

INTERNAL QUALITY ASSURANCE CELL (IQAC)
S.B.M.S. COLLEGE, Sualkuchi
(SUALKUCHI BUDRAM MADHAB SATRADHIKAR COLLEGE)

An Institution of Higher Education Affiliated to Gauhati University, Provincialized by the Govt. of Assam, recognized under Section 2(f) & 12(B) of the UGC Act, 1956 and accredited with Grade B (Cycle II) by NAAC

Co-ordinator
IQAC
Phone : 0361-2830030(O)



P.O.: Sualkuchi
Dist: Kamrup (Assam)
Pin : 781103

Ref:.....

Date:.....

Best Practice--1

Introduction of STAR COLLEGE SCHEME for the Students of Science Stream

The SBMS College is one of the rural based institutions receiving DBT sponsored star college scheme. DBT has launched this scheme to support and assist colleges offering undergraduate courses to improve science teaching. It encompasses to focus on enhancing qualitative skills of teachers by organising training, improved curriculum, and focussing on practical training to students and to provide them to access various infrastructure facilities such as laboratory, library, teaching aids, and so on.

Objectives:

The basic objectives of the Programme are as the following:

- (a) To strengthen the physical infrastructure for achieving excellence in teaching-learning situation
- (b) To promote networking and strengthen ties with neighbouring institutions
- (c) To increase capabilities of core instrumentation resources by procuring new equipments and upgrading existing facilities

Practice:

Situated in a rural backdrop, the Science Stream of SBMS College had been catering the needs of science students of greater Sualkuchi area since 1989 with limited resources and infrastructure. In 2013, the Science Stream got provincialised and at subsequent stage became equipped to be awarded DBT sponsored star college scheme in 2017. The beneficiary departments are: Botany, Zoology, Physics, Chemistry and Computer Science. The Science Stream is trying to maintain its level for preparing a platform for our science students. It is hoped that with the provision of availing facilities for science students of the college under Star college scheme in respect of laboratories, libraries and other scientific equipments, more students will take up Science as a career which is very vital for the promotion of science education in rural areas like us.

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The scheme attributes a positive impact amongst the teaching-learning ambience of the institute. The teachers are enthusiastic and as a result, the students being motivated to equip themselves with qualitative learning. It is a continuous process.

List Of Projects undertaken by Students for the year 2017-2018
Department of Zoology

Sl no	Topic of the project	Guided by	Student Name	Year
1	“A survey on fish Diversity With special reference to the indigenous fishes in Kalitakuchi area of Hajo, Kamrup District”	Ms Bandana Deka	Sri Dolly Kumari	2017--2018
2	“ A Survey on Soil Insects in Bongshar area of Kamrup (R) District”	Ms Bandana Deka	Miss Numi Sultana	2017--2018
3	“ A Project on Avian Diversity in Garjan Beel, Hajo Circle, Assam”	Dr. Sikha Rani Kalita	Sri Mridul Malakar	2017--2018
4	“Study of Avian Diversity of Singimari”	Dr. Sikha Rani Kalita	Miss Manisha Begum	2017--2018
5	“A Project on Ichthyo faunal Diversity of Borkua Beel, Barijani Village, Kamrup District, Assam”	Dr. Sikha Rani Kalita	Miss Resmin Sultana	2017--2018
6	“A Project on Fish Diversity of the Nitou Beel, Dampur, Kamrup District, Assam”	Dr. Sikha Rani Kalita	Miss Nazmin Sultana	2017--2018
7	“A Project on Cocoon characteristics of Eri Silkworm in Sualkuchi Assam”	Dr. Kakali Talukder	Sri Kaushik Baishya	2017--2018
8	“A comparative study on the biochemical characteristics of different silkworm tissue of Muga Silkworm during chotua crop”	Dr. Kakali Talukder	Sri Mamash Malakar	2017--2018
9	“To Study About the Cocoon characteristics of Muga Silkworm in Govt. sericulture Farm, Sualkuchi, of Kamrup District”	Dr. Kakali Talukder	Minhaz Yesmin Sultana	2017--2018
10	“A Study on Morphological Characteristics of Chout Eri Silkworm in Sualkuchi Muga Firm of Kamrup District”	Dr. Kakali Talukder	Sri Priyanka Kalita	2017--2018

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Department of Chemistry

Sl no	Topic of the project	Guided by	Student Name	Year
1	Determination of the contents of Cold Drinks	Kangkan Baruah	Chandan Kalita	2017-18
2	Preparation of Ink	Dr. Pulin Sarma	Jayanta Kr. Sarma	2017-18
3	Determination of the contents of Cold Drinks	Kangkan Baruah	Nilakantha Das	2017-18
4	To Extract Nicotine Sulphate From Samples of Cigarettes.	Bhabesh Deka	Pallab Uzir	2017-18
5	Determination of Ca/Mg & Total Dissolve Solid of Brahmaputra River, Sualkuchi	Kangkan Baruah	Rahul Hussain	2017-18
6	Preparation of Ink	Dr. Pulin Sarma	Rajib Ch. Das	2017-18
7	To Extract Nicotine Sulphate From Samples of Cigarettes.	Bhabesh Deka	Rubul Bharali	2017-18
8	Determination of Ca/Mg & Total Dissolve Solid of Brahmaputra River, Sualkuchi	Dr. Pulin Sarma	Sahid Julfukkar	2017-18
9	Determination of Ca/Mg & Total Dissolve Solid of Brahmaputra River, Sualkuchi	Dr. Pulin Sarma	Saidul Ahmed	2017-18
10	Determination of the contents of Cold Drinks	Kangkan Baruah	Angana Uzir	2017-18

Department of Physics

Sl no	Topic of the project	Guided by	Student Name	Year
1	ZnS-PVA nano composite prepared by chemical route method and its particle size	Chandrama Kalita	Nabanita Rajbongshi	2017-18

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List of exhibitions/Seminars/Tour/Training conducted by the college

Sl. No	Date	Deptt.	Program title	Name of the guest
1	14/10/17	Zoology	Invited lecture on “defense mechanism in human body	Dr. Kamal Choudhury, Zoo Deptt., B. Baruah College
2	17/10/17	All Participating Deptts.	Study to Shillong (Air Force Museum, Tissue Culture Lab, NEHU and others	
3	31/10/17	Deptt. Of Chemistry	Workshop on “Application of EAT-FAT module” for PFMS	Mr. Hillol Kashyap, Operational manager, Ministry of Financance, Govt. of India Mr. Chinmoy Ghosh, Project Manager, Ministry of Finance, Govt. of India
4	23/3/18	Deptt. Of Chemistry & all Science Deptt.	Preparation of molar solution	Instructor :- Dr. P. Sarma, K. K. Barua, B. Deka, Deptt. Of Chem.
5	31/3/18	Deptt. Of Botany	Invited lecture “Medicinal plants challenges and prospects and commercial cultivation in Assam”	Dr. Promod Medhi, Asstt. Prof, Pandu College, Ghy
6	31/3/18	Deptt. Of Zoology	Study Tour to Field trip to Jesingfa Aqua Resort.	Supersiving teacher, Bandana Deka, Dr. Kakali Talukdar, Dr. Sikha Rani Kalita.
7	3/4/18	Deptt. Of Chemistry	Study Tour to Kolkata, Bose Institute, National Science Museum, Jadhabpur University, Botanical Garden, Indian Institute of Chemical Biology, CISR, Kolkata, India and Science City.	Supervising teacher: Bhabesh Ch. Deka
8	6/4/18	Deptt. Of Physics & Botany	Study Tour to Tezpur University, Botanical garden (Tezpur)	Supervising teacher: Dr. K. Choudhury, Dr. N. Kakati, Dr.C. Das, C. Kalita Dr. U. Baishya, J. Deka
9	30/4/18	Deptt. Of Computer Science	Study Tour to Kolkata, Science city, Victoria memorial, Planetorium, Botanical garden etc.	Supervising teacher: Simanta Sarma and Deepranjan Baisnab.
10	26/6/18	Deptt. Of Computer Science	Workshop on DBMS System and implementation in students’ project using Oracle and MySQL.	Apurba Kalita Prof. Assam Engineering college, Guwahati

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List of New Practical's/ demonstrations introduced

Date:.....

Year 2017-2018

Department of Zoology

Sl No	New Practical done	Class
1	Measurement of P ^H of Water Sample by Lovibund disc Comparator	2 nd Semester (Major)
2	Relative Humidity by Wet & Dry Bulb Thermometer	2 nd Semester (Major)
3	Staining Techniques of Nucleolus	3 rd semester (Major)
4	Study of Cardiac cycle in Frog / Rat Using kymograph	5 th semester (Major)
5	Separation of Amino Acid by Paper Chromatograph	5 th semester (Major)
6	Separation of Amino Acid by Thin Layer Chromatograph	5 th semester (Major)
7	Estimation of Ascorbic Acid in lemon	5 th semester (Major)
8	Others: Various experiments were done with sufficient equipments and materials after receiving the fund from Star College Scheme 2017-2018	1 st semester----6 th semester (both major and general)

Department of Chemistry

Sl No	New Practical done	Class
1	Chromatographic separation of cations and pigments by using TLC	3 rd semester (major)
2	To determine the specific rotation of an optically active substance by polarimetric method	5 th semester (Major)
3	To find the rate of the composition of H ₂ O ₂ catalysed by Fe ³⁺ ions	5 th semester (Major)
4	To test the validity of Beer –Lambert's law using colorimeter	6 th Semester (Major)
5	Conductometric titration HCl / NaOH, oxalic acid/NaOH, acetic acid/ NaOH	6 th Semester (Major)
6	Potentiometric titration HCl/NaOH, oxalic acid/NaOH, acetic acid/ NaOH	6 th Semester (Major)
7	Others: Various experiments were done with sufficient equipments and materials after receiving the fund from Star College Scheme 2017-2018	1 st semester----6 th semester (both major and general)

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Department of Botany

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Sl No	New Practical done	Class
1	Microtomy slide preparation techniques	3 rd semester (Major)
2	Image documentation by Camera Lucida	5 th Semester (Major)
3	Isolation, sterilization as pure cultural techniques of micro organism by Laminar Air Flow, Autoclave, Hot air oven and Incubator	5 th Semester (Major)
4	Karyotype study of microscopic organism by Trinocular, Binocular	5 th Semester (Major)
5	Others: Various experiments were done with sufficient equipments and materials after receiving the fund from Star College Scheme 2017-2018	1 st semester----6 th semester (both major and general)

Department of Physics

Sl No	New Practicals done	Class
1	To determine the Q factor of a series resonance circuit containing L C and R for 3 different values of R	3 rd semester (major)
2	To determine values of self induction of a coil with the help of Anderson's bridge	5 th semester (Major)
3	To measure the phase difference between the signal across R and C of an R-C network using CRO and hence find the value of the resistor and frequency of the signal	5 th semester (Major)
4	To study the variation of resistance of a thermistor with temperature and then measure the unknown temperature of liquid with it.	6 th Semester (Major)
5	To determine the surface tension of a fruit juice extracted from various citrus fruits using 'Jagor method'	6 th Semester (Major)
6	Others: Various experiments were done with sufficient equipments and materials after receiving the fund from Star College Scheme 2017-2018	1 st semester----6 th semester (both major and general)