



**Department of Geoinformatics**  
**School of Natural Resource Management**  
**Central University of Jharkhand**

**Minutes of meeting of 5<sup>th</sup> Board of Studies (DGI on 15<sup>th</sup> Sep. 2021)**

A meeting of the Board of Studies (BOS) of Department for Geoinformatics (DGI) was convened on 15<sup>th</sup> September 2021 (Wednesday) at 11:00 am. The meeting was conducted in on line mode using Google meet Link: [meet.google.com/mob-rmfv-rxs](https://meet.google.com/mob-rmfv-rxs). The following BOS members were present in the online meeting:

1.	Prof. A. C. Pandey, Department for Geoinformatics, CUJ, Dean, SNRM	Convener & Chairperson Ex-Officio
2.	Prof. Surya Prakash, National Institute of Disaster Management (NIDM), New Delhi	Member
3.	Dr. Akhilesh Mishra, Scientist DST, GoI, New Delhi	Member
4.	Dr. D Ram Rajak, Scientist & Head Geoscience Division, SAC. ISRO	Member
5.	Prof. Manoj Kumar, Department of Environmental Sciences, CUJ	Dean, Academic Affairs
6.	Dr. Bikash Ranjan Parida, Assistant Professor, Department for Geoinformatics, CUJ	Member
7.	Dr. C. S. Dwivedi, Assistant Professor, Department for Geoinformatics, CUJ	Member
8.	Dr. Bhaskar Singh, Assistant Professor, Department of Environmental Sciences, CUJ	Member
9.	Dr. S. K. Samdarshi, Professor, Department of Energy Engineering, CUJ	Member
10.	Dr. Shashi Mishra Assistant Professor, Department of far East Languages (Korean), CUJ	Member
11.	Dr. Amit Kumar Assistant Professor/Coordinator, Department for Geoinformatics, CUJ	invitee
12.	Dr. Kanhaiya Lal Assistant Professor, Department for Geoinformatics, CUJ	invitee

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Chairperson Prof. A.C. Pandey has welcomed all the members and briefed about the activities and progress of the Department. The Board of Studies (BOS, DGI) unanimously resolved the followings:

### A. Revision and approval of Existing 2 years M.Sc Geoinformatics course structure as per NEP

<b>Agenda A.1</b>  <b>DGI/BOS/2021/01</b>	<p>Revision in the course structure of M.Sc. (Geoinformatics) as per the NEP and addition of MOOCS in I &amp; II semester. The Exit after one year will lead to Award of P.G. Diploma in Geoinformatics (Level-8 with 36-40 Credits). The Field Tour renamed to Field Tour and Report with 3 credits.</p> <p>Newly added Surveying paper in Semester-III (5 Credits with Theory &amp; Lab) by looking into inclusion of GATE Syllabus for 2022 under Geomatics Engineering.</p> <p>Dissertation-1/Mini Project is added in Semester-III (6 credits) which will be continued in Semester-IV as Dissertation-2 (21 Credits).</p>
<b>Resolution</b>	<ol style="list-style-type: none"> <li>1. BOS reviewed and approved the revision proposed in the existing syllabus of M.Sc. (Geoinformatics) in order to fit in accordance with NEP (EXIT Policy) and addition of Surveying and Dissertation-1/Mini Project.</li> <li>2. BOS approved the course structure of <b>M.Sc. in Geoinformatics (with Exit Policy)</b>.</li> </ol> <p><b>Annexure:</b> Course structure of M.Sc. (Geoinformatics) &amp; Surveying Syllabus.</p>

### Approval of new 5 years Integrated M.Sc Geoinformatics course structure as per NEP

<b>Agenda A.2</b>  <b>DGI/BOS/2021/02</b>	<p>The course structure of 5 years Integrated M.Sc Geoinformatics as per the NEP has been proposed. There are 5 Exits formulated as per the UGC Guidelines, namely Certificate in Geoinformatics (Level-5), Diploma in Geoinformatics (Level-6), B.Sc in Geoinformatics (Level-7), and B.Sc in Geoinformatics (Research) (Level-8), and M.Sc in Geoinformatics (Level-9). P.G. Diploma will be Awarded at Level-8 (36-40 Credits) for those taking later Entry at Semester 7 either with (a) B.Sc.(Geoinformatics) or (b) B.Sc. in allied disciplines* with Diploma in RS/GIS/Geoinformatics.</p> <p>Students completed the entire 10 semesters programme with in Department without any break will be awarded Integrated M.Sc. Geoinformatics (180-200 Credits). Else M.Sc. Geoinformatics in all other cases.</p> <p>* allied disciplines as Geography/Geology/Oceanography/Climatology/Meteorology/ Atmospheric Sciences /Agriculture/Forestry/Statistics/Computer Science/Civil Engineering</p>
<b>Resolution</b>	<ol style="list-style-type: none"> <li>1. BOS reviewed and approved the course structure of 5 years Integrated M.Sc Geoinformatics and the corresponding syllabus as per the NEP (EXIT Policy). However, the nomenclature of U.G degrees i.e., B.Sc (3yrs) and B.Sc (Research-4yrs) in Geoinformatics as per UGC guidelines need to be adopted as appear in due course before starting 5 years Integrated degree</li> <li>2. BOS approved the course structure and syllabus of <b>5 years Integrated M.Sc. in Geoinformatics (with Exit Policy)</b>.</li> <li>3. The BOS committee recommended to incorporate advance remote sensing (e.g. UAV, LIDAR), machine learning algorithms, and instrumentations for proposed course.</li> </ol> <p><b>Annexure:</b> Course structure of 5 years Integrated M.Sc. (Geoinformatics) &amp; Syllabus</p>

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### Revision and approval of proposed 2 years M.Sc Disaster Management course structure as per NEP

<b>Agenda A.3</b>  <b>DGI/BOS/2021/03</b>	<p>Revision in the course structure of M.Sc. (Disaster Management) as per the NEP and addition of MOOCS in I &amp; II semester. The Exit after one year will lead to Award of P.G. Diploma in Disaster Management (Level-8 with 36-40 Credits). The Field Tour renamed to Field Tour and Report with 3 credits.</p> <p>Dissertation-1/Mini Project is added in Semester-III (6 credits) which will be continued in Semester-IV as Dissertation-2 (21 Credits).</p>
<b>Resolution</b>	<ol style="list-style-type: none"> <li>BOS reviewed and approved the revision proposed in the existing syllabus of M.Sc. (Disaster Management) in order to fit in accordance with NEP (EXIT Policy) and addition of Dissertation-1/Mini Project.</li> <li>BOS approved the course structure and syllabus of <b>M.Sc. in Disaster Management (with Exit Policy)</b>.</li> <li>The BOS committee recommended to incorporate disaster management guidelines, urbanization and climate change for proposed course. Furthermore, Prof. S. Prakash granted to provide facility for dissertation and internship at NIDM.</li> <li>The BOS committee recommended for 6 months vocational course in Disaster Management.</li> </ol> <p><b>Annexure:</b> Course structure of M.Sc. (Disaster Management)</p>

### Revision in Syllabus

<b>Agenda A.4</b>  <b>DGI/BOS/2021/04</b>	<p><b>A minor revision in syllabus in Cartography &amp; Global Positioning System paper.</b></p>
<b>Resolution</b>	<p>BOS approved the minor revision proposed in the existing syllabus of M.Sc. (Geoinformatics).</p> <p><b>Annexure</b></p>

### B. Award of PhD Degree to Department Research Scholar

<b>Agenda B.1</b> <b>DGI/BOS/2021/05</b>	<b>Information regarding Award of of PhD Degree to Department Research Scholar.</b>			
<b>Resolution</b>	BOS reviewed the list and approve the same.			
	<b>Sl no.</b>	<b>Name</b>	<b>Topic</b>	<b>Year of Award</b>
	1	Basheer Ahmad KK	Analysis of Spatio temporal dynamics of coastlines and socio physical vulnerability under climate variability and extreme events in eastern coast of India	2020
	2	Tauseef Ahmad	Geoinformatics based flood hazard and risk assessment in Kashmir Valley, (J&K), India	2021
	3	Binita Kumari	Spatio temporal forest cover mapping in Palamu tiger reserve forest using earth observing satellite	2021
	4	Saurabh Kumar Gupta	Forest change and fragmentation using advance geospatial techniques in Hazaribagh wildlife sanctuary in Jharkhand	Viva Awaited

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**C. Admissions**

<b>Agenda C.1</b> DGI/BOS/2021/06	<b>Approval of admission of students in PhD. Geoinformatics</b>
<b>Resolution</b>	BOS reviewed the list of three student admission in PhD Geoinformatics (2020-21) and approve the same. <ol style="list-style-type: none"><li>1. Kavita Kaushik (2020-21)</li><li>2. Manjari Upreti (2020-21)</li><li>3. Neha Pandey (2020-21)</li></ol>

<b>Agenda C.2</b> DGI/BOS/2021/07	<b>Approval of admission of students in M.Sc. Geoinformatics</b>
<b>Resolution</b>	BOS reviewed the list of admission in MSc Geoinformatics (2020-21) and approve the same. <b>Annexure</b>

**D. Award of Degree to Int. M. Tech and M.Sc.(Geoinformatics):**

<b>Agenda D.1</b> DGI/BOS/2021/08	<b>Award of degree of Integrated M.Tech Geoinformatics to 2016-21 Batch Students</b>
<b>Resolution</b>	BOS recommended that the Batch of 2016-21 students be awarded Integrated M.Tech Geoinformatics. <b>Annexure</b>

<b>Agenda D.2</b> DGI/BOS/2021/09	<b>Award of degree of M.Sc Geoinformatics to 2019-21 Batch Students</b>
<b>Resolution</b>	BOS recommended that the Batch of 2019-21 students be awarded M.Sc Geoinformatics. <b>Annexure</b>

**E. Approval of synopsis of PhD Scholars and RAC Members**

<b>Agenda E.1</b> DGI/BOS/2021/10	<b>Approval of synopsis of PhD Scholars admitted in 2020-21</b>
<b>Resolution</b>	The following three PhD Scholars have presented PhD Synopsis on <b>14<sup>th</sup> September 2021</b> before their respective RAC.

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Sl no.	Name	Topic	Year of Admission
1	Kavita Kaushik	Flood and drought hazard-vulnerability and risk assessment in context to climate change in Ganga-Brahmaputra valley using Geoinformatics	2020-21
2	Manjari Upreti	Urban Ecological Hazard-Risk Assessment Through Analysing Local Climate Zones and Landscape Modelling of Green Spaces in Delhi-National Capital Region	2020-21
3	Neha Pandey	Wildlife habitat characteristics and human-animal conflict focusing leopard and sloth bear in Palamu Tiger Reserve and Palkot Wildlife Sanctuary, Jharkhand (India)	2020-21
BOS reviewed the PhD Synopsis and approved the same.			

Agenda E.2	Confirmation of RAC members for PhD Research Scholars admitted in 2020-21												
DGI/BOS/2021/11													
Resolution	<p>BOS approved the RAC members as given by CoE office.</p> <table><tr><th>Sl no.</th><th>Name</th><th>RAC Members</th></tr><tr><td>1</td><td>Kavita Kaushik</td><td>1. Dean, SNRM, Chairman 2. Prof. A.C. Pandey, Supervisor 3. Dr. Bhasker Singh, External 4. Dr. Kanhaiya Lal, Member</td></tr><tr><td>2</td><td>Manjari Upreti</td><td>1. Dean, SNRM, Chairman 2. Dr. Amit Kumar, Supervisor 3. Dr. B.R. Parida, Member 4. Dr. Purabi Saikia, External</td></tr><tr><td>3</td><td>Neha Pandey</td><td>1. Dean, SNRM, Chairman 2. Prof. A.C. Pandey, Member 3. Dr. C.S. Dwivedi- Supervisor 4. Dr. Sushil Shukla, External</td></tr></table>	Sl no.	Name	RAC Members	1	Kavita Kaushik	1. Dean, SNRM, Chairman 2. Prof. A.C. Pandey, Supervisor 3. Dr. Bhasker Singh, External 4. Dr. Kanhaiya Lal, Member	2	Manjari Upreti	1. Dean, SNRM, Chairman 2. Dr. Amit Kumar, Supervisor 3. Dr. B.R. Parida, Member 4. Dr. Purabi Saikia, External	3	Neha Pandey	1. Dean, SNRM, Chairman 2. Prof. A.C. Pandey, Member 3. Dr. C.S. Dwivedi- Supervisor 4. Dr. Sushil Shukla, External
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3	Neha Pandey	1. Dean, SNRM, Chairman 2. Prof. A.C. Pandey, Member 3. Dr. C.S. Dwivedi- Supervisor 4. Dr. Sushil Shukla, External											

**F. Nomenclature of Department/School Name to incorporate wider perspectives:**

<b>Agenda F.1</b> <b>DGI/BOS/2021/12</b>	<b>Approval of Nomenclature of Department Name</b>				
<b>Resolution</b>	<p>BOS discussed the existing various Department names within India and their respective Schools names. In brief, some of the existing Central University with similar department as in CUJ, has the structure as given below.</p> <table> <tr> <td><b>Central University of Rajasthan and Karnataka</b></td><td> <b>School of Earth Sciences</b> <ul style="list-style-type: none"> <li>Department of Atmospheric Science</li> <li>Department of Environmental Science</li> </ul> </td></tr> <tr> <td><b>Central university of Punjab</b></td><td> <b>School of Environment and Earth Sciences</b> <ul style="list-style-type: none"> <li>Department of Environmental Science and Technology</li> <li>Department of Geography</li> <li>Department of Geology</li> </ul> </td></tr> </table>	<b>Central University of Rajasthan and Karnataka</b>	<b>School of Earth Sciences</b> <ul style="list-style-type: none"> <li>Department of Atmospheric Science</li> <li>Department of Environmental Science</li> </ul>	<b>Central university of Punjab</b>	<b>School of Environment and Earth Sciences</b> <ul style="list-style-type: none"> <li>Department of Environmental Science and Technology</li> <li>Department of Geography</li> <li>Department of Geology</li> </ul>
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<b>Central university of Punjab</b>	<b>School of Environment and Earth Sciences</b> <ul style="list-style-type: none"> <li>Department of Environmental Science and Technology</li> <li>Department of Geography</li> <li>Department of Geology</li> </ul>				

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	<table border="1" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;"><b>Central University of Jharkhand</b></td><td style="width: 50%;"> <b>School of Natural Resource Management</b> <ul style="list-style-type: none"> <li>Department of Environmental Science</li> <li>Department of Geoinformatics</li> <li>Department of Geography</li> <li>Department of Geology (<b>Proposed for 5 years Integrated B.Sc/M.Sc.</b>)</li> <li>Department of Disaster Management (<b>proposed with 2 years MSc.</b>)</li> </ul> </td></tr> </table>	<b>Central University of Jharkhand</b>	<b>School of Natural Resource Management</b> <ul style="list-style-type: none"> <li>Department of Environmental Science</li> <li>Department of Geoinformatics</li> <li>Department of Geography</li> <li>Department of Geology (<b>Proposed for 5 years Integrated B.Sc/M.Sc.</b>)</li> <li>Department of Disaster Management (<b>proposed with 2 years MSc.</b>)</li> </ul>
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	<ol style="list-style-type: none"> <li><b>BOS member accepted the proposed renaming of the Dept. of Geoinformatics to Dept. of Earth Sciences</b>, however BOS expressed the opinion since several institutes/University in India had name similar to Department of Geoinformatics, the same name can be continued by looking into emergence of new domain as identified by IGNOU and introduced first time in GATE syllabus 2022.</li> <li>BOS member also suggested that the Department Name of Geoinformatics can remain the same until the Department of Geology is introduced.</li> <li>They also expressed their willingness to change the School name from present <b>School of Natural Resource Management (SNRM) to School of Environment and Earth Sciences (SEES) as per University norms</b>. Such a change in School name will go better with the department's name of existing Environmental Sciences and proposed Earth Sciences.</li> </ol>		

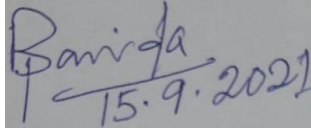
### G. Any other Agenda:

<b>Agenda G.1</b>	<b>Expert committee for the proposed Geology course (B.Sc/M.Sc)</b>
DGI/BOS/2021/13	
<b>Resolution</b>	<p>BoS approved the list of members suggested for creation of Expert committee for the proposed Geology course (B.Sc/M.Sc). BoS member suggested to constitute 8 member Expert Committee in order of sequence given below.</p> <ol style="list-style-type: none"> <li>Prof. C.S Dubey (Former Head, Delhi University, Professor Emritus, Sri Sri Univ, Kattuck, Orissa )</li> <li>Prof. Bijay Singh, Dept. of Geology, Ranchi University</li> <li>Prof. Sandeep Singh, Dept. Earth Sciences, IIT Roorkee</li> <li>Prof. P.K Kathal, Dept. Applied Geology, Dr. H.S. Gour Central University, Sagar</li> <li>Prof. S. Mitra, Dept. Earth Sciences, IISER Kolkata</li> <li>Prof. Atul Verma, Dept. Applied Geology, ISM Dhanbad</li> <li>Prof. Pramod K. Verma, Former VC BHU</li> <li>Prof. P.K Srivastava, Dept. of Geology, Univ. of Jammu</li> <li>Prof. Vikarant Jain, Earth Science , IIT Gandhinagar</li> <li>Prof. H K Pandey, Department of Civil Engineering MNNIT, Allahabad</li> <li>Prof. M Joshi, Dept. of Geology, BHU</li> <li>Prof. S.P Sharma, Dept. of Geology and Geophysics, IIT Kharagpur</li> </ol>

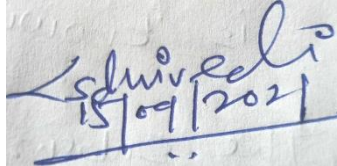
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H. The relevant recommendations may be submitted before the concerned Board of School (SNRM) and Academic Council (AC).

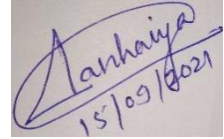
The meeting concluded with a vote of thanks.



(Bikash R. Parida)  
Asst. Professor, DGI, CUJ



(CS Dwivedi)  
Asst. Professor, DGI, CUJ



(Kanhaiya Lal)  
Asst. Professor, DGI, CUJ



(B. Singh)  
Asst. Professor, DEVS CUJ



(Amit Kumar)  
Asst. Professor, DGI, CUJ



(S. Mishra)  
Asst. Professor, DFEL, CUJ



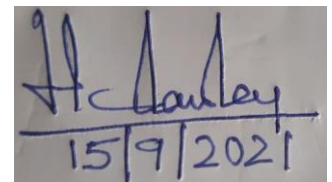
(D. Ram Rajak)  
SAC, ISRO

(Prof. Manoj Kumar)  
DEVS, CUJ  
Dean, Academic Affairs



(Prof. Surya Prakash)  
NIDM, New Delhi

(Akhilesh Mishra)  
DST, GoI, New Delhi



(Prof. A.C. Pandey)  
Department of Geoinformatics  
Dean, School for Natural Resource Mgmt.  
Convener & Chairperson Ex-Officio



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**Annexure**

**Confirmation of Admission of Students in 2 years M.Sc Geoinformatics during 2020-21**

Sl no.	Registration Number	Name
1	20260402001	Abha Bhengra
2	20260402002	Abhijit Sarkar
3	20260402003	Anusree Samanta
4	20260402004	Bishal Kanu
5	20260402005	Biswabhusan Das**
6	20260402006	Imran SK
7	20260402007	Kisku Godwin John*
8	20260402008	Kumar Hrishikant
9	20260402009	Md Sahid Nur
10	20260402010	Pampattiwar Shivateja
11	20260402011	Raju Mondal*
12	20260402012	Rana Mondal
13	20260402013	Rashmita Barik**
14	20260402014	Rasika Sanjay Jadhav
15	20260402015	Renu**
16	20260402016	Shivangi Tiwari
17	20260402017	Siddharth Swain**
18	20260402018	Subhrajyoti Saha
19	20260402019	Tirthankar Ghosh
20	20260402020	Trinath Mahato
21	20260402021	Tushar Barik
22		Manjar Alam*
23		Rimpi Moni Das*
24		Rocktim Sarma*
25		Rohit Kumar*

\* Student left the course during 1st semester

\*\* Student left the course during 2nd semester

**Confirmation of Award of Integrated M.Tech Geoinformatics Degree to 2016-21 Batch Students**

Sl no.	Registration Number	Name
1	CUJ/I/2016/IGEO/01	Sandeep Kumar
2	CUJ/I/2016/IGEO/04	S. Aadithya
3	CUJ/I/2016/IGEO/06	Preetam Kumar
4	CUJ/I/2016/IGEO/09	Poulami Das
5	CUJ/I/2016/IGEO/11	Tannu Priya
6	CUJ/I/2016/IGEO/12	Sourav Kumar
7	CUJ/I/2016/IGEO/13	Abishek.M
8	CUJ/I/2016/IGEO/14	Moumita Marandi
9	CUJ/I/2016/IGEO/15	Rahul Kashyap
10	CUJ/I/2016/IGEO/16	Arunik Baruah



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11	CUJ/I/2016/IGEO/19	Rajeev Kumar
12	CUJ/I/2016/IGEO/23	Anshu Kumari
13	CUJ/I/2016/IGEO/24	Munizzah Salim
14	CUJ/I/2016/IGEO/25	Sheetal Kumari
15	CUJ/I/2016/IGEO/26	Shashank Bhaskar
16	CUJ/I/2016/IGEO/27	Paras Kumar
17	CUJ/I/2016/IGEO/28	Rahul Choudhary
18	CUJ/I/2016/IGEO/29	Raj Kumar Mahato
19	CUJ/I/2016/IGEO/30	Wasim
20	CUJ/I/2016/IGEO/32	Amarjeet Kr Mahato
21	CUJ/I/2016/IGEO/34	Dharmendra Kumar
22	CUJ/I/2016/IGEO/35	Vishwanath Kumhar
23	CUJ/I/2016/IGEO/36	Soumi Misra
24	CUJ/I/2016/IGEO/37	Mangi Bharath
25	CUJ/I/2016/IGEO/38	Gaurav Pal
26	CUJ/I/2016/IGEO/39	Shubham Bhattacharjee
27	CUJ/I/2016/IGEO/40	Debosmita Nandi

**Confirmation of Award of 2 Years M.Sc Geoinformatics Degree to 2019-21 Batch Students**

Sl no.	Registration Number	Name
1	19260402001	Abhikrishnan G
2	19260402002	Abhishek Kishor Gupta
3	19260402003	Akash Kumar Chakraborty
4	19260402004	Amit Raj
5	19260402005	Aniket Chakraborty
6	19260402007	Chinmaya Kumar Sahu
7	19260402008	Debajit Deka
8	19260402009	Jassi Sharma
9	19260402010	Manoj Kumar Munda
10	19260402011	Mosaraf Hossain
11	19260402012	Priyanka Dalnayak
12	19260402013	Purna Patel
13	19260402014	Ramesh Mahto
14	19260402015	Reshmi Bodra
15	19260402016	Saroj Tuti
16	19260402017	ShikhantSatyansh
17	19260402018	Shoaib Rassel
18	19260402019	Shubham Kumar Paswan
19	19260402020	Sudipta Hansda
20	19260402001	Abhikrishnan G

### New paper: Surveying Syllabus

**UNIT I:** Surveying measurements, Accuracy, Precision, Most probable value, Errors and their adjustments. plane and geodetic surveying; classification of surveying; basic principles; measurement of horizontal distance by conventional methods; Levelling: definition of terms; levelling principle; levelling instruments; types of spirit levelling; methods of booking and reduction of levels; sensitiveness of level tube; errors in levelling; curvature and refraction correction.

**UNIT II:** Compass Survey: introduction; types of bearings and Compasses; conversion of bearings; magnetic declination. Theodolite Traversing: introduction, types of theodolite; definitions of terms; temporary and permanent adjustments; measurement of horizontal angles, methods of repetition and reiteration, measurement of vertical angles; traverse measurement and computation of coordinates; omitted measurements.

**UNIT III:** Plane Table Surveying: instruments employed in plane table survey, working operation like fixing, levelling, centering and orientation, methods of orientation, various methods of plane table survey; errors in plane table survey. Tacheometry: introduction and importance; stadia and tangential methods; use of subtense bar. Contouring: importance, contour interval; characteristics; direct and indirect methods; uses of contours.

**UNIT IV:** Area and Volume Computation: computation of area by different methods; estimation of volume of earthwork by means of sections and contour lines. Reconnaissance, preliminary and detailed Survey for canals, highways, railways, sewer lines

**UNIT V:** Modern surveying: Electronic Distance Measurement (EDM) Instruments (Tellurometer, Geodimeter, Distomats), Electronic Theodolite and Total Station and their usages, Digital levels and usages, Trilateration and GPS.

### RECOMMENDED READINGS

- Surveying and Leveling, T. P. Kanetkar and S.V.Kulkarni Vol.1 & 2, Vidhyarthi Griha, Prakashan, Pune.
- Surveying, B. C. Punmia and Jain Vol.1 , 2 & 3 Laxmi Publications, New Delhi
- Surveying-Bannister, Raymond and Baker, Pearson Education
- Surveying, S. K. Duggal Vol 1&2, Tata McGraw Hill Publications, New Delhi.
- Advanced Surveying, S. Gopi, R.Satikumar and N.Madhu, Pearson Education
- Higher Surveying, A. M. Chandra, New Age International Publication.

### Revision in Syllabus for Cartography & Global Positioning System

GNSS - Principle used, Components of GNSS, Data collection methods, DGPS, Errors in observations and corrections.

## Re: Minutes of the meeting of DGI BoS

From: Manoj Kumar (manoj.kumar@cuja.ac.in)

To: bhaskar.singh@cuja.ac.in

Cc: arvindchandrap@yahoo.com; cshekhargeog@gmail.com; bikashrp@gmail.com; jnu.kanhaiya@gmail.com; amit.kumar@cuja.ac.in; shashi.mishra@cuja.ac.in; drsksamdarshi@rediffmail.com

Date: Thursday, 16 September 2021, 17:31 GMT+5:30

Sir

As I was invited as Dean, Academic Affairs, I agree with the minute with suggestion in the agenda relating renaming of School, it may be written as:

Members are agreed with the proposal to rename it as School of Earth and Environmental System in wider aspect and matter may be placed before competent authority for discussion and consideration in future, if agree with proposal.

Others are OK.

Manoj

On Thu, Sep 16, 2021, 16:57 Bhaskar Singh <[bhaskar.singh@cuja.ac.in](mailto:bhaskar.singh@cuja.ac.in)> wrote:

Dear Sir,

I have incorporated my e-signature in the document (attached herewith).

Kindly, let me know if anything else is needed from my side.

Regards  
Bhaskar Singh

On Thu, Sep 16, 2021 at 4:34 PM Arvind Chandra Pandey <[arvindchandrap@yahoo.com](mailto:arvindchandrap@yahoo.com)> wrote:

Dear All

Pls find the minutes of the meeting of BoS of Dept of Geoinformatics for your kind perusal and approval.

It will be convenient for us to have your signature on the the minutes at designated place so that final signed documents be sent to External members for the approval and signature by today itself as it will be presented tomorrow in School Board meeting.

It will be better if u can send ur signature by WA message immediately to undersigned so that it can be incorporated directly in main document.

With Kind Regards,

**A.C. Pandey, Ph.D.**  
Prof. Department of Geoinformatics  
DEAN SNRM  
Central University of Jharkhand,  
Brambe- 835205, INDIA.  
Tel: +91-9955492100,  
web:[www.cuja.ac.in](http://www.cuja.ac.in)

--

With warm Regards

Dr. Bhaskar Singh  
Assistant Professor  
Department of Environmental Sciences  
Central University of Jharkhand  
Ranchi 835 205  
Jharkhand, India

E-Mail: <[bhaskarsingh53@gmail.com](mailto:bhaskarsingh53@gmail.com)> <[bhaskar.singh@cuja.ac.in](mailto:bhaskar.singh@cuja.ac.in)>  
Phone: +91-8292513945

ORCID: 0000-0001-6253-4145  
Researcher ID: R-5790-2018  
Vidwan-ID: 108432  
Scopus ID: 35068622800

<https://cuja.irins.org/profile/108432>  
[https://www.researchgate.net/profile/Bhaskar\\_Singh](https://www.researchgate.net/profile/Bhaskar_Singh)  
<https://www.scopus.com/authid/detail.uri?authorId=35068622800>  
<https://scholar.google.co.in/citations?user=rDRbc4cAAAAJ&hl=en>

## Re: Minutes of the meeting of DGI BoS

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From: S K samdarshi (drksamdarshi@rediffmail.com)

To: arvindchandrap@yahoo.com

Cc: manoj.kumar@cuja.ac.in; cshekhargeog@gmail.com; bikashrp@gmail.com; jnu.kanhaiya@gmail.com; amit.kumar@cuja.ac.in; shashi.mishra@cuja.ac.in; bhaskar.singh@cuja.ac.in

Date: Thursday, 16 September 2021, 19:56 GMT+5:30

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I approve the minutes of the meeting.

Samdarshi

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Prof S K Samdarshi  
Department of Energy Engineering  
Coordinator and PI, Centre of Excellence in Green  
and Efficient Energy Technology(CoE-GEET)  
Central University of Jharkhand  
Ranchi 835205, Jharkhand  
Contact: +91 9431107270(P)  
+91 9471369553(P)  
E-mail:drksamdarshi@rediffmail.com

From: Arvind Chandra Pandey <arvindchandrap@yahoo.com>

Sent: Thu, 16 Sep 2021 16:34:26 GMT+0530

To: Manoj Kumar <manoj.kumar@cuja.ac.in>, Chandra Shekhar Dwivedi <cshekhargeog@gmail.com>, Bikash Parida <bikashrp@gmail.com>, "Dr. Kanhaiya Lal" <jnu.kanhaiya@gmail.com>, "Dr. Amit Kumar" <amit.kumar@cuja.ac.in>, Shashi Mishra <shashi.mishra@cuja.ac.in>, "S. K. Samdarshi" <drksamdarshi@rediffmail.com>, Bhaskar Singh <bhaskar.singh@cuja.ac.in>

Subject: Minutes of the meeting of DGI BoS

Dear All

Pls find the minutes of the meeting of BoS of Dept of Geoinformatics for your kind perusal and approval.

It will be convenient for us to have your signature on the the minutes at designated place so that final signed documents be sent to External members for the approval and signature by today itself as it will be presented tommorrow in School Board meeting.

It will be better if u can send ur signature by WA message immediately to undersigned so that it can be incorporated directly in main document.

With Kind Regards,

**A.C. Pandey, Ph.D.**

Prof. Department of Geoinformatics  
DEAN SNRM  
Central University of Jharkhand,  
Brambe- 835205, INDIA.  
Tel: +91-9955492100,  
web:[www.cuja.ac.in](http://www.cuja.ac.in)

## Re: Minutes of the meeting of DGI, BoS

---

From: Dr. AKHILESH MISHRA (akhilesh.mishra@nic.in)

To: arvindchandrap@yahoo.com

Cc: spnidm@gmail.com; rajakdr@sac.isro.gov.in

Date: Friday, 17 September 2021, 12:54 GMT+5:30

---

Dear Sir,  
Thanks for ur e-mail.

It is OK. Agreed.

Regards,

---

**From:** arvindchandrap@yahoo.com

**To:** spnidm@gmail.com, rajakdr@sac.isro.gov.in, "Dr. AKHILESH MISHRA" <akhilesh.mishra@nic.in>

**Sent:** Thursday, September 16, 2021 8:52:56 PM

**Subject:** Minutes of the meeting of DGI, BoS

Dear Sir,

Please find attached the Minutes of the meeting of DGI, BoS which was held on 15 Sept. 2021. The corresponding Annexure are also attached. You are requested to sign the MoM at the place indicate at the end over your name as this will complete the the MoM.

You can also approve the MoM by replying to this mail, that will also be considered, in case u donot want to share your signature in word file. We will finally make the pdf of MoM after all signature made.

The MoM duly approved by all External BoS member will be placed in the School Board Meeting to be held tomorrow at 11 am onwards. Therefore you are requested to approve the MoM at the earliest possible.

Pls note that in the signed MoM, Prof. Manoj Kumar and Prof. S K Samdarshi have given consent in email and their signature will also be taken in person.

With Kind Regards,

**A.C. Pandey, Ph.D.**

**DEAN SNRM**

Prof. Department of Geoinformatics

Central University of Jharkhand,

Brambe- 835205, INDIA.

Tel: +91-9955492100,

web:[www.cuj.ac.in](http://www.cuj.ac.in)



With Kind Regards,

With Kind Regards,

Akhilesh

=====

Dr. Akhilesh Mishra  
Scientist 'E'  
OSD (Budget) & Data Officer  
Data & Strategy Unit (DSU)  
Technology Development Programme  
Department of Science & Technology  
Ministry of Science & Technology  
Technology Bhavan  
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☎ ::+91-11-26590254 (Ext:- 254)  
Email:akhilesh.mishra@nic.in

You can also follow us on

F: @IndiaDST Or [www.facebook.com/IndiaDST](https://www.facebook.com/IndiaDST)

T: @IndiaDST Or [www.twitter.com/IndiaDST](https://www.twitter.com/IndiaDST)

