

BEST PRACTICES

Practice I:

1. Title of the Practice: *To develop an environment of Research*

2. Goal: With the inspiration of the Principal and other senior teachers the teachers of the college want to make a research environment so that students can see various experiments or surveys and can be motivated in research.

3. Context: The College is in growing stage. The teachers are very much active in research. In spite of constriction of fund from different funding agencies teachers are active enough to make some publications in various reputed journals, books and local dailies.

4. The Practice:

- i) Knowledge sharing and interaction among the teachers is a regular activity.
- ii) Faculty members are engaged themselves in library works as and when time permits.
- iii) Many experiments were done in presence of students.

5. Evidences of Success:

In the last one year, faculty members of this college worked hard to create opportunity to carry out research works. The faculty members of the College carry out different researches which can be evidenced by their publications as given below:

Minor projects -

Sl. No.	Name of P.I.	Department	Funding Agency	Duration	Amount Sanctioned	Status
2.	Dr. Subrata Deb	Physics	NERO-UGC	2016-2018	Rs. 3,10,000/-	On-going (March-2016)

(Letter No. F.5- 345/2015-16/MRP/NERO/1080, dated- 29th March, 2016)

Publications:

Department of Bengali:-

1. Dr.Narayan Bhattacharyya, Rabindranather 'Balaka' Shatabarsher Darpane, Dainik Sambad, ISSN No – 0971-7153, August, 2016
2. Dr. Mousumi Pal, Gramer Meye : Ganachetanar Banipratima, Uttar-Purber Bangla Sahitye Marksiya Darshan : Prasango Tripura, ISSN – 978-93-87513-12-5, Sep`2016
3. Dr. Mousumi Pal, Bangla Uponyase Bratyo Jibon, Bangla Kathasahityer Dersho Bachhor, ISSN-978-93-85713-11-8, Nov`2016

4. Dr. Nivedita Dhar, Bangla Sahitye Marksiya Darshan – Prasango Sudhanwa Debbarmar 'Hachuk Khurio', Uttar-Purber Bangla Sahitye Marksiya Darshan : Prasango Tripura, ISSN – 978-93-87513-12-5, Sep`2016
5. Dr.Nivedita Dhar, Jananeta Nripen Chakraborty, ISBN 978-93-80357-86-7

Department of English:-

Dr. Somali Saha, Assistant Professor

1. Somali Saha, Journey from Silence to Eloquence: Specificities of Gender Patriarchy in a Dalit Woman's Testimonio. Research Journal of English Language & Literature Vol 4, Issue 3, 2016 (July-September) ISSN 2395-2636(P): 2321-3108(E)
2. Somali Saha, Portrayal of 'New Woman' – A Feminist Reading of Tagore's Chandalika and Natir Puja. Research Journal of English Language & Literature Vol 4, Issue 4, 2016 (October-December) ISSN 2395-2636(P): 2321-3108(E)
3. Somali Saha, Role of Translation in Mainstreaming Dalit Literature – An Analysis of Selected Dalit Autobiographies in Translation Research Journal of English Language & Literature Vol 4, Issue 4, 2016 (October-December) ISSN 2395-2636(P): 2321-3108(E)
4. Somali Saha, Chronicling the History of Dalit Consciousness: An Analysis of Urmila Pawar's The Wave of My Life – A Dalit Woman's Memoir. The Criterion: An International Journal in English – a peer-reviewed journal approved by UGC (35829) Vol. 8, Issue 1 (Feb. 2017) on 5th March, 2017. ISSN: 0976-8165

Department of Economics-

Dr. Jayanti Bhattacharjee, Assistant Professor

1. Jayanti Bhattacharjee, Do institutions affect economic growth? An empirical analysis of selected South Asian Countries, Asian Journal of Comparative Politics. Sage Publications. 2016. DOI: 10.01177/2057891116671833

Department of Human Physiology-

Dr. Amitabha Kar, Associate Professor & Sankari Das, Associate Professor

1. Partha Majumder, Amitabha Kar, Sankari Das, Insights about the role of glucocorticoid action in the pathophysiology of the metabolic syndrome, International Journal of Advanced Scientific Research, Volume 1; Issue 4; July 2016; Page No. 68-76, ISSN: 2456-0421; Impact Factor: RJIF 5.32, www.allscientificjournal.com
2. Partha Majumder, Amitabha Kar, Sankari Das, Comparisons between intragastric and small intestinal delivery of corresponding nutrition in the critically ill: a comprehensive approach and meta-analysis, International Journal of Advanced Scientific Research Volume 1; Issue 4; July 2016; Page No. 77-83, ISSN: 2456-0421; Impact Factor: RJIF 5.32. www.allscientificjournal.com

3. Partha Majumder, Amitabha Kar, Sankari Das, A glimpse of fructose, insulin resistance, and metabolic dyslipidemia, International Journal of Advanced Science and Research, Volume 1; Issue 7; July 2016; Page No. 37-46, ISSN: 2455-4227, Impact Factor: RJIF 5.12. www.allsciencejournal.com
4. Partha Majumder, Amitabha Kar, Sankari Das, A comprehensive biofeedback of beta-hydroxy-beta-methylbutyrate (HMB) on exercise physiology and body composition across varying levels of age, sex, and training experience, International Journal of Advanced Science and Research, Volume 1; Issue 7; July 2016; Page No. 23-36, ISSN: 2455-4227, Impact Factor: RJIF 5.12. www.allsciencejournal.com
5. Veera Talukdar, Amitabha Kar, Partha Majumder, A Glimpse on Chronic lymphocytic leukemia and its insights of molecular heterogeneity. International Journal of Applied Research, ISSN :2394-7500, Vol:2, Issue:10, September, 2016, Page: 643-652.
6. Sankari Das and Dr. Amitabha Kar, An insight of consequences of body weight on altered expression of nuclear receptors and interrelation of cyclooxygenase-2 in human colorectal cancers, International Journal of Applied Research (IJAR), Vol. 3, issue 4, 2017, Page no. 577-584, ISSN Print: 2394-7500, ISSN Online: 2394-5869, Impact Factor: 5.2
7. Dr. Amitabha Kar, A topological Model of moderate exercise and chronic stress that produces counter active effects on different areas of the brain, International Journal of Applied Research (IJAR). Vol. 3, issue 4, 2017, ISSN Print: 2394-7500. ISSN Online: 2394-5869, Impact Factor: 5.2. www.allresearchjournal.com

Department of Environmental Science –

Mr. Bal Krishan Choudhary, Assistant Professor

1. Koushik Majumdar; **Bal Krishan Choudhary**; Badal Kumar Datta¹, Changes of woody species diversity, horizontal and vertical distribution of stems across interior to outside within a primate rich habitat of Northeast India. Journal of Forestry Research DOI 10.1007/s11676-016-0231-4- Springer. Online.
2. Bal Krishan Choudhary*, Koushik Majumdar, Badal Kumar Datta, Applications of Remote Sensing and GIS in Conservation of Resources. Remote Sensing & GIS Applications in Environmental Sciences 6 (38), 11, 2017
3. Balkrishan Choudhary; Koushik Majumder and B K Datta, Carbon Sequestration Potential and Edaphic Properties Along the Plantation Age of Rubber in Tripura, Northeastern India. Current World Environment 11(3) October 2016, ISSN: 0973-4929, Online ISSN: 2320-8031
4. Koushik Majumder; Balkrishan Choudhary and B K Datta, Aboveground Woody Biomass, Carbon Stocks Potential in Selected Tropical Forest Patches of Tripura, Northeast India. Open Journal of Ecology 6(10):598-612 · September 2016, DOI: 10.4236/oje.2016.610057

5. Balkrishan Choudhary; Koushik Majumder and B K Datta, Effects of Land Use on the Soil Organic Carbon Storage Potentiality and Edaphic Factors in Tripura, Northeast India. American Journal of Climate Change 5(5):417-429 · September 2016, DOI: 10.4236/ajcc.2016.53031

Department of Physics –

Sri Rahul Bhattacharjee, Assistant Professor

1. "FP-LAPW methodology based theoretical investigation of structural, electronic and optical properties of $Mg_xPb_{1-x}S$, $Mg_xPb_{1-x}Se$ and $Mg_xPb_{1-x}Te$ ternary alloys" Surya Chattopadhyaya, **Rahul Bhattacharjee**, Journal of Physics and Chemistry of Solids (ELSEVIER), 100 (2017) 57-70.
2. "Theoretical study of structural, electronic and optical properties of $Ba_xPb_{1-x}S$, $Ba_xPb_{1-x}Se$ and $Ba_xPb_{1-x}Te$ ternary alloys using FP-LAPW approach" Surya Chattopadhyaya, **Rahul Bhattacharjee** Journal of Alloys and Compounds (ELSEVIER), 694 (2017) 1348-1364.
3. "Theoretical study of structural, electronic and optical properties of $Ba_xPb_{1-x}S$, $Ba_xPb_{1-x}Se$ and $Ba_xPb_{1-x}Te$ ternary alloys using FP-LAPW approach" Surya Chattopadhyaya, **Rahul Bhattacharjee**, Journal of Alloys and Compounds (ELSEVIER), 698 (2017) 868-882.

Dr. Subrata Deb, Assistant Professor

1. Stability of J-aggregated species in an indocarbocyanine dye in Langmuir–Blodgett Films Pintu Debnath, Santanu Chakraborty, **Subrata Deb**, Jayasree Nath, Bapi Dey, D. Bhattacharjee, Syed Arshad Hussain, Journal of Luminescence, Vol 179, (287-296) 2017.

Book: Proceedings of National Conference on Recent Trends of Research in Physics

(NCRTRP-2015), "Status of research in Physics in North-East India", edited by Dr. Subrata Deb.

Smt. Soma Banik, Assistant Professor

1. pH induced interaction of DPPC with a fluorescent dye in Langmuir and Langmuir Blodgett (LB) films. **Soma Banik**, Mitu Saha, S.A.Hussain, D. Bhattacharjee, **Molecular Crystals and Liquid Crystals, 2017, vol 643, page 255-265.**

Department of Chemistry –

Dr. Samhita Bhaumik, Assistant Professor

1. "Characterization of manganese (IV) complexes derived from N and O donor Schiff base ligand by spectroscopic and electrochemical studies", Dr. Samhita Bhaumik ISBN: 978-93-81631-38-6

Dr. Amitabha Saha, Assistant Professor

1. "Metachromatic Interactions of sulphated Orange (*Citrus sinensis*) peel polysaccharide with cationic Dyes", Dr. Amitabha Saha , ISBN: 978-93-81631-38-6

6. Problems encountered and resources required:

- Insufficient e-resources (online journals)
- Lack of advanced level equipment's for some departments
- Inadequate supporting staff.

Practice II:

1. Title of the Practice: *To Undertake Student Welfare Measures*

2. Goal: The goal of Women's College is not only to motivate the students in pursuing their career but also to create awareness among them regarding health and hygiene, the environmental issues and the fast changing world so that they can grow up as healthy and competent women.

3. Context: The College is a grown-up institution covering the voyage of 53 golden years and is playing a pivotal role in disseminating higher education among the women of the state. But under the context of the competitive and challenging world, the college feels the responsibility to come up with more welfare measures for the students so that they can bloom with all their inner and hidden capabilities.

4. The Practice:

- i) Organizing invited talks, workshops, lectures; awareness programs have become regular activities of the college.
- ii) Faculties, NCC and NSS Units, have taken proper initiatives in organizing such programs.

5. Evidences of Success:

In the last one year, faculty members in association with other organizations arranged a number of programs which are listed below:

- i) The students of NSS unit celebrated Vanamahotsav on 5th June, 2016.
- ii) Road Safety Week was observed, the students attended National Youth Day (Rally), National Girl Child Day (Rally and Seminar).
- iii) A seminar was organised on International Women's Day.
- iv) In the NSS Special Camp arranged in the college, the students got the opportunity to participate in awareness programme on AIDS/HIV(03-02-2017), Craft Training, Seminar on

Life Skill, Seminar on Disaster Management, Career Counselling session, Swachhh Bharat Abhiyan.

- v) Blood Donation Camp (08-02-2017) was also organised by the NSS Unit of the college.
- vi) Science Forum, Women's College, celebrated National Science Day 2017 with great enthusiasm on 28th February 2017.
- vii) Science Forum, Women's College, organized a Popular Talk on "Telegram to Internet: Evolution to Revolution" on 29th September 2016. Former Scientist of IIS, Bangalore, delivered his valuable talk to enrich the students.

6. Problems encountered and resources required:

- . Constraints of fund in organizing such events
- . Inadequate number of faculties and supporting staff