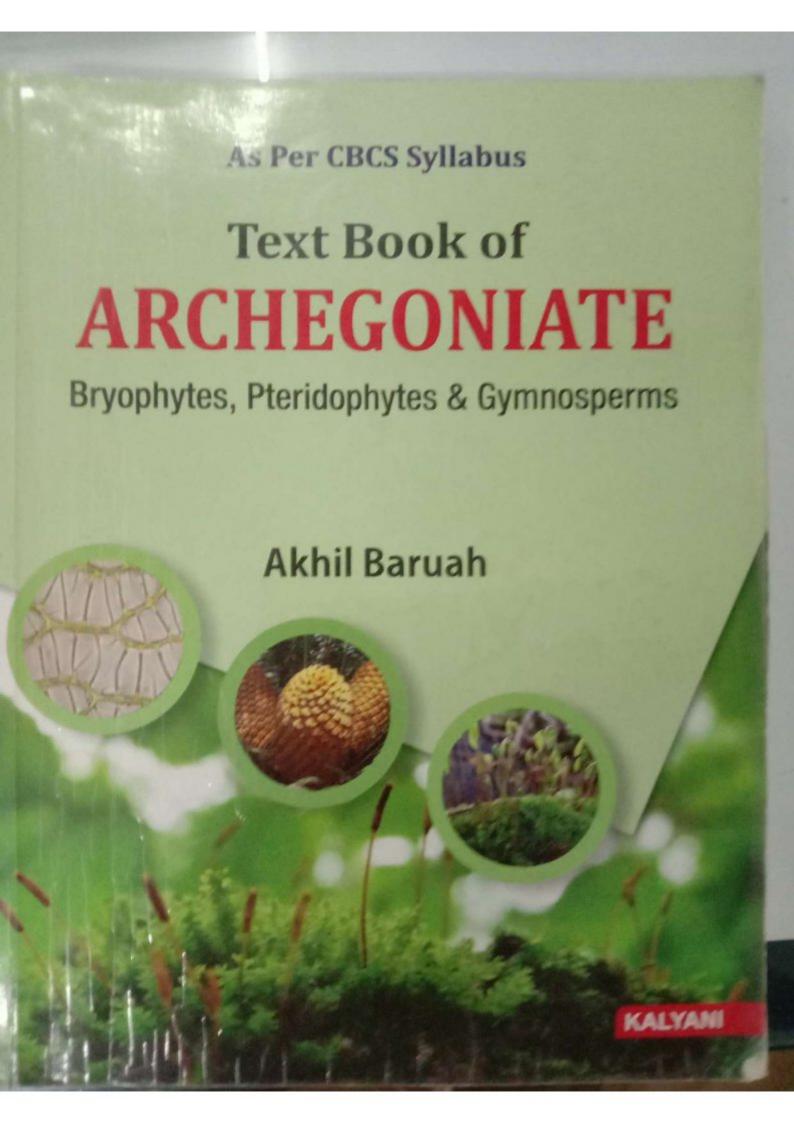
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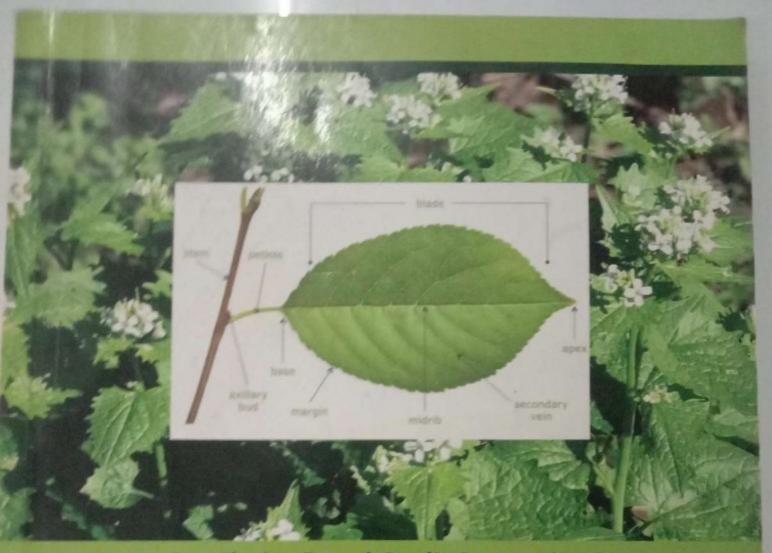
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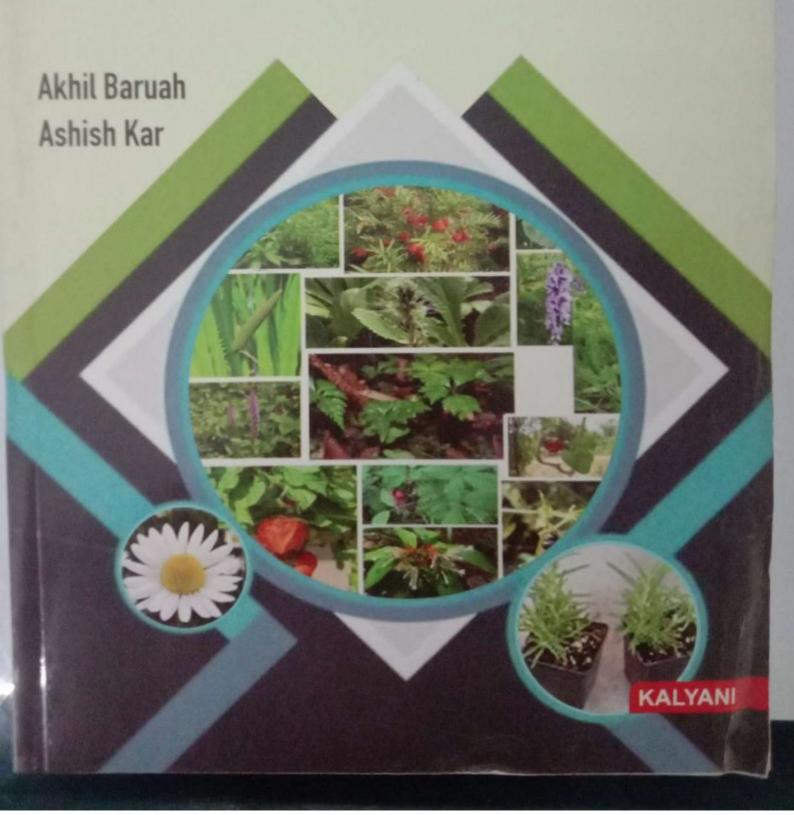
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Text Book of ETHNOBOTANY



About the Authors

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TEXTBOOK OF MEDICINAL BOTANY

For B. Sc. Botany Regular (Skill Enhancement) students of Universities of Assam and other Indian Universities



Dr. Akhil Baruah Dr. Ashish Kar





Ashok Book Stall

Jaswanta Road, Panbazar, Guwahati-781001, Assam Email. Id.: absguw@gmail.com ISBN: 978-93-93610-66-9



As per CBCS Syllabus

TEXTBOOK OF BIOFERTILIZERS



Akhil Baruah Tankeswar Nath



KALYANI

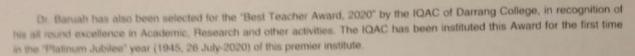
Hons. and Regular) 3rd Semester Students of For B.Sc. Bo (Skill Enhancement mous Colleges of Assam all Universities & Au

About the Authors

Dr. Akhil Baruah, FES, FIAT, FLS (London), FAPT, Awardee of National Scholarship (1989-1990), CSRF-Junior Project Fellowship (1994-1996), CSIR-Senior Research Fellowship (1996-1999) and CSIFF Extended Senior Research Fellowship (1999-2000).

For his outstanding research contribution, he has been awarded "9" Dr. Biraj Mohan Das Memorial Science Award, 2007 in Biological Science.

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Dr. Tankeswar Nath, Awardee of National Fellowship (1987-88), ICAR-NET (1998), ICAR-Senior Research Fellowship (1998-2000), CSIR-Senior Research Fellowship (2001-2003), One year (2004-2005) over sea fellowship (Gifu University, Japan). One month Indo-European over sea fellowship (Italy & Greece) by AdaptNet (Jan-Feb. 2020). He has also eight years (2002-2010) industrial research experiences as a 'Research Scientist' in Jubilant Life Sciences Ltd., Noida.

Dr. Nath is presently working as Assistant Professor in the Department of Agricultural Biotechnology, Assam Agricultural University, Jorhat. He is so far credited with one US patent, one Indian patent, 12 research papers, one Review articles, 5 book chapters, 3 laboratory manuals, 10 seminar presented papers, 2 talks as resource person, 3 Ph. D. students and 12 M.Sc. Students successfully completed postgraduation under his supervision. Presently, he is guiding one Ph.D. students and 4 M.Sc. students.



kalyani delhi@kalyanipublishers.in kalyani_delhi@yahoo.co.in www.kalyanipublishers.co.in

₹ 150.00 \$ 37382 05 ISBN: 978-93-5540-319-3



Text Book of NURSERY & GARDENING

(Skill Enhancement Paper)



For Botany 4th Semester C. Hits of Universities of Assam and Other kill Universities

About the Author



Dr. Ashill Barush, FES, FIAT, FLS (London), FAPT, Awardee of National Scholarship (1989-1990), CSIR-Junior Project February (1994-1990), CSIR-Senior Research Fellowship (1996-1999) and CSIR-Extended Senior Research Fellowship

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As per CBCS Course

TEXTBOOK OF FLORICULTURE

For B. Sc. 4th Semester Botany (Honours and Regular) students of Assam and other Indian Universities





Dr. Akhil Baruah

ABOUT THE & MOR



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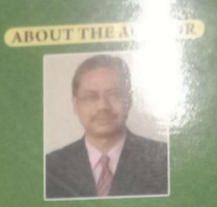


A TEXTBOOK OF MYCOLOGY AND PHYTOPATHOLOGY

For B. Sc. 3nd Semester Botany (Honours) Students of Universities and Autonomous Colleges of Assam and other Indian Universities



Dr. Akhil Baruah



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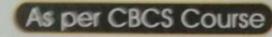
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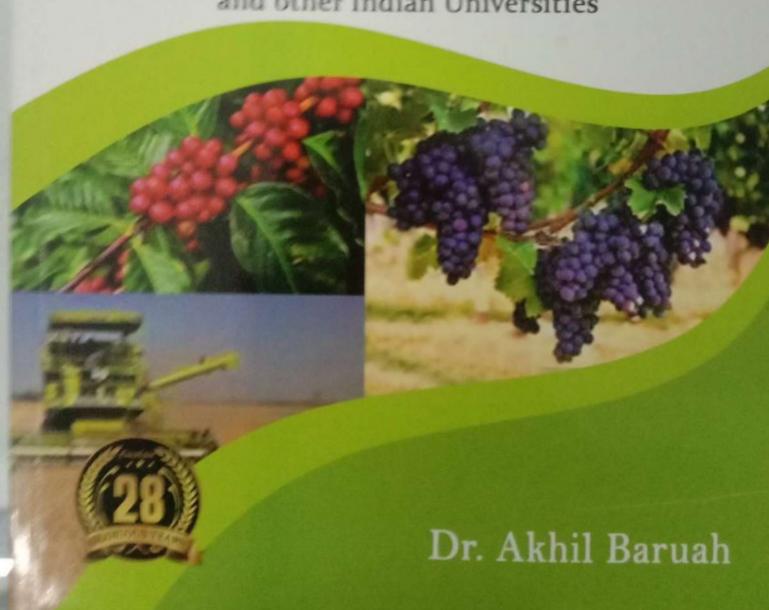




Horticultural Practices and Post-Harvest Technology

(DSE PAPER)

For B. Sc. Botany 5th & 6th Semester students of Universities and Autonomous Colleges of Assam and other Indian Universities





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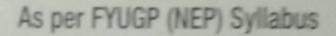
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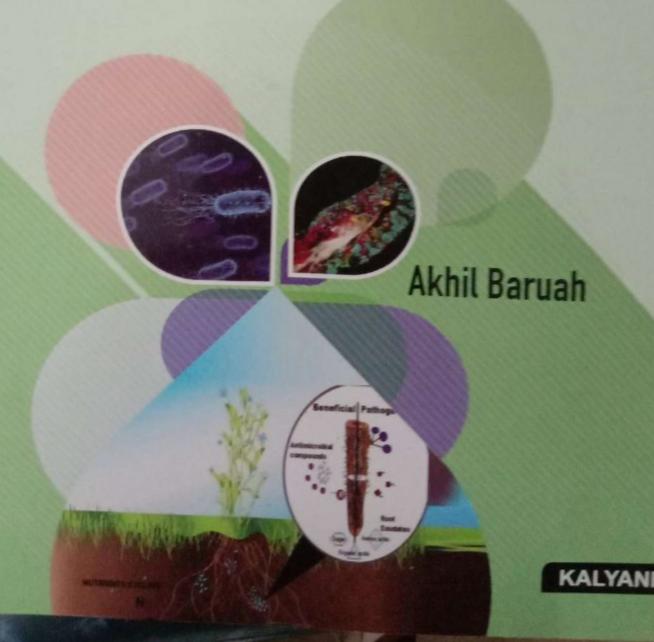


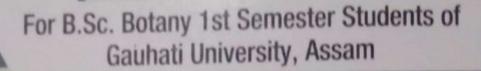


TEXTBOOK OF

PLANT AND MICROBIAL DIVERSITY

(Major/Core and Minor course/paper)





About the Author

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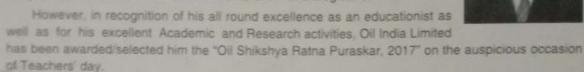
PLANT SYSTEMATICS

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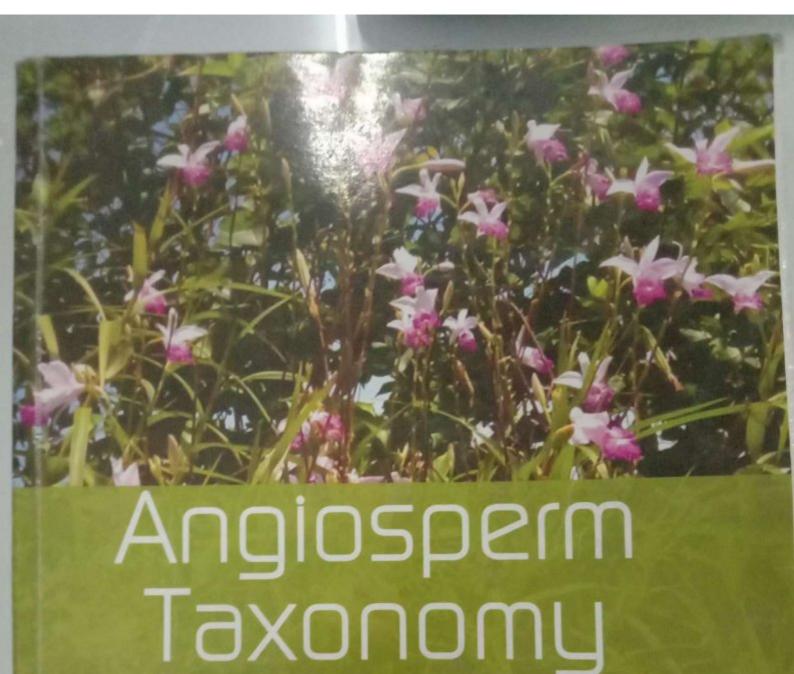
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For PG Students



Dr. Akhil Baruah

About medisulhor



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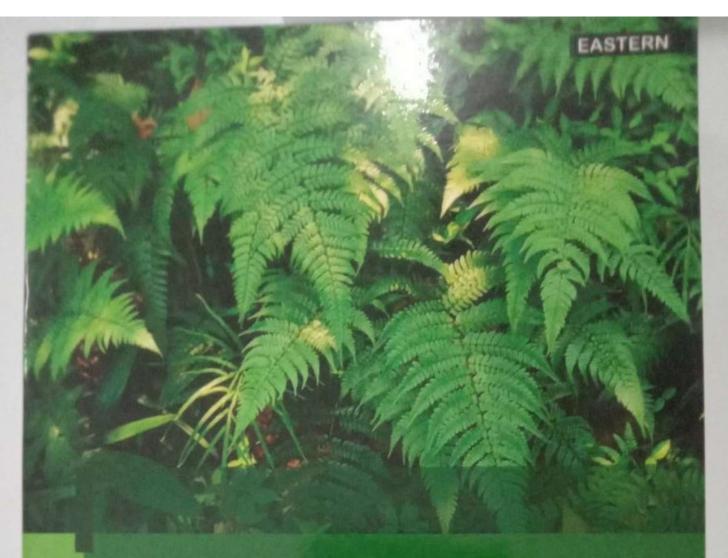
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Cryptogames

Algae, Fungi, Lichens, Bryophytes and Pteridophytes

(For Under Graduate and Post Graduate Students)

Akhil Baruah



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For Four Year Undergraduate Programme (FYUGP)

Conservation and Cultivation of Orchids

As per NEP

(SKILL ENHANCEMENT COURSE/PAPER)

For B. Sc. Botany 2nd Semester students of Dibrugarh University and Autonomous Colleges of Assam





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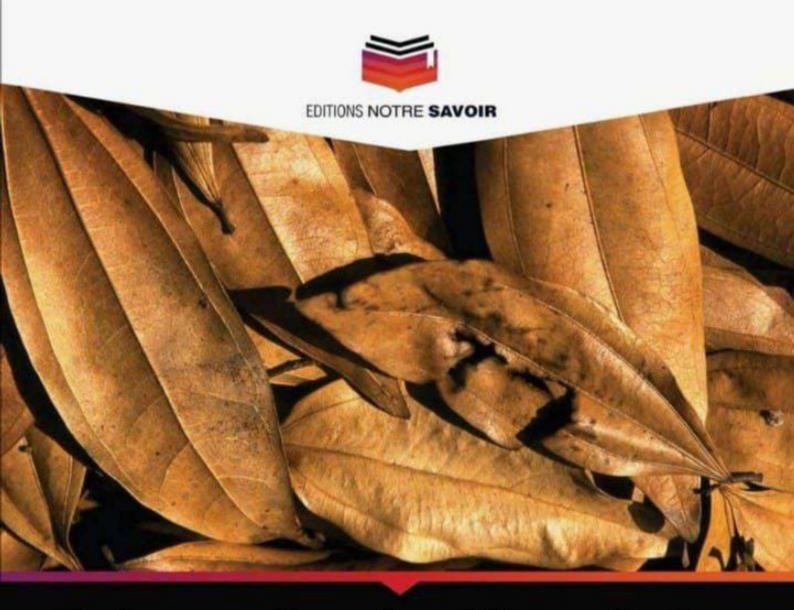
Designed by CON





A Textbook of Conservation and Cultivation of Orchids

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Tejpat - les feuilles de la baie d'Indian

Taxonomie et diversité des ressources en tejpat, potentiel industriel des huiles essentielles, mesures de conservation

Tejpat - les feuilles de la baie d'Indian

Le tejpat est une sorte d'épice feuillue obtenue à partir d'un certain nombre de Cinnamomum spp. dont C. tamala est la "véritable source de commerce". Le Shillong du NE IND est le principal marché du tejpat, d'où il est transporté vers d'autres régions du pays/à l'étranger. Le Cinnamomum a un centre de diversité dans l'Himalaya oriental et les régions voisines du NE IND. De vastes travaux de recherche et de développement sur le tejpat sont en cours ou terminés dans le NE IND et dans d'autres régions du monde. Mais aucune compilation de ces travaux sous la forme d'une monographie n'est disponible à ce jour. Vu l'importance et le potentiel commercial de Tejpat, un livre intitulé Tejpat-the Indian Bay Leaves est maintenant à votre disposition. Ce livre rassemble des informations sur Tejpat qui sont actuellement dispersées dans un certain nombre de revues. Le contenu de base de ce livre est le suivant : Taxonomie, caractères microscopiques et huiles essentielles, conservation, aspects utiles et autres des espèces de Cinnamomum utilisées comme Tejpat. Ce livre sera utile aux institutions de recherche et d'enseignement, aux diverses industries, à l'agriculture et aux domaines connexes, ainsi qu'aux exportateurs, aux transformateurs, aux planteurs et à tous ceux qui s'intéressent aux plantes aromatiques et épicées.



Lauréat Akhil Baruah du CSIR-New Delhi Senior/Extended- Senior Research Fellowships lauréat du Dr. B.M. Das Memorial Science Award en sciences biologiques. Professeur principal Darrang College, Tezpur botanique, (Université Gauhati, IND). Il est l'auteur de 116 documents de recherche, 120 articles scientifiques et 4 livres et a déposé un brevet.









Akhil Baruah

Tejpat - die indischen Lorbeerblätter

Taxonomie & Diversität der Tejpat-Ressourcen, Industrielles Potenzial ätherischer Öle, Erhaltungsmassnahmen

Tejpat - die indischen Lorbeerblätter

Tejpat ist eine Art Blattgewürz, das aus einer Reihe von Cinnamomum spp. gewonnen wird, von denen C. tamala die "echte Quelle des Handels" ist. Shillong von NE IND ist der Hauptmarkt für Tejpat, von wo aus es in andere Teile des Landes/aus dem Ausland transportiert wird. Die Cinnamomum hat ein Zentrum der Vielfalt im östlichen Himalaya und den angrenzenden Regionen der NE IND. Umfangreiche F&E-Arbeiten zu Tejpat werden in Nordost-Indien und auch in anderen Teilen der Bisher abgeschlossen/fortgeführt. noch ist jedoch keine einzige Zusammenstellung dieser Werke in Form einer Monografie verfügbar. In Anbetracht der Bedeutung und des Marktpotenzials von Tejpat liegt nun ein Buch Tejpat - Die indischen Lorbeerblätter in Ihrer Hand. Dieses Buch fasst Informationen über Tejpat zusammen, die derzeit in einer Reihe von Zeitschriften verstreut sind. Die grundlegenden Inhalte dieses Buches sind -Taxonomie, mikroskopische und ätherische Ölzeichen, Konservierung, nützliche und andere Aspekte der als Tejpat verwendeten Cinnamomum-Arten. Dieses Buch ist nützlich für Forschungs- und akademische Institutionen, verschiedene Industriezweige, die Landwirtschaft und verwandte Bereiche sowie für Exporteure, Verarbeiter, Pflanzer und alle, die sich für Aroma- und Gewürzpflanzen interessieren.



Akhil Baruah: Preisträger des CSIR-New Delhi Senior/Extended- Senior Research Fellowships & Empfänger des Dr. B.M. Das Memorial Science Award in Biological Science. A Sr. Asst. Prof. für Botanik, Darrang College, Tezpur (Gauhati Univ., IND). Er ist Autor von 116 Forschungsarbeiten, 120 wissenschaftlichen Artikeln und 4 Büchern und ist mit 1 Patent ausgezeichnet.







Tejpat - le foglie della baia indiana

Tassonomia e diversità delle risorse Tejpat, potenziale industriale degli oli essenziali, misure di conservazione

Tejpat - le foglie della baia indiana

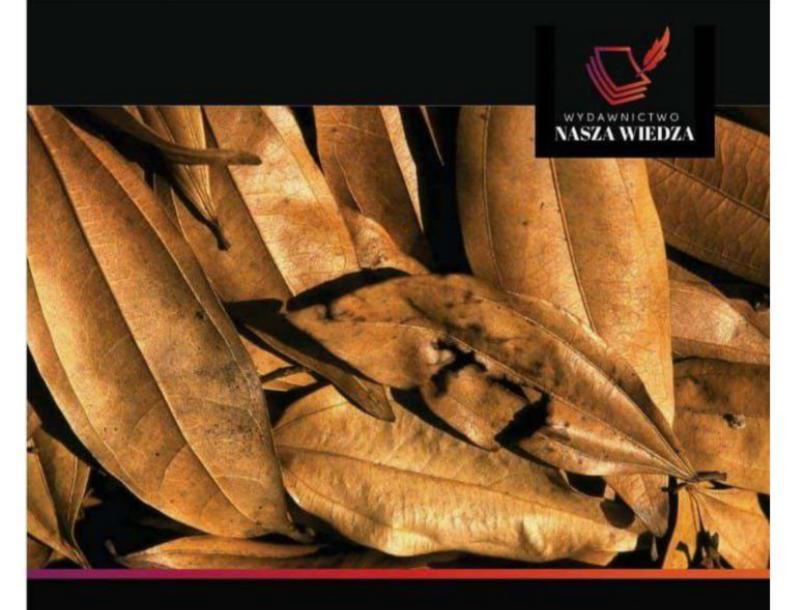
Il tejpat è una specie di spezia a foglia ottenuta da una serie di Cinnamomum spp. di cui C. tamala è la "vera fonte di commercio". La Shillong di NE IND è il principale mercato del tejpat da dove viene trasportato in altre parti del paese/all'estero. Il Cinnamomum ha un centro di diversità nell'Himalaya orientale e nelle regioni limitrofe del NE IND. Ampi lavori di ricerca e sviluppo su Tejpat sono completati e sono in corso nel NE IND e anche in altre parti del mondo. Ma finora non è disponibile una sola raccolta di queste opere sotto forma di monografia. Considerando l'importanza e le potenzialità di mercato di Tejpat, un libro Tejpat-the Indian Bay Leaves è ora con la vostra mano. Questo libro raccoglie informazioni su Tejpat che sono attualmente sparse in diverse riviste. I contenuti di base di questo libro sono: Tassonomia, Personaggi microscopici e oli essenziali, Conservazione, Utile e altri aspetti delle specie di Cinnamomum usate come Tejpat. Questo libro sarà utile alle istituzioni di ricerca e accademiche, alle varie industrie, all'agricoltura e ai settori affini, così come agli esportatori, ai trasformatori, ai piantatori e a tutti coloro che sono interessati alle piante aromatiche e alle spezie.



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Tejpat - indyjskie Liście Zatoki

Taksonomia i różnorodność zasobów Tejpatu, potencjał przemysłowy olejów bazowych, środki ochronne

Akhil Baruah

Tejpat - indyjskie Liście Zatoki

Tejpat jest rodzajem przyprawy liściastej otrzymywanej z wielu gatunków Cinnamomum spp., z których C. tamala jest "prawdziwym źródłem handlu". Shillong of NE IND jest głównym rynkiem tego patentu, z którego jest on transportowany do innych części kraju/drogi. Cinnamomum posiada centrum różnorodności we Wschodnich Himalajach i regionach przyległych do NE IND. Szeroko zakrojone prace badawczo-rozwojowe na terenie Tejpatu są zakończone/realizowane w NE IND i w innych częściach świata. Jednak do tej pory nie jest dostępna ani jedna kompilacja tych prac w formie monografii. Biorac pod uwagę znaczenie i potencjał rynkowy Tejpat, książka Tejpat-the Indian Bay Leaves jest teraz w zasięgu ręki. Książka ta gromadzi informacje o Tejpacie, które są obecnie rozproszone w wielu czasopismach. Podstawowe treści tej książki to - Taksonomia, Mikroskopijne i eteryczne czakry olejowe, Przydatne inne aspekty gatunków Cinnamomum wykorzystywanych jako Tejpat. Książka ta będzie przydatna dla instytucji badawczych i akademickich, różnych gałęzi przemysłu, rolnictwa i dziedzin pokrewnych, jak również dla eksporterów, przetwórców, plantatorów i wszystkich tych, którzy są zainteresowani roślinami Aromatic & Spice.



Akhil Baruah: Awardee of CSIR-New Delhi Senior/Extended- Senior Research Fellowships & Recipient of Dr. B.M. Das Memorial Science Award in Biological Science. A Sr. Asst. Prof. w Botani, Darrang College, Tezpur (Gauhati Univ., IND). Jest autorem 116 prac naukowych, 120 artykułów naukowych i 4 książek oraz 1 patentu.







PLANT PHYSIOLOGY AND METABOLISM

For Botany 3rd Semester Regular Core and Honours Generic of Universities of Assam Chapter/ All Indian Edition



Dr. Akhil Baruah Dr. Jnandabhiram Chutia



Dr. Akhil Baruah, FES, FIAT, FLS (London), FAPT, Awardee of National Scholarship (1989-1990), CSIR-Junior P. oject Fellowship (1994-1996), CSIR-Senior Research Fellowship (1996-1999) and CSIR-Extended Senior Research Fellowship (1999-2000).

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He vever, in recognition of his all round excellence as an educationist as well as for his excellent Academic and Research activities, Oil India Limited has been awarded/selected him the "Oil Shikshya Ratna Puraskar, 2 '7" on the auspicious occasion of Teachers' day.

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He was working on Cinnamomum species of Northeast India for his doctoral thesis. He undertook his doctoral work at Regional Research Laboratory (CSIR), (Presently known as North East Institute of Science & Technology), Jorhat during 1994-2000. Since then he is actively engaged to explore the Cinnamomum resources of NE India along with other R & D works and academic activities.

Dr Baruah is presently serving as Associate Professor & Former HoD, in the P.G. Department of Botany, Darrang College, Tezpur under Gauhati University, Guwahati, Assam. He is so far credited with 161(105+54) research papers/book chapters, 32 Books (26 sole/first authored + 6 Edited), 34 seminar presented papers, delivered 11 talks as resource person/speaker, more than 225 popular science articles, credited with 1 patent, guided 1 M. Phil. student andmany P.G. students for their M. Sc. Dissertations, discovered 4 new aromatic plant taxa, 3 new types of stomata, and many promising aromatic & spice plant resources for natural essential oils of fragrance, flavour & pharmaceutical values from Northeast India.

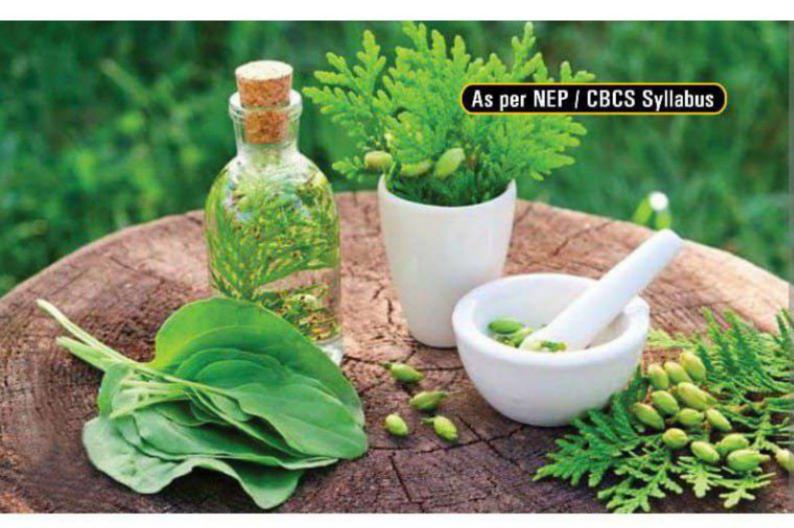
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In recent years, his research activities are concentrated on the evaluation of the diversity and commercial potentials of New Aromatic, Spice & Medicinal plants, ethnobotany of traditional rice-beer, allelopathic effects of aromatic, spice and medicinal plants on seed germination, and Orchid anatomy.







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However, Assemiya Club - Tezput, on its' 1086 Foundation Day on 15 April' 2023, facilitated him for his

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Dr. Ashish Kar is presently serving as Fellow Scientist in The Energy and Resources Institute (TERI), Northeastern Regional Centre, Guwahati. He is so far credited with 92 research papers/ book chapters, 3 books, 5 scientific articles, 1 patent and delivered 9 talks as resource person.

He has contributed a book chapter in the volume 8 (India) of the prestigious book "Medicinal and Aromatic Plants of the World" published by the Springer Nature Switzerland AG

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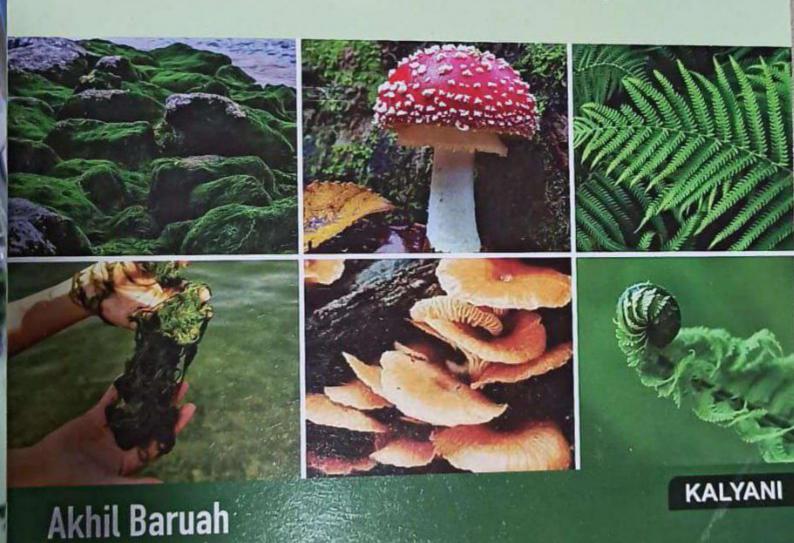
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(Major/Core and Minor Course/Paper)



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ABOUT THE AUTHOR

Dr. Akhil Baruah, FES, FIAT, FLS (London), FAPT, Awardee of National Scholarship (1989-1990).
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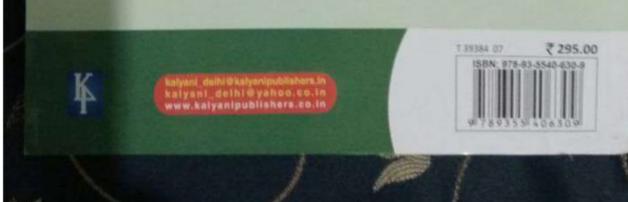
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However, Asiomiya Chib. Tezpur on its' 108° Foundation Day on 15 April' 2023, recently facilitated him for his overall excellence in Academic, Research and other activities.

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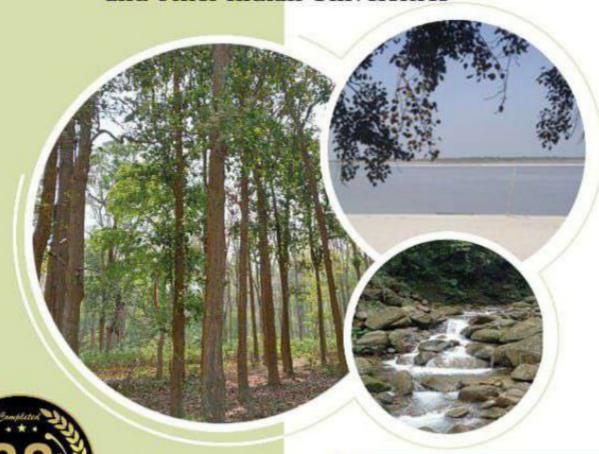
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Dr. Akhil Baruah Dr. Ashish Kar



- About the Authors



Dr. Akhil Baruah, FES, FIAT, FLS (London), FAPT, Awardes of National 3/16 (1989) 1990), CSIR Junior Project Fellowship (1994-1996), CSIR Sensor Research Fellowship (1999-2000).

For his outstanding research contribution, he has been awarded "Vita D. Wohan. Das Memorial Science Award, 2007" in Biological Science.

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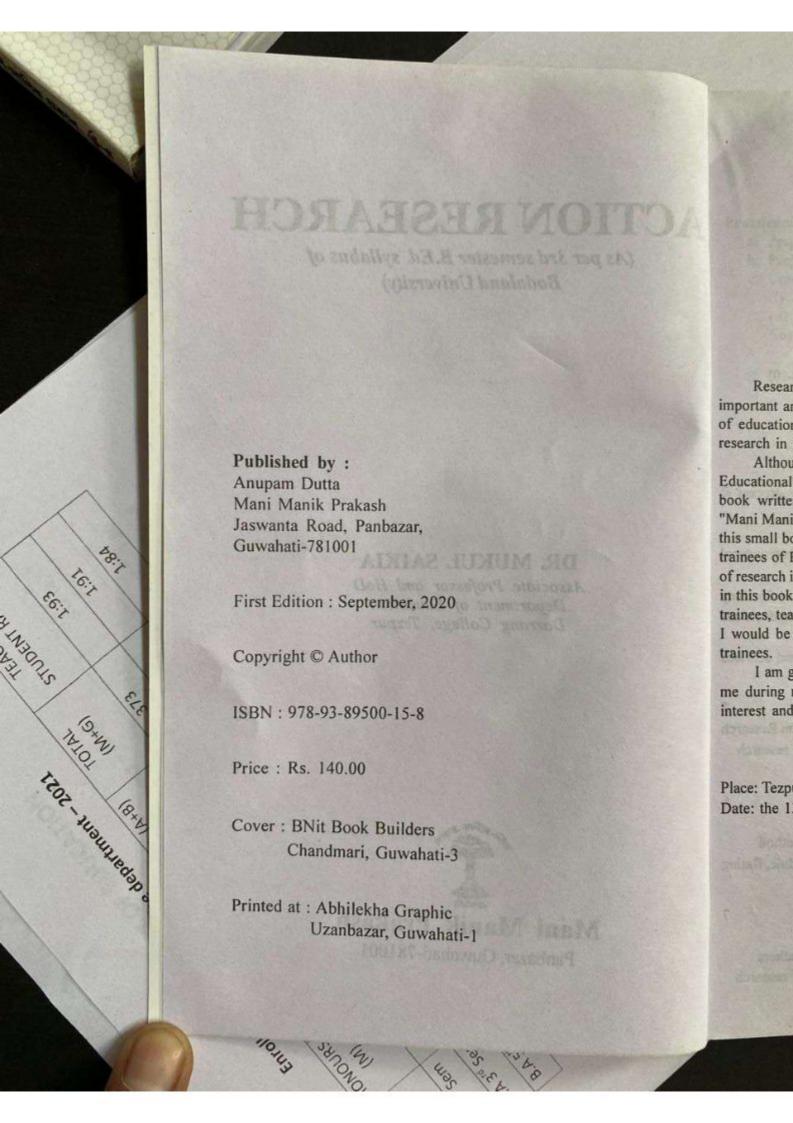
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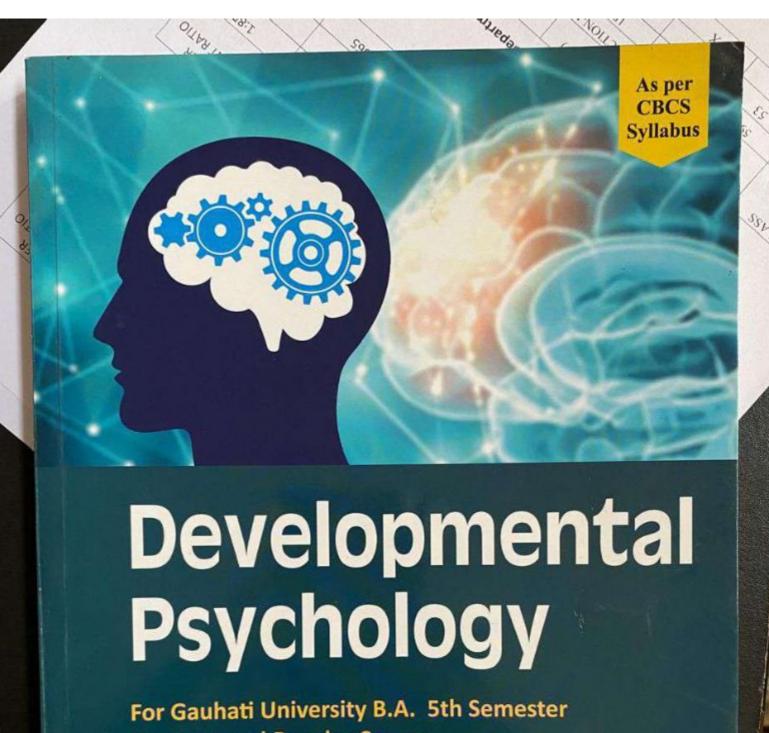
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B.A. 2nd Semester (Regular) CBCS Course under Gauhati University





Dr. Mukul Saikia

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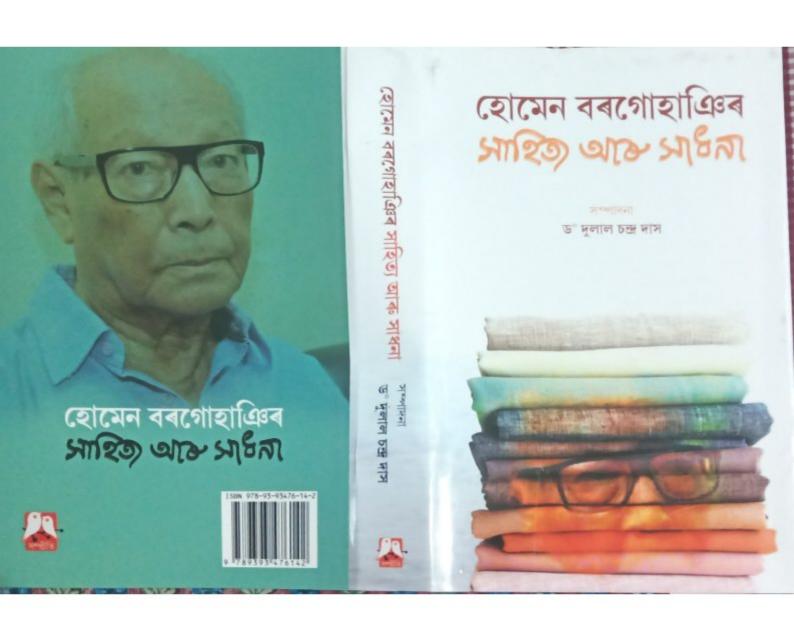
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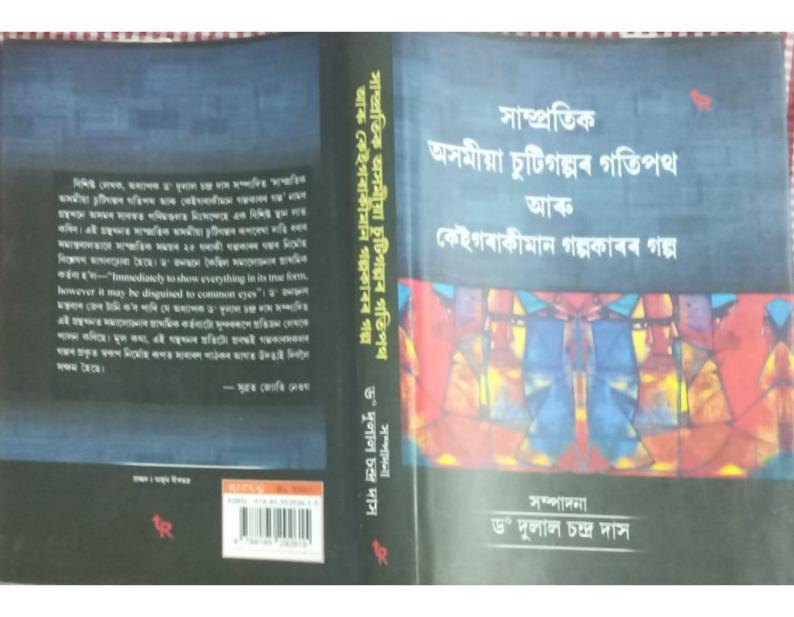
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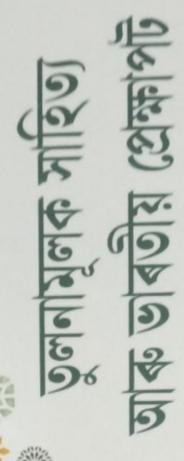
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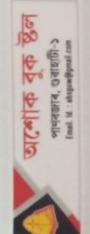


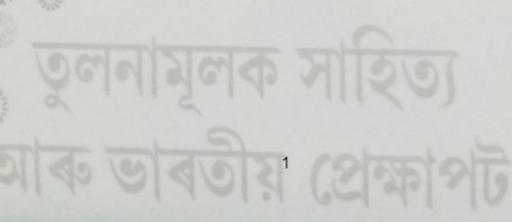


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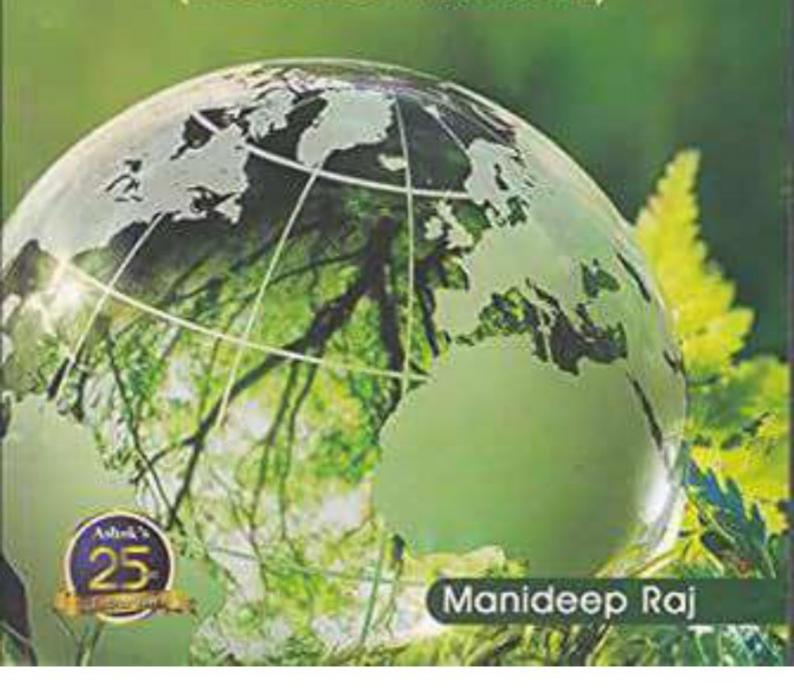


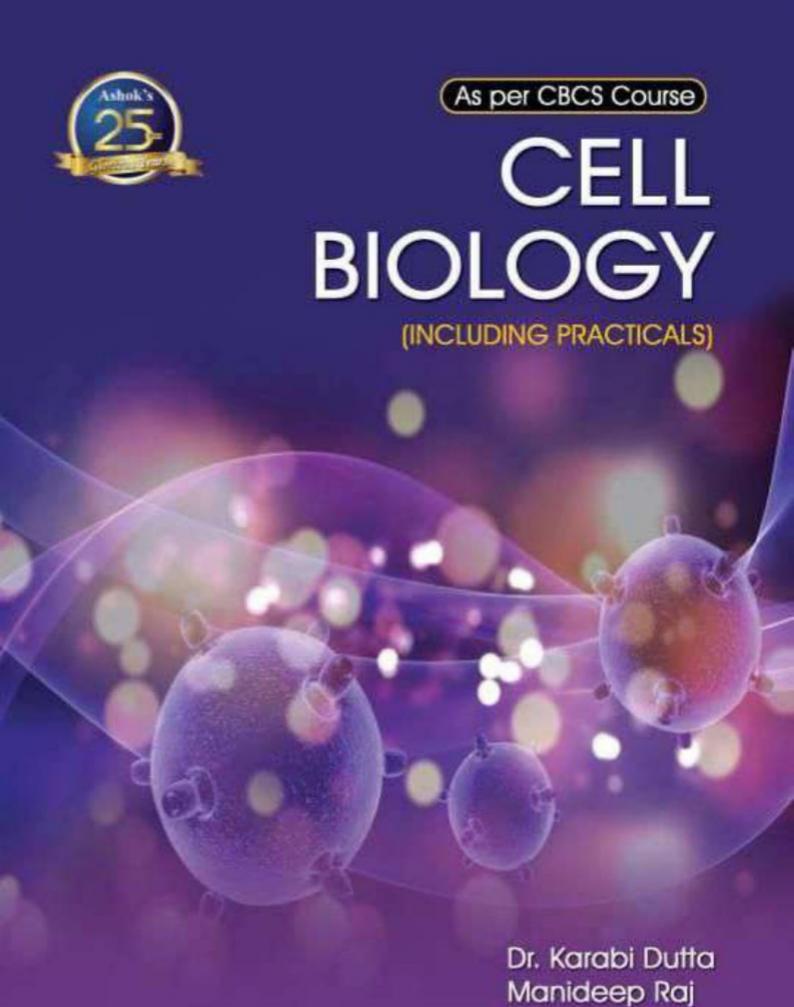




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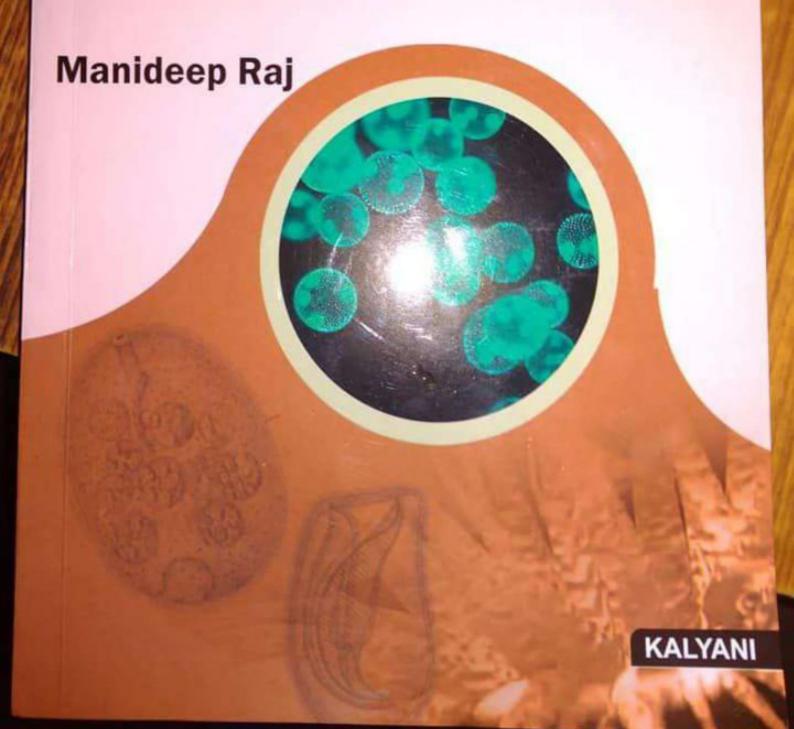
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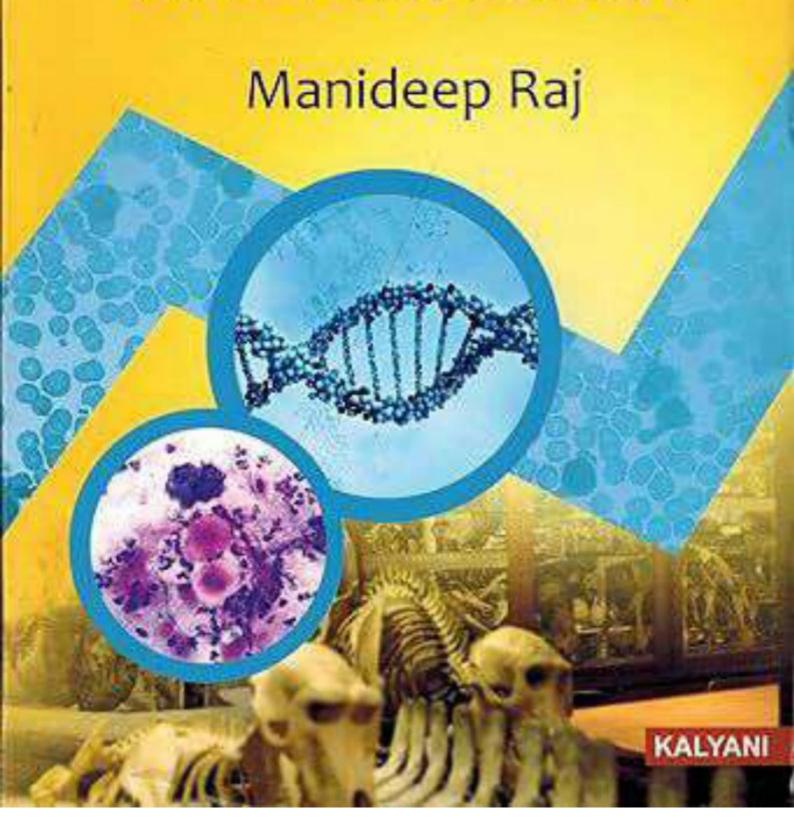
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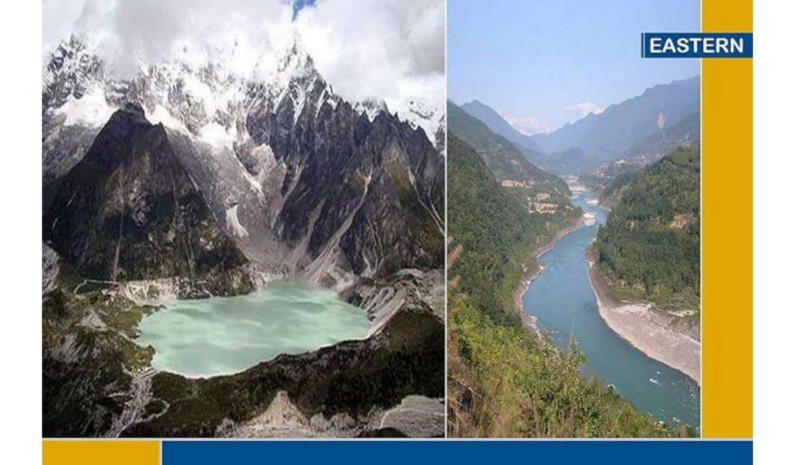
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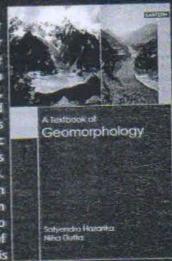


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line is taken as guidance as mentioned in the reference section. Various information are tried to be added with necessary tables and diagrams so that the beginners of the subject can get a grasp of the subject and its specific informations in easy & simple way.

The Authors

Dr. Satyendra Hazarika (Ph.D, SLET-2003, DIP-TD) is working as a Assistant Professor (L-II) at Darrang College, Tezpur. The Arts Graduate Topper of Dibrugarh University (1993), Dr. Hazarika is also the recipient of Best Geography Graduate (1993) and Best Geography Post-graduate (1996-97) award of North-east India Geographical Society. He has published a number of research paper in journal of National repute, edited books and participated in several national and international seminars over the years. His field of specialization was Fluvial Geomorphology and did his Ph.D work in Flood vulnerbility study of Kamrup Metropolitan District. (satyendrahazarika@rediffmail.com, m-94352-45858)

Niha Dutta, M.A. 2-Ed, NET, is working as a Assistant Professor in contractual basis at Darrang College, Tezpur. Her field of interest includes Regional Planning, Social and Political Geography, Geomorphology and Population Geography. She has attended a number of national and international seminars and published a few research papers. Recently she has published a textbook titled 'Manay Bhugol' for the CBCS B.A./B.sc. 1st semester of both Dibrugarh and Gauhati university students. (nihadutta370@gmail.com, m-9101973153)





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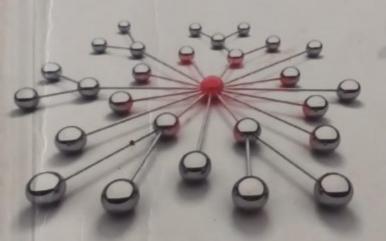
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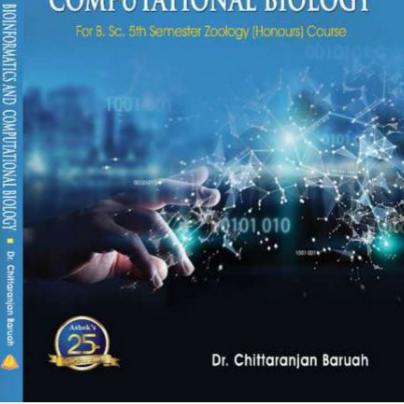
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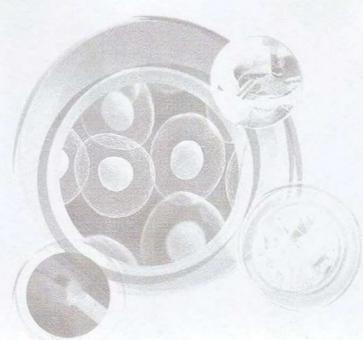
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ABOUT THE EDITORS



Dr. Chittaranjan Baruah, M.Sc., Ph.D. in *Zoology, Advanced Postgraduate Diploma in Bioinformatics (NIELIT BI-A Level)*, member of International Union for Conservation of Nature (IUCN), Founder & Editor of Asian Journal of Conservation Biology (ISSN 2278-7666, Scopus-indexed, UGC-CARE Journal), Editor of Northeast Journal of Contemporary Research (NeJCR), Awardee of Conservation Leadership Program (CLP) award (2010) jointly awarded by BirdLife International, Fauna & Flora International (FFI) and Wildlife Conservation Society (WCS). Dr. Baruah was an Asian Scholar of ASPin-situCC based at Wetlands Institute, New Jersey, USA for six months (2010).

Dr. Baruah is presently serving as Assistant Professor (Sr. G) in the Postgraduate Department of Zoology, Darrang College, Tezpur (under Gauhati University), Assam, India. Prior to the present appointment, he had served as Research Associate in Bioinformatics at the DBT-BIF Center, Gauhati University for a period of 3 years. Dr. Baruah has nine years of undergraduate and postgraduate teaching and research experience. Dr. Baruah is so far credited with more than 45 research papers, 7 books, 13 book chapters, 35 seminar presented papers, delivered more than 30 talks in Bioinformatics as Visiting Professor in North Lakhimpur College (Autonomous) and as Resource person in the higher learning institutions of northeast India including Gauhati University, Assam Agriculture University, Bodoland University, CSIR-NEIST, Cotton University, USTM (Meghalaya), St. Anthonys's College (Shillong), Mangaldai College and Kaliabor College and Dhing College, Assam. He has completed four research projects as Principal Investigator with international funding. He is one of the Recognized Ph.D. Research Guide of Gauhati University, Guwahati. He is the Life member of 10 National & International Professional Bodies, Editorial Board members, Indonesian Journal of Applied Environmental Studies (InJAST) and Reviewer of & leading international Bioinformatics and Molecular Biology journals published by Springer Nature, Elsevier and Taylor and Francis.



Dr. Rabindra Hazarika, M.Sc., Ph.D. in Zoology, B.Ed., is an Assistant Professor in the Department of Zoology at Darrang College, Tezpur, Assam. He earned his M.Sc. in Zoology (Entomology) from Bajali College, Pathsala, Assam (right now Bhattadev University, Bajali, Assam). He received funding from the University Grants Commission, New Delhi to complete his Doctoral Research in Aquatic Entomology at Gauhati University, Assam through the Research Fellowship in Science for Meritorious Students in Science (RFSMS) programme. Dr. Hazarika has been involved in the field of Aquaculture, Aquatic Entomology and Medical Entomology for over 8 years under different research programme supported by National Bureau of Fish Genetic

Resources (ICAR), UGC—SAP (Departmental Research Scheme) and Integrated Disease Surveillance Programme, National Centre for Disease Control, Directorate General of Health Services, Government of India etc. His research activity is well documented in more than 18 research papers published in international and national journals and presentation of research papers in international and national conferences and seminars. He is a writer of number of books (for UG level Students in Zoology) and popular scientific articles. In the year 2012, Dr. Hazarika received financial assistance for participating in International Conference on Biological and Life Sciences (ICBLS 2012) organized by Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEES) held at Singapore from July, 23-24, 2012. Presently, he is a Member of "Entomological Society of America", Life Member of "The Entomological Society of India", Life Member of "Assam Science Society" and "Zoological Society of Assam".

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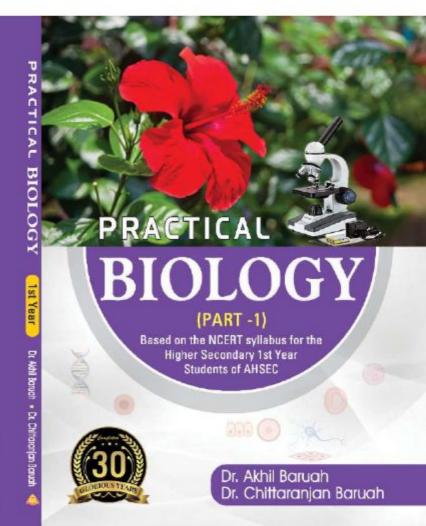
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