December 2023



Phone: 2455-4504/2486-3912 Fax : (033) 2486-3006 Mail : mail @asutoshcollege.in Web : www.asutoshcollege.in

- TITLE OF EVENT/ PROGRAMME (SEMINAR/ WEBINAR/ WORKSHOP/EXTENSIONLECTURE/ EXTENSIONACTIVITY/ANYOTHERACTIVITY): One Day National Conference MCBT-2023 (Material Chemistry for Better Tomorrow – 2023)
- > THEMEOFTHEEVENT/PROGRAMME: National Conference
- ► ACADEMICSESSION:2023-2024
- ➤ DATE: 20 December 2023
- > VENUE: Seminar Hall, Centenary Building, Asutosh College
- **≻ OBJECTIVE/PURPOSE:**

The national conference on **Material Chemistry for Better Tomorrow** (MCBT-2023) will cover a broad spectrum of research and provide a platform to interact and exchange knowledge among the researchers in frontier chemical research. The conference will be organized by the department of chemistry and IQAC, Asutosh College, Kolkata in collaboration with the department of chemistry, R.K. mission residential college, Narendrapur.

The conference will include:

- 1. Covalent organic frame work.
- 2. Molecular electronics.
- 3. Metal organic frame work

➢ SPEAKER/S / RESOURCE PERSON/S:

The guest speakers were Prof. Dr Partha Sarathi Mukherjee, Department of IPC, IISc, Bangalore, Dr. Surajit Ghosh, Assistant Professor, Department of Chemistry, Delhi University, Dr. Suman Ray, Assistant Professor, Department of Chemistry, Presidency University, Kolkata, Dr. Anindita Chakraborty, Assistant Professor, Department of Chemistry, Central University of Haryana.



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► TARGETAUDIENCE/PARTICIPANTS:

UG, PG Students, research scholars and faculties of Asutosh College as well as other colleges and Universities. Special Invitees: Colleges with MoU & Spoke Colleges. (As per the directive of Higher Education Department, Govt. of West Bengal)

➤ ATTENDANCESHEET: Attached

> BRIEFREPORTABOUTTHEEVENT/PROGRAMME:

The Department of Chemistry organized the One Day National Conference MCBT-2023 (Material Chemistry for Better Tomorrow – 2023) in collaboration with Department of Chemistry (R.K. Mission Residential College, Narendrapur) in association with IQAC, Asutosh College. The guest speakers were Prof. Dr Partha Sarathi Mukherjee, Department of IPC, IISc, Bangalore, Dr. Surajit Ghosh, Assistant Professor, Department of Chemistry, Delhi University, Dr. Suman Ray, Assistant Professor, Department of Chemistry, Presidency University, Kolkata, Dr. Anindita Chakraborty, Assistant Professor, Department of Chemistry, Department of Chemistry, and Central University of Haryana. There were 13 poster presentations. The audience was very much encouraged to raise their queries during the entire session and clear their doubts.

≻ EXPECTED OUTCOME:

The conference witnessed the convergence of brilliant minds from diverse backgrounds, creating an environment that fostered exploration and discourse across the expansive spectrum of material chemistry. The collaborative spirit displayed by the participants has undoubtedly enriched our collective understanding and propelled the boundaries of research in this vital field. I extend my heartfelt gratitude to each participant, as their invaluable contributions have been instrumental in making this conference a resounding success. Together, we have laid the foundation for continued exploration and innovation in material chemistry, shaping a better tomorrow through the pursuit of knowledge.



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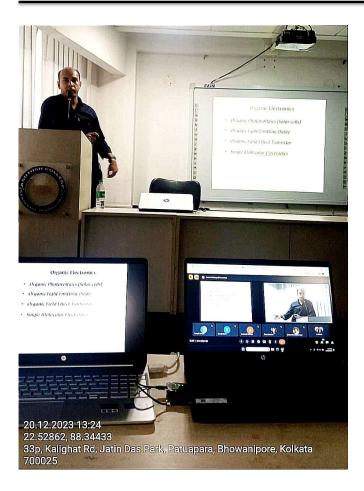
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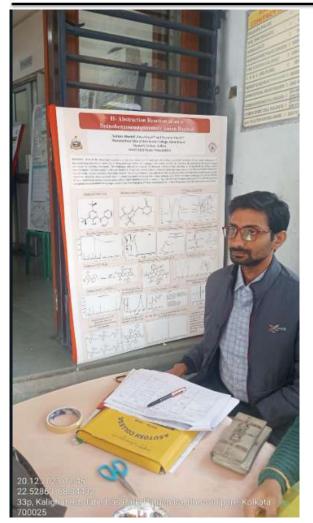
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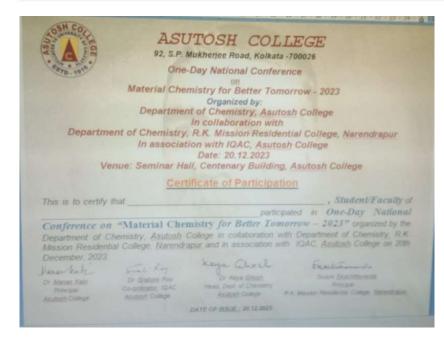


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ATTENDANCE SHEET

NO OF PARTICIPANTS PRESENT: 53

One Day National Conference MCBT-2023 (Material Chemistry for Better Tomorrow – 2023) [Blended Mode] DEPARTMENT OF CHEMISTRY DEPARTMENT OF CHEMISTRY (K.K. Mission Residential College, Narendrapur) IQAC,ASUTOSH COLLEGE Organised By in collaboration with in association with Special Invites: Colleges with MoU & Spoke Colleges (As per the directive of Higher Education Department, Govt. of West Bengal) Wednesday, 20 December 2023 11:30 A.M. Onwards Wednesday, 20 December 2023 11:30 A.M. Onwards Venue: Seminar Hall, Centenary Building, Asutosh College

Name	Designation	Affiliation	Email	Signature Phone
Sorenya Wolay.	SRF	University of Calcutta.	Kolaysonmya 50 gmail	\$ 6291772149.
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Sourik Santra	Faculty	Sundarburn Maharidya laya	camtra . cherne gravil con	9679255843
Dr. Parka Majumbos	12	N.D. College, Howral	nolepm 13 @ gmail. Com	9424183555
Naven Mudi	52	Prijay Krishna Girls College	Waven undi 007 Ogmail. con	7872410048
LAZUMLA TSHERING SHERPA	ч	bijoy Krishne firls Collge, Humh	lazumsherpe Ogmikion.	9932872559.
Sudipta Nondi	JRF	Ramabnishna Missilin Regidential College, Novendropur.	sudiptanandicham@gnailes	7980529097
Dr. Senjuti Manalal	Faculty	Muralidhar Grist College University of Calcutta.	gmail. com	8450029374
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	Name	Designation	Affiliation	Email	Phone
	PRAKASH K MANDAL	sRF	University of Calcutta	prakes & manda 1121 @ gunail.co	8637822254
	Tapas Bela	SRF	Jadaven University	topasbora 2013@ Analia	
•	DR. DEBANJAN DHAK	GUEST ANTON	ASUTOSH COLLEGE	dhasi dakauja Qg meilican	9231637963
	Anthona Ruy	Research Schalaus.	university of Calcutte.	contabaray 1993@ granal 1. Com	9804883011
	Rahul Pal	Bisc statent	vnivereity of calcotta	Pito kho thumar par 1269	906946220
	Szüjan Majundez	BSC Student	University of calculta	Stringender 2005@	7431576340
-	DR Debapticsad land	Gollage	J. D. College	drdponda72@ zmail.com	863781531
-	Dr. Sarat chanster Pata	SACT	Muralidhor Girls' college	sarat cluen 1001@ grad con	9062505019
	DR. AMIT SAHAROY	ASSISTANT PROFESSOR	NEW ALIPORE COLLEGE	omiterhonychen@gmit.	7003570779.
	DR. CHURALA PAL	SACT	Basanti Devi College	churdap-16-9	98318823
	DR. AMIT DALUI	Assistant Notessor	Department of chemistry Jogamaya Devi college	church 123@gmil. amildalui @gnail.com	9051557672

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	Name	Designation	Affiliation	Email	Phone
	Speaker-Dr. Anindita Chakraborty	Assistant Professor	Department of Chemistry, Central University of Haryana.	achakabirty@cuhacin Awindita 20/12/23	
	Speaker-Dr. Suman Ray	Assistant Professor	Department of Chemistry, Presidency University, Kolkata.	Sumekry	7022137528
0~	Poster presenter- Priyanka Mukherjee	SACT	Department of Biochemistry, Asutosh College, Kolkata.	Priyankas muchende priyankas muchende Dautochoulege.in	DU
~	Poster presenter- Antara Roy		Department of Chemistry, University of Calcutta, 92 A. P. C. Road, Kolkata- 700009	Hotellorecter Committee	8910 977711 Roberts Re-
~	Poster presenter- Ratul Hore		Department of Chemistry, Ramakrishna Mission Residential College (Autonomous), Kolkata 700103	ratul horechemegnail.	8910954211 Ratiture
-	Poster presenter- Soumya Mondal		School of Chemical Sciences, Indian Association for the Cultivation of Science, Kolkata 700032, West Bengal, India.		
	Pøster presenter - Prakash Kumar Mandal		Department of Chemistry, University College of Science & Technology, University of Calcutta, 92 A. P. C. Road, Kolkata – 700009		
1	Poster presenter- Tapas Bera		Department of Chemistry, Jadavpur University, Kolkata-7000032	and and a second second	
Y	Poster presenter- Debanjan Dhar	Visiting Faculty		dhar.debanjan@gmail.com	

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		Seminar Hall, Centenary Building, Asut		
Name	Designation	Affiliation	Email	Phone
Sourav Mukherjee	M.Sc	Asotosh Callege	mukkojen sowav 0123 @gmail.com	912369011
Kunal Chowdhury	M.S.C.	Asutah College	kchordhur 5510@	628917259
Afroj Ahmed Ansari	M.SC	Asutosh College Asutosh College		62911352
Sagnik Chakraborty	M.Sc	Asutosh College	Sagurtech S@ gmail.com Sagurte clakraborty	9073471
Md Ozaif Ayubi	M. Se	Asuboth College	Md ozaj dy bi 3/20 mil	898/58/2
Sneha Halder	m.Sc	Do	She haden 1507 (gml-	
Sejal Sharma	M.Sc	Asutoch College	ejalsharmab44 @ gmail. com	8250769
Isha Talukdar	M.Se	Do	talukdarisha 174 @gmail com	
Utsav Mandal	M. S.L	Asutosh College	iomulson mandal 9999 @ gmail. com	74777011
Abhra Pal	M.sc	Asutosh college	Palabhra 123@ Amail. com	987540330

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EVENT: SEMINAR ON INTELLECTUAL PROPERTY RIGHT

Date:7.12.2023

Venue: Seminar Hall, Centenary Building

Title of the event: ISSUES RELATED TO INTELLECTUAL PROPERTY RIGHTS

Speaker: Smt. Kajal Sinha

Organizing Committee: Seminar/ Workshop Organizing Central Committee in association with the Department of ECONOMICS & IQAC, Asutosh College

Summary of the event: The speaker has made elaborate discussion giving a broad over view of the subject. Intellectual Property Rights (IPR) are legal protections granted to the creators and owners of intellectual property, which encompasses creations of the mind such as inventions, literary and artistic works, designs, symbols, names, and images used in commerce. These rights play a crucial role in fostering innovation, creativity, and economic development by providing a framework for individuals and businesses to protect their intangible assets.

There are several forms of intellectual property rights, each serving to safeguard different types of creations:

1.Patents: Protect inventions and discoveries, granting exclusive rights to the inventor for a specified period.

2.Copyright: Safeguards the original works of authors, artists, and creators, including literary, artistic, and musical creations.

3. Trademarks: Protect distinctive signs, symbols, and names that identify and distinguish goods and services in the marketplace.

4. Trade Secrets: Encompasses confidential business information, such as manufacturing processes, formulas, and customer lists, providing a competitive advantage to the holder.

5. Industrial Designs: Guard the visual design of objects, providing exclusive rights to the appearance of a product.

6. Geographical Indications: Protect indications that identify a product as originating from a specific geographical location, with qualities, reputation, or characteristics attributable to that place.

IPR not only serves to protect the rights of creators but also encourages them to invest time and resources in developing new ideas, products, and services. This protection fosters a climate where innovation is rewarded, ultimately driving economic growth and technological advancement.

However, the balance between protecting intellectual property and fostering fair competition is delicate. Striking the right balance ensures that creators are incentivized to innovate, while also allowing society to benefit from the widespread dissemination of knowledge and information.

Benefits/outcome of the initiative for the students: The seminar was for the students and many faculties joined the lecture session. In the age of rapid technological advancement and globalization, the enforcement and harmonization of intellectual property laws on a global scale have become increasingly important. International agreements, such as the Agreement on Trade-Related Aspects of Intellectual Property Rights (TRIPS), aim to establish a standardized framework for intellectual property protection across nations. In conclusion, intellectual property rights are essential for promoting innovation, creativity, and economic growth. Striking a balance between protection and dissemination of knowledge is crucial to ensure a thriving and dynamic global economy.

PICTURES

















A REPORT ON ONE DAY VISIT TO SURAKSHA DIAGNOSTIC PVT LTD RAJARHAT, KOLKATA

THEME OF THE EVENT: Semester V students of Department of Microbiology, Asutosh College along with faculty members visited the Corporate office of Suraksha Diagnostic Pvt. Ltd., Rajarhat, Kolkata. This visit was mainly focused to understand the various routine tests as well as Molecular Biology techniques that are employed in a diagnostic lab. This industrial visit is a part of their curriculum. **ACADEMIC SESSION:** 2023-2024 18th and 19th December 2023 DATE: Suraksha Diagnostic Pvt. Ltd., New Town, Rajarhat, Kolkata **VENUE: OBJECTIVE/ PURPOSE:** To inculcate among students zeal of practical knowledge and bridge the gap between theoretical knowledge and it's practical application in industries. **RESOURCE PERSON:** Dr. Samiddha Banerjee, Scientist, Research and Development, Corporate Office and Central lab, Suraksha Diagnostic Pvt. Ltd. **ORGANIZERS:** Following Faculties of Dept. of Microbiology, Asutosh College Dr. Kuntal Kanti Goswami, Assistant Prof. & HOD Dr. Pranab Kumar Das, Assistant Prof. Dr. Gajendra Nath Maity, Assistant Prof. Mrs. Parbati Nag, Faculty Dr. Sankar Chandra Basu, Assistant Prof. **TARGET PARTICIPANTS:** Semester V students of the Department. Batch I on 18th December 2023 Batch II on 19th December 2023



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ATTENDANCE SHEET:

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Sem	ester - I
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Signature of Teachers	- 18-12-2023
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Signature of students	The second second second
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2> Siyali Shar	22) Junaid Javes.
3) Anpita Das	23) Sambit Sangel.
47 Shupa Gharai	2 Taha Wayan
5) Sudipto Saha	23) Ankan Sakari
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6) Bidhyabati Bawir.	23) Ashonita 15mg
7) Sheha Das	28) Sontomu Sahu
8) Buity Chakrabosty	
9, Swale Maheswari	294 Ankir Roy and a bar
10) Savati Kunde	30 Sujay Nayak
	31) Granzi Barenjee Myster
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Batch - IL Date - 19.12.2023 Signature of teachers 1) Pranabkumapa 2) Gajendra Nath Maily 3> Sankan chandra kam 4) Signature of Students 1> Ayan Likari 21/10 Sarthak Shaw 2> Souni White 22) Kaustan Naska 3> Sudipta Saha _ M 23) Areesh Madeem 4) Monalisa Mazi 24) Debausher Ray and durd 100 25) Sarior Hosen Mondal 5) Anish Sen 5) Amushke Gayin' Chancello '26) Ashni Luy 7> Adrija Pal 24) Oidi Guha Roy 8> Aukit Paul >> Khusi Verman with 28) 24% 10> Bratyuska Das 100 294 11> Shinjini Sala 30> 12> Oindrila Sengupta 13) Sayon dip Chabraborty 14) Sudi Bhakat. AWATER STATE BLUCO 15) Rik Ray 16) Eslika Gihosh la bankon stoon of Sel 17) Debryha Des, 151 Pousiaila 18) Debargha Bhanja DADIE ANTOPIET XFI 19> Dipanwita Sarangi 181 Isnall Weller VI) forncelles Inford 20) Ashis Dara



BRIEF REPORT ABOUT THE EVENT/ PROGRAMME:

The various departments of the Diagnostic Centre are:-

1. Histopathology:

In this lab the cells and tissues are examined to understand the nature of the disease. The following activities typically found in the lab are:

- Gross Station Here the samples of tissues and cells from different diagnostic centers are brought and properly preserved.
- **Tissue Embedding Processing Room** The collected tissue are processed here by applying formalin, graded alcohol, xylene and finally the tissues are embedded in paraffin wax in the shape of a block.
- **Microtome** The paraffin blocks were put into a microtome to cut it in thin sections ranging from 2-20µm which makes them suitable to visualize under a microscope.
- **Staining** The thin sections were properly stained with eosin to impart a pinkish colour to the cytoplasm, the cells were stained with haematoxylene to give a bluish tint to the nucleus. After staining the thin sections of the tissues were properly visualized under a microscope.

2. Microbiology:

This department mainly focuses on the study and analysis of microorganisms including bacteria, virus, fungi and parasites. The various sections of this department were as follows:

- Laminar Air Flow- here BSL-3 standardized laminar are used to test bacterial culture, viral culture and to test cultures for their antibiotic sensitivity.
- Serology In this section the study of blood serum is done which focuses on the presence of antibodies, antigens, and other substances. Mainly ELISA tests are done here to test for dengue, typhoid, etc.
- **Molecular Genetics** In this department karyotyping, FISH are employed to identify any chromosomal defect either numerically



or structurally. Here the cells are cultured in CO_2 incubator, properly harvested and dropping is done for final staining.

• NGS (Next Generation Sequencer) - It is mainly used to check for BRCA (Breast cancer) gene which detects the probability of any inherited disease. It takes almost 12 days to obtain results.

3. Biochemistry:

This department mainly focuses on studying the chemical processes and substances that occur within living organisms. Here fully automated analyzers and sophisticated instruments were used to produce throughput result, and the biochemists and clinical scientists analyze this particular result to provide interpretations to healthcare providers.

The following parameters are analyzed –

- **Enzyme Assay** It is conducted to measure the activity of specific enzymes in biological samples. Abnormal enzyme levels can be indicative of certain diseases.
- **Hormone Analysis** The hormones analyzed include thyroid hormones, insulin, cortisol, and sex hormones.
- **Metabolite Analysis** The analysis of metabolites, such as glucose, cholesterol, and triglycerides, provides valuable information about an individual's metabolic health and risk factors for cardiovascular diseases were mainly done here.
- **Protein Analysis** -Protein assays are performed to assess the levels of specific proteins in the blood or other samples.

4. <u>Haematology</u>:

This department mainly focuses on the study and analysis of blood and blood related disorders. The following activities are observed in this department

- **Complete Blood Count (CBC)** This standard test provides information about the number and type of different blood cells.
- **Blood smear examination** This test is mainly done to check the blood cell morphology.
- **Genetic Testing** This test is also done to check for probable sickle cell anemia, thalassemia and certain types of leukemia.
- Flow Cytometry This apparatus is utilized to analyze the physical and chemical characteristics of a particular cell in blood.



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EXPECTED OUTCOME:

This industrial visit immensely helped the students to

- Bridge the gap between theoretical knowledge and its practical application in industries.
- Gain knowledge about tissue sectioning in a histopathological lab.
- The use of microbiology in diagnostic centre.
- Gather information about the biochemistry tests in diagnosis.
- Get acquainted with many sophisticated mol-bio instruments as Multi Plex PCR, Next Generation Sequencer, Karyotyping tools & software, microtome machine, automated analyzer machine, flow cytometer, etc.

> GEO-TAGGED PHOTOGRAPHS:



Batch I Students with Teachers



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Felicitation of Resource Person



Batch II Students with Teachers



> TITLE OF EVENT:

CSIR Integrated Skill Initiative: Skill Development Training Programme (Jointly organised by Central Glass and Ceramic Research Institute in collaboration with Asutosh College)

- THEME OF THE EVENT/ PROGRAMME: Techniques of Chemical Characterization of Glass, Ceramics and Allied Materials
- > ACADEMIC SESSION: 2023-2024
- **DATE:**14th and 15th December, 2023
- VENUE:Council Of Scientific And Industrial Research-Central Glass & Ceramic Research Institute (CSIR-CGCRI)
- OBJECTIVE: To improve an individual's level of awareness, increase their skill in one or more areas of expertise and increase their overall motivation to perform their job well. This program also aims at disseminating knowledge and appropriate skill practices through recognized systems of training, testing and certification to validate competency levels.

SPEAKER/S / RESOURCE PERSON/S: Dr. P.K. Sinha Dr. Jotirymoy Sikdar Trilochan Prasad Sahoo Ranjan Samaddar

TARGET AUDIENCE/ PARTICIPANTS: Semester III Students of Asutosh College from the Department of Microbiology.



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Web a man @asutoshconcgc.m

Web : www.asutoshcollege.in

> ATTENDANCE SHEET:

Signature of the participants. (Skill development training programme) Date: 14th and 15th Dec'23 > Saikat Bose 27 Abhishek Dey 3> Anxita Barna 4) Dhritisundar Jana. 5/ Subhronu Podler 6) Kausik Holder TY Saquik Selvati 8) Neghadri Malakar 9) Incha Datta 10) Biswadip Mukherjee 11) Tarun Pandey 12) Angho Paul 13 Tamanna Sinka 4) Poroma Nath 157 Aruske Dasi 16) Utsha Chatterjee 14) Ampita Saha. 18> Rajoshree Soha. 19) Mayurakshi Basak 20) Debrahya Sarkar 21) Jarchani Gupta 23 Dindrille Dutta 23 Anwerke Mukheyee 24) Anija Thas

BRIEF REPORT ABOUT THE EVENT/ PROGRAMME:

The programme started with an inauguration session chaired by Dr. P.K. Sinha,

Dr. Jotirymoy Sikdar, Dr. Kuntal Kanti Goswami (Head of the Department of Microbiology, Asutosh College) and Dr, Gajendranath Maity (Assistant Professor, Department of Microbiology, Asutosh College),

It was a highly knowledgeable and interesting workshop, where students learnt about the chemical analysis of glass and ceramics, determined the chemical composition of Dolomite using complex titrations, applications and use of UV-Vis spectrophotometer and the



production of PLASMA, the fourth state of matter using Argon gas at a very high temperature of 10000 K.

Students were also enriched with the knowledge of various water purification techniques, principles of ion selective electrode and measurement of fluoride and chloride using ion meters.

EXPECTED OUTCOME: Through this educational program, the students have acquired additional knowledge about a different course of study aside from their own domain of syllabus oriented studies. It will also help them to dabble into different fields of research for their future preferences in academics or research.

> GEO-TAGGED PHOTOGRAPHS:









Phone: 2455-4504/2486-3912

Fax : (033) 2486-3006

Mail : mail@asutoshcollege.in

Web : www.asutoshcollege.in

