# DEPARTMENT OF GEOGRAPHY HAZI A.K. KHAN COLLEGE

P. O+P.S- Hariharpara, Dist. - Murshidabad, Pin- 742166 E-mail Id- geographydepartmenthakkc@gmail.com

### **SEMINAR REPORT**

### One Day State Level Seminar on

"Global Navigation Satellite Systems (GNSS): Overview and its Applications "

### Organised by:

Department of Geography, Hazi A. K. Khan College in collaboration with the Internal Quality Assurance Cell (IQAC) of Hazi A. K. Khan College.

**Date:** 05.10.2023

**Time:** From 12.00 Noon

Venue: Rejaul Karim Kaksha, Hazi A. K. Khan College.

### **Honourable Speaker:**

Dr. Sakti Mandal, Assistant Professor, Department of Geography, Sripat Singh College.

### Patron:

Dr. Goutam Kumar Ghosh, Principal, Hazi A. K. Khan College.

### **Convener:**

Protyus Kumar Ghosh, HOD, Department of Geography, Hazi A. K. Khan College

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### **Programme Schedule**

The schedule for the program was carefully planned to make sure everyone gets a good and well-rounded experience during the seminar.

- 1. **Inaugural Session:** Welcoming remarks and introductions. (12.05 to 12.15 P.M.)
- 2. **Welcome Address by Patron:** Dr. Goutam Kumar Ghosh, Principal of Hazi A. K. Khan College. (12.15 to 12.30 P.M.)
- 3. **Keynote Address:** Protyus Kumar Ghosh, HOD, Department of Geography, Hazi A. K. Khan College. (12.30 to 12.45 P.M.)
- 4. **Speech by the Resource Person:** Dr. Sakti Mandal, Assistant Professor, Department of Geography, Sripat Singh College. (12.45 to 1.45 P.M.)
- 5. **Interactive Session:** (1.45 to 2.00 P.M.)
- 6. **Vote of Thanks:** Protyus Kumar Ghosh, HOD, Department of Geography, Hazi A. K. Khan College. (2.00 to 2.05 P.M.)
- 7. **Closing Ceremony:** Certificate Distribution and Feedback. (2.05 to 2.20 P.M.)

### **OBJECTIVES:**

The primary objective of the seminar was to provide an overview of Global Navigation Satellite Systems (GNSS) and its applications. The seminar also aimed to:

- ✓ Educational Enlightenment: To provide participants with a comprehensive understanding of Global Navigation Satellite Systems, their functioning, and the diverse range of applications in various fields.
- ✓ **Promoting Interdisciplinary Knowledge:** To encourage interdisciplinary discussions by showcasing the relevance of GNSS in geography, technology, environmental science, and other related disciplines.
- ✓ **Fostering Practical Insights:** To offer practical insights into the applications of GNSS through real-world case studies, demonstrating its significance in different sectors.
- ✓ **Knowledge Exchange:** To facilitate knowledge exchange among participants, creating a platform for sharing experiences, insights, and best practices related to GNSS applications.

### TARGET AUDIENCE:

The seminar was targeted at a diverse audience, including:

- 1. Students and faculty members of Geography departments and related disciplines.
- 2. Professionals working in fields related to GNSS applications, such as agriculture, forestry, navigation, and disaster management.

### **SEMINAR DESCRIPTION:**

The seminar unfolded with a meticulously planned agenda that facilitated an in-depth exploration of the seminar's theme:

**Inaugural Session:** The seminar commenced with a warm welcome and introductions by the organizers. The gathering was addressed by the Convener, Protyus Kumar Ghosh, who expressed gratitude to the attendees and highlighted the importance of understanding GNSS technology in today's world.

**Welcome Address by Patron:** Dr. Goutam Kumar Ghosh, the Principal of Hazi A. K. Khan College, delivered a welcoming address, emphasizing the significance of understanding GNSS technology and its practical applications in various fields.

**Keynote Address:** Protyus Kumar Ghosh, Head of the Department of Geography, provided a comprehensive overview of GNSS technology. The keynote address laid the foundation for a detailed exploration of GNSS principles and applications.

**Speech by the Resource Person:** Dr. Sakti Mandal, a distinguished academician and an expert in the field of Geography, took the stage during the seminar's main session. Dr. Mandal initiated his speech by providing a thorough understanding of the fundamental principles of GNSS technology. He explained the architecture of global satellite systems, highlighting the role of constellations and ground-based receivers in ensuring accurate and real-time positioning.

The resource person delved into the evolution of GNSS technology, tracing its development from its inception to the current state. He elucidated on the advancements in satellite design, signal processing, and the integration of multiple constellations, emphasizing the continuous improvement and expansion of GNSS capabilities.

Dr. Mandal expounded on the factors influencing the accuracy and precision of GNSS positioning. He discussed the significance of factors such as satellite geometry, atmospheric conditions, and error correction techniques, providing participants with a nuanced understanding of the challenges associated with achieving high-precision navigation. The speech highlighted the diverse applications of GNSS technology across various industries. Dr. Mandal presented case studies and examples demonstrating its use in navigation, agriculture, transportation, disaster management, and urban planning. Real-world scenarios were discussed to showcase the transformative impact of GNSS in these domains.

**Interactive Session:** Following the speech, Dr. Mandal actively participated in a question-and-answer session. Participants had the opportunity to seek clarifications, pose specific queries related to their fields of interest, and engage in discussions, fostering a deeper understanding of GNSS technology.

**Vote of Thanks:** Protyus Kumar Ghosh, HOD, Department of Geography, expressed gratitude to all participants, the resource person, and the organizing committee. This session served to acknowledge everyone's contribution to the success of the seminar.

### **Closing Ceremony:**

**Certificate Distribution:** Certificates were awarded to participants and speakers as a symbol of recognition and appreciation for their contributions to the seminar.

**Feedback Collection:** A brief feedback session was conducted, allowing participants to share their thoughts on the seminar's content, organization and suggestions for improvement. This feedback would be valuable for planning future events.

### **OUTCOMES:**

The seminar successfully realized its objectives and yielded several noteworthy outcomes:

- ➤ Participants gained a thorough understanding of the fundamental principles of GNSS technology, including the architecture of satellite systems, signal processing, and the factors influencing accuracy and precision.
- > The seminar successfully promoted interdisciplinary awareness by showcasing the relevance of GNSS in fields beyond geography, including agriculture, transportation, disaster management, and urban planning.
- ➤ Participants recognized the diverse applications of GNSS, fostering a broader perspective on the technology's potential impact across different sectors.
- ➤ The seminar facilitated knowledge exchange among participants, creating a dynamic platform for sharing experiences, challenges, and best practices related to GNSS applications.

### **STRENGTHS:**

The seminar boasted several strengths that contributed to its overall success:

- ✓ **Expert Speakers:** Eminent scholars and experts in the field of geography provided valuable insights and guidance throughout the seminar. Their expertise added credibility and depth to the discussions.
- ✓ **Active Participation:** Attendees actively engaged in discussions and presentations, fostering a dynamic learning environment. The eagerness of participants to contribute and learn from each other was a remarkable strength.
- ✓ **Collaboration:** The collaboration between the Department of Geography and IQAC ensured the seamless organization of the seminar, combining academic rigor with quality assurance. This collaborative effort ensured a well-structured and smoothly executed event.
- ✓ A well-organized program schedule contributed to a smooth flow of events.

### **WEAKNESSES:**

The seminar also encountered certain weaknesses that warrant consideration for future events:

✓ **Time Constraints:** Given the vastness of the seminar's theme and the numerous case studies, some topics had limited time for in-depth discussion. Future events might consider longer durations or parallel sessions to delve deeper into specific issues.

- ✓ **Logistics Management:** Efficiently managing logistics, including registration, accommodation for participants, and resource allocation, is crucial for the seamless execution of future events. Scaling up to accommodate larger audiences may require more extensive logistical planning.
- ✓ The seminar did not include any hands-on activities or simulations.

### **OPPORTUNITIES:**

The seminar generated several opportunities for future endeavors:

- ✓ Attendees can continue to network and exchange knowledge, fostering ongoing dialogue and cooperation.

  This networking can lead to partnerships, joint projects, and a broader dissemination of research findings.
- ✓ The success of this seminar opens doors to organizing similar events on a larger scale, potentially involving a broader audience and more comprehensive discussions. Expanding the scope and reach of the seminar can amplify its impact and influence.
- ✓ The seminar could be offered online to a wider audience.

### **CHALLENGES:**

The seminar encountered certain challenges, which can serve as valuable lessons for planning and executing future events:

- ✓ **Diverse Interests:** Balancing the varied interests and expectations of a diverse audience required careful planning and programming. Future seminars may benefit from audience segmentation and tailored sessions to cater to different interests.
- ✓ **Dissemination:** Ensuring that the seminar's findings and materials reach a wider audience beyond the event itself can be challenging but is essential for broader impact. Leveraging digital platforms, social media, and partnerships with media outlets can enhance dissemination efforts.

### **CONCLUSION:**

Overall, the seminar on "Global Navigation Satellite Systems (GNSS): Overview and its Applications" served as a platform for knowledge dissemination, networking, and fostering innovation in the field of GNSS technology. The event highlighted the significance of GNSS in various domains and encouraged further exploration of its potential impact. The organizers are committed to continuing their efforts in promoting GNSS awareness and applications through future initiatives.

### **Seminar Photo**













### **Seminar Flyer**

# HAZI A. K. KHAN COLLEGE

HARIHARPARA, MURSHIDABAD

A One Day State Level Seminar on

"GLOBAL NAVIGATION SATELLITE SYSTEMS (GNSS): OVERVIEW AND ITS APPLICATIONS"



Department of Geography Hazi A. K. Khan College

in collaboration with Internal Quality Assurance Cell (IQAC) Hazi A. K. Khan College



Honourable Speaker
Dr. Sakti Mandal
Assistant Professor
Department of Geography
Sripat Singh College

### Patron

Dr. Goutam Kumar Ghosh Principal Hazi A. K. Khan College

### Convener

Protyus Kumar Ghosh HOD, Department of Geography Hazi A. K. Khan College Date: 05.10.2023

Time: 12:00 noon

Venue : Rejaul Karim Kaksha

**GPS** 

Hazi A. K. Khan College

### Organizing Secretary

Parimal Karmakar & Bubai Ghosh Teacher of the Geography Department Hazi A. K. Khan College

### Support

Seminar Sub-Committee Hazi A. K. Khan College

**GNSS** 

### **Seminar Brochure**



Parimal Karmakar & Bubai Ghosh **Teacher of the Geography Department** Hazi A. K. Khan College

### **About the College**

The generous Hazi Abdul Kader Khan who dreamed of a college at Hariharpara, a remote village in the district of Murshidabad, donated a precious piece of land on which Hazi A. K. Khan College was established. The college began its auspicious journey on 8th September, 2008. Affiliated to the University of Kalyani, Hazi A. K. Khan College aspires to function as a centre for higher studies.

# GNSS

### **About the Seminar**

Global Navigation Satellite Systems (GNSS) have revolutionized the way we navigate and gather location-based information. These systems, comprising a constellation of satellites orbiting the Earth, have far-reaching implications across various industries and applications. To explore the vast potential of GNSS and delve into its diverse applications, a seminar titled "Global Navigation Satellite Systems (GNSS): Overview and Its Applications" is being organized. This seminar aims to provide a comprehensive understanding of GNSS technology, its operational principles, and the multitude of fields in which it is employed.

### Honourable Speaker

Dr. Sakti Mandal **Assistant Professor** Department of Geography Sripat Singh College Patron

Dr. Goutam Kumar Ghosh Principal Hazi A. K. Khan College

### Convener

**Protyus Kumar Ghosh** HOD Department of Geography Hazi A. K. Khan College Support Seminar Sub-Committee

Hazi A. K. Khan College

Protyus Kumar Ghosh: 8436087569 Bubai Ghosh: 7407570940

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# REGISTRATION FORM FOR STUDENT

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35	Hamidul Islam	Education	1	120		bogbulg876Bgog	1076571685
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### REGISTRATION FORM FOR FACULTY

SL. No.	Name	Department	Designation	Email Id	Contact No	
1.	Dr. Chandreni W.	History	Assistant Professe	n tushownhaldro	7051496021	
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4.	Badsa Khan	History	SACT-11	badsakhan 385 Bg	973464472	2 1
5	Abdur Razzall	Bengali	SACT-1	abdumnazzak 3950	@gmail. com/629	5737
6.	Dr. Pulokey Manda		Asset professor	Puiskog mondal agreet	com 8-101438000	1 -
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8.	DR. NANIGOPAL MALO	BENGAL!	Assistant Professor.	malonantifopal 19818 jmu		<b>Z</b>
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### **Attendance Sheet for Students**

SL. NO.	DEPARTMENT	SEMESTER	ROLL NO.	SIGNATURE OF THE STUDENT
1.	HiStONY	First	101	Grishti Ghosh
2.	HISTORY	RH	100	Graboni Sorkar
3.	Geography	2st sm	10	Qua parvin
4.	Greography	2nd Sem	01	Navren Panuen Molla
5.	Education	1st	06	Ashika lihalun
6.	Programme course	-110	147	Towfit Hogue Mondel
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8.	Ajija khatun History		20	Ajija khatun
9.	History	15+	24	Azmira Khatun
10.	History	1st	131	Anowar SK
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17.	Education	181	37	Amrika Khatun
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29.	Histony	151	115	Jesmina Aktoon Banu
30.	History	15+	34	
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32.	History	15+	135	Intuhena khutun
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### DEPARTMENT OF GEOGRAPHY HAM A.K.KHAN COLLEGE

P.O+F.S- Hariharpara, Dist. - Murshidabad, Pin- 742166 E-mail Id- geographydepartmenthald gmail.com

Date: 05.10.2023

A One Day State Level Seminar on "Global Navigation Satellite Systems (GNSS): Overview and its Applications "

Organised by the Department of Geography, Hazi A. K. Khan College in collaboration with the Internal Quality Assurance Cell (IQAC) of Hazi A. K. Khan College

# Attendance Sheet for Faculty / Staff

SL. NO.	DEPARTMENT	DESIGNATION	AFFILIATION	SIGNATURE OF THE FACILTY / STAFF
1.	History	Assist Por One	MA:LL	cl1
2.	& Political Spene	Assistant Profess	H.H.K.K.E	5.10.23
3.	Environmental studio	SACT-11	H-A-K-K-C	Whoh 5-10-23
4.	HISTORY		HAKK. C	2 10-23
5.	Bengalé	SACT-1	H.V.K.K.C	Badsa Khan ostiolas
6.	History		II W. K.K.C	Hazzall, 05/10/23
7.	Bengali	Assistant postegn	1/0.44.0	Blund 05) 10/253
8.	Philosophy			Oben 65) 10/253
9.	BENGALI	Assistant Professor	H.A.K.R.	Dett.
10.	Greoznaping	SACT-	1-1 AKKC	Naudopal Male
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12.	History Physical Education	8ACT-11	HAKKE	Sahan 85.10.2023
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17.	English o	SACT Asst. Prof.	JAKKC	Bushi
18.	Glasassahlas	SACT-I	HAKKE	Paring Karmakan 05-10-
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### DEPARTMENT OF GEOGRAPHY HAZI A.K.KHAN COLLEGE

P.O+P.S- Hariharpara, Dist. - Murshidabad, Pin-742166 E-mail Id- geographydepartmenthakkc@gmail.com

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## Participation Certificate Issue for Students

SL. NO.	DEPARTMENT	SEMESTER	ROLL NO.	SIGNATURE OF THE STUDENT
1.	Education	1 st	118	Samaul Sk
2.	Education	13+	117	Ashit Mchammod
3.	Education	1 st	120	Hamidul Islam
4.	Education	157	120	Nawab Shipaidoola
5.	Greegnaphy	151	07	Able Sayed Afriki
6.	Geography	18+	06	Shaikh Habibur Rahaman
7.	Greoghaphy	5+6	07	Salma Khatuer
8.	Greoghaphy	5th	61	Shabnom Fendous
9.	Geography	5th	20	Rosina xhatun
10.	Greography	5th	02	Asha Anton Jahan
11.	Geography	Ex-student		Poulami Debnath
12.	Geognaphy	· 2nd	10	Sahanaj Khatun
13.	Geography	and	09	Mehhoob Ali Monday
14.	Geography	272	12	Rosis mondal
15.	Geography	5th	28	Sakil Sk
16.	Geography	5 th Semesters	15	Amit Mondal
17.	Geography	5th Sementers	06	Rajikw Sk.
18.	Geography	5th Semester	18	Abdus Rout
19.	Education 0	1st	57	Manafaja AKtar Rang
20.	Education	ISt	59	Nassin Parvei
21.	Education	15+	119	Diluan Hossain
22.	History	15+	223	Koyel Khatan
23.	Education	Ist	209	Kh Mousumi Khatun
24.	Faucation	187	163	Reshma Khaton.
25.	Phara Raveation	15t	23	Khadiza Khatun
26.	Education	1st	150	Labore Kenortun
27.	Physical Education	11 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -	34	Sabruer Khatun
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SL. NO.	DEPARTMENT	SEMESTER	ROLL NO.	SIGNATURE OF THE STUDENT
29.	History	15-	208	Naspin Bany
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31.	1918200g	180	77	Ainul Seikh.
32.	History	158	200	Soileda Khatum
33.	Political	15+	80	Safia Khatun
34.	History	15t	34	Tao lima khatum
35.	History	181	127	Intuhena Khedun
36.	Histogry	134	115	Jesmira Akkun Banu
37.	History	15f	135	Sabram Khatein
38.	High	15t	129	Baby Natimim
39.	History	15+	119	Nanci Saint
40.	Control of the Contro	5th	147	Towfik Hoque Monda
. 41.	Programme Course	- 13	148	Faujia Khadun
42.	Brognamme Cowse	184	101	Brishti Ghosh
43.	H18+004	15+	100	Soulden Surzur
44.		1	10	Ria parvin
45.	Gregorapha	3nd		Ashika Khatish
46.	Ednention	15+	06	Nasrin Payuin Molla
47.	Geography	2nd	80	Anesus Mondal
48.	Education	454	109	Julekha Khatun
49.	Education	151	85	Kabeni Sulana
50.		188	208	Hohima Khatun
51.		2nd	252	Sohel Rama Sk
52.	Greognaphy	2nd	15	Naarif Haran
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54.	L-ducarion	1 st	50	Mofizul Mandin
55.		15+	52	Sainul Islam mandal
56.		158	27	surita Debrath
57.		101	16	Sangela Surlaw
58		1 St 1 St 1 St		Prannesu knudu
59	History History	1 st	35	Tosif Monetal
60	Hi310914	154	83	Mehede Hasan
61	History	250	89	Junayed Alam Biswas
62		454	24	Azmiraknatun
63		15t	(31	Anowarsk
64		13t	134	Pajes SK
65	History	15+	20	Ajija khatun
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68.	Geography	5th	27	Suram Mondal Prodyut Biswas
69.	GEOGRAPHY		16	trodyut Biswas
70.	(approache	5+	и	De bit Monda/
71.	Geography Geography	2nd	13	Shrreya Mondal
72.	Chemona	Sth	25	Ayesa Siddika Asyrida Chababardy
73.	Crederaphy	2nd	17	Apreita Chabraborry
74.	Geography	2md	08	MST Mandada Khatun Nafisa Samim Khatun
75.		2rd	11	Hafisa Samim Khatun
76.	Geography	2nd	16	Hoixa mondal.
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# DEPARTMENT OF GEOGRAPHY

HAZI A.K.KHAN COLLEGE P.O+P.S- Hariharpara, Dist. - Murshidabad, Pin-742166 E-mail Id- geographydepartmenthakkc@gmail.com

Date: 05.10.2023

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### Participation Certificate Issue for Faculty / Staff

SL. NO.	DEPARTMENT	DESIGNATION	AFFILIATION	SIGNATURE OF THE FACULTY / STAFF
1.	Polétical Secence	SACT-4	H.A.K.K.C	Safail Hossain Shailth
2.	ENVS	SACT-11	H.A.K.K.C	wken
3.	HISTORY	SACT-11	H.A .K. K. C	Badsa Khan
4.	ARABIC	SACT-11	H.A.K.K.C	M2 Resaul Karign Khan
5.	Bengali	SACT-1	H'A'K'K'C	Abduz Kozzak
6.	History	Assistat Drosessa		CA
7.	Bengali	ANT PROBLEM		Obulu ,
8.	Philosophy	Assistant Proffessor	The state of the s	Sta
9.	BENGALI	Assistant Professor.		xlavigo pal Mato
10.	BELOG mplm	BACT	HAKKE	Spires (10) 13
11.	History	SACT	HAKKC	Ar 05.10.2023
12.	Physical Education	8ACT=4	MANKE	00/10/2023
13.	Education	Acct Bot.	HAKKE	Nos 23
14.	Englot	034. D.A.	HAKKE	8
15.	SANSLAIT	SHET	Hillee	Abromany oshol2
16.	Arabic	SACT	HAKKC	Md Nababilon 5/10/2
17.	Englisha	Assistant	HAKKC	Burshi -
18.	Geography	SACT- [	HAKKE	Parimelxamayar 05-10-
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# HAZI A.K.KHAN COLLEGE

ESTD: 2008

Pin-742166 P.O + P.S.- Hariharpara . Dist.-Murshidabad

Website: www.haziakkhancollege.ac.in E-mail Id : haziakkhancollege@yahoo.com

E-mail Id: haziakkhancollege@gmail.com

Mob:

Memo No.: From: Principal Date: 29.09.2023

# NOTICE

It is hereby notified that the Department of Geography, in collaboration with IQAC of the college is going to organise a one-day State Level Seminar on 5th October 2023, at 12:00 noon, on the topic "Global Navigation Satellite Systems (GNSS): Overview and its Applications." Your active participation is highly solicited.

> Principal Hazi A.K. Khan College Hariharpara, Murshidabad

