

# **Departmental Activity 2019-20(GEOLOGY)**

## **1. Teacher's day celebration**

On 5<sup>th</sup> sept 2019 a function was organised in the deptt by students .



## **2 Swachh Bharat Abhiyan**

Glimpses of activities conducted by faculty & students under swachh bharat abhiyan



### **3.Inter institutional knowledge exchange activity**

Department organizes regular interinstitutional knowledge exchange program .



Students & faculty of govt Chhattisgarh college visiting Geology museum (14-11-2019)

## 4. Skill development on surface geophysical investigation

Date of Event: (4<sup>th</sup> nov2019-8<sup>th</sup> nov2019) RGI, RAIPUR

Context: New techniques in ground water studies  
Objective: Practical training in geophysical exploration  
Activity: Presentation, practical training on classroom & data check on field  
Evidences: Photographs. Attached  
Impact Analysis: a) **Learning outcome-** expertise in the field of exploration for groundwater investigation  
b) **Beneficiary:** Students of M.Sc. Geology





## 5. Geological Field training of M.Sc. II Sem. students In GSI under Bhuvismvad project (10<sup>th</sup>-15<sup>th</sup> feb 2020)

Context:	Geology is a field science so field studies and trainings are essential.
Objective:	Field work helps students to identify rocks, and structures.
Activity:	Practical training on field and samples collected from various locations.
Evidences:	Photographs. Attached
Impact Analysis:	a) <b>Learning outcome-</b> Students were given hands on training how to measure attitude of various geological features b) <b>Beneficiary:</b> All Students of M.Sc. IInd Sem.





## 6. Project work of M.Sc. IV Sem. Geology students In Malanjkhand Copper Mines (17<sup>th</sup> Feb-2<sup>nd</sup> March 2020)

Context:	Geology is a field science, so project oriented field studies are essential.
Objective:	Field work helps students to identify different geological problems. It enhances the research capabilities of the student.
Activity:	Practical training on mineral exploration, mining methods, ore reserve calculations, environmental impact assessment has been carried out.
Evidences:	Photographs. Attached
Impact Analysis:	a) <b>Learning outcome</b> - Students were given training on different aspects of exploration, and mining. It will help to get job in mining industry. b) <b>Beneficiary</b> : <b>04</b> students of M.Sc. IV <sup>nd</sup> Sem.



## 7. Project Work of M.Sc. IV Sem. Geology in Bacheli Iron Ore Mines, Distt. Dantewada. (10<sup>th</sup> Feb-24<sup>th</sup> Feb2020)

Context:	Geology is a field science, so project oriented field studies are essential.
Objective:	Field work helps students to identify different geological problems. It enhances the research capabilities of the student.
Activity:	Practical training on mineral exploration, mining methods, ore reserve calculations, environmental impact assessment has been carried out.
Evidences:	Photographs. Attached
Impact Analysis:	<b>a) Learning outcome-</b> Students were given training on different aspects of exploration, and mining. It will help to get job in mining industry. <b>b) Beneficiary:</b> 07 students of M.Sc. IVnd Sem.





## 8. Projectwork of M.Sc. IV Sem. Geology In Bodai Daldali Bauxite mines (10<sup>th</sup>-23<sup>rd</sup> Feb 2020)

Context:	Geology is a field science, so project oriented field studies are essential.
Objective:	Field work helps students to identify different geological problems. It enhances the research capabilities of the student.
Activity:	Practical training on mineral exploration, mining methods, ore reserve calculations, environmental impact assessment has been carried out.
Evidences:	Photographs. Attached
Impact Analysis:	<b>a) Learning outcome-</b> Students were given training on different aspects of exploration, and mining. It will help to get job in mining industry. <b>b) Beneficiary:</b> 07 students of M.Sc. IV <sup>nd</sup> Sem.





## 9. Projectwork of MSc IV SEM. Geology in Nandini dolomites mines(26<sup>th</sup> feb-8<sup>th</sup> march2020)

Context :	Geology is a field science, so project oriented field studies are essential.
Objective:	Field work helps students to identify different geological problems. It enhances the research capabilities of the student.
Activity:	Practical training on mineral exploration, mining methods, ore reserve calculations, environmental impact assessment has been carried out.
Evidences:	Photographs. Attached
Impact Analysis:	a) <b>Learning outcome-</b> Students were given training on different aspects of exploration, and mining. It will help to get job in mining industry. b) <b>Beneficiary:</b> 07 students of M.Sc. IVnd Sem.





# Departmental Activity 2018-19

## 1. Inaugural function of geological society

Inaugural function of geological society was organized in College Auditorium on 7<sup>th</sup> September 2018. **Mr. Yogesh Pandey, Director, Geological Survey of India, Raipur** was invited as guest of honor. Principal Dr D.N. Varma was also present.



The programme was commenced with goddess Saraswati Vandana, followed by welcome of chief guest and Principal. Addressing the gathering, Dr Rajeeva Guhey, In Charge Prof. & Head, Geology, introduced chief guest Mr. Yogesh Pandey, who was Alumni of Geology Department of Geology of our College.



After introduction Dr Guhey announced the formation of Geological Society and informed the nomination of four students for academic activities during 2018-19, President- Ku, Chameli Patel, Vice President- Badal Sahu, Secretary- Sujal Varma B.Sc. Final Jt Secretary- Ku. Sristi Tiwari, B.Sc. II.



Then he invited Chief Guest for his key note address on **“Activities of Geological Survey of India (GSI) with special reference to mineral resources of Chhattisgarh.”**



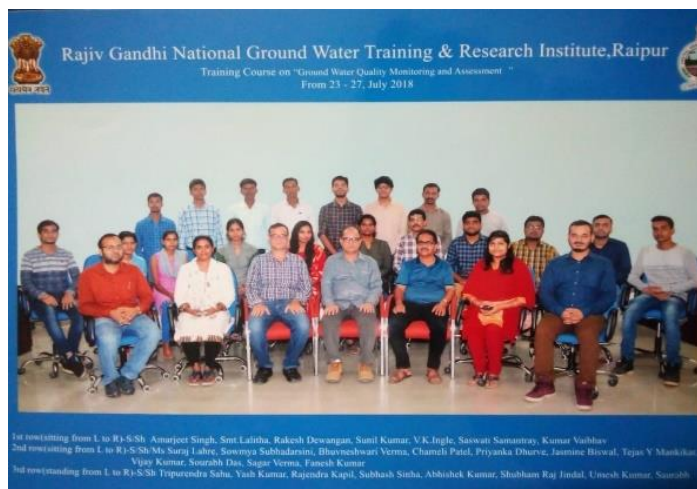
In his key note address on the topic, Sri Yogesh Pandey informed that the Geological Survey of India (GSI) was set up in 1851 primarily to find coal deposits for the Railways. The arrival of Sir Thomas Oldham, Professor of Geology at Trinity College Dublin, marked the beginning of the Geological Survey of India. The main functions of GSI relate to creation and updation of national geoscientific information and mineral resource assessment. These objectives were achieved through ground surveys, air-borne and marine surveys, mineral prospecting and investigations, multi-disciplinary geo-scientific, geo-technical, geo-environmental and natural hazards studies, glaciology, seismo-tectonic study, and carrying out fundamental research. Outcome of work of GSI has enormous societal value.

Sri Pandey further informed that the head-office of GSI is established at Kolkata. There are six Regional offices located at Lucknow, Jaipur, Nagpur, Hyderabad, Shillong and Kolkata and State Unit offices in almost all States of the country. Presently, Geological Survey of India is an attached office to the Ministry of Mines. With his vast field experience, Sri Pandey described the stratigraphy and mineral wealth particularly Iron, Bauxite, Limestone, Coal, Diamond Gold deposits of Chhattisgarh. In the last Sri Pandey explained a newly launched Bhuvismavd project, of Ministry of Mines, Government of India aiming at exchange of knowledge and expertise between GSI and various academic institutions having Geology subject in UG and PG. The programme was conducted by Ku S. Satyarthi and the vote of thanks was given by Prof. Pradeep Thakur

## 2. Skill Development on Quality Monitoring and Assessment

Date of Event: (23<sup>rd</sup> July-27<sup>th</sup> July 2018)

Context:	New techniques in ground water studies
Objective:	Practical training in remotesensing & GIS
Activity:	Presentation, practical training on classroom & data check on field
Evidences:	Photographs. Attached
Impact Analysis:	a) <b>Learning outcome-</b> expertise in the field of remotesensing & GIS for groundwater studies. b) <b>Beneficiary:</b> Students of M.Sc. Geology



### 3. Skill Development on Geophysical Techniques in Ground Water Studies

Date of Event: (4<sup>th</sup> Feb -15<sup>th</sup> Feb 2019)

Context: New techniques in ground water studies  
Objective: Practical training in remotesensing & GIS  
Activity: Presentation, practical training on classroom & data check on field  
Evidences: Photographs. Attached  
Impact Analysis: a) **Learning outcome-** expertise in the field of remotesensing & GIS for groundwater studies.  
b)**Beneficiary:** Students of M.Sc. Geology





#### 4. Geological Field training of M.Sc. II Sem. students In GSI under Bhuvismvad project (18-23 FEB 2019)

Context: Geology is a field science so field studies are essential.  
Objective: Field work helps students to identify rocks, and structures.  
Activity: Practical training on field and samples collected from various locations.  
Evidences: Photographs. Attached  
Impact Analysis: a) **Learning outcome-** Students were given hands on training how to measure attitude of various geological features  
b) **Beneficiary:** M.Sc. IInd Sem students.

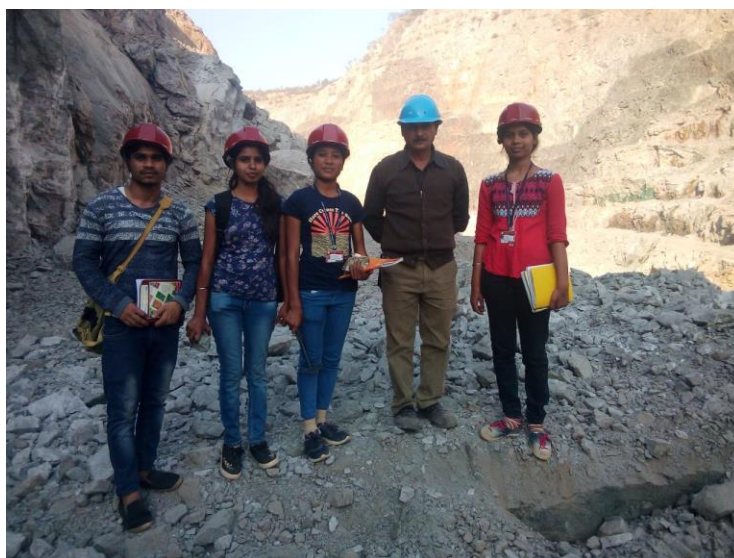






## 5. Project work of M.Sc. IV Sem. Geology students In Malanjkhand Copper Mines (07<sup>th</sup> Feb-20<sup>th</sup> Feb 2019)

Context:	Geology is a field science, so project oriented field studies are essential.
Objective:	Field work helps students to identify different geological problems. It enhances the research capabilities of the student.
Activity:	Practical training on mineral exploration, mining methods, ore reserve calculations, environmental impact assessment has been carried out.
Evidences:	Photographs. Attached
Impact Analysis:	<b>a) Learning outcome-</b> Students were given training on different aspects of exploration, and mining. It will help to get job in mining industry. <b>b) Beneficiary:</b> M.Sc. IVnd Sem students.







## 6. Project Work M.Sc. IV Sem. Geology in Bacheli Iron Ore Mines, Distt. Dantewada. (11Feb-25Feb2019)

Context:	Geology is a field science, so project oriented field studies are essential.
Objective:	Field work helps students to identify different geological problems. It enhances the research capabilities of the student.
Activity:	Practical training on mineral exploration, mining methods, ore reserve calculations, environmental impact assessment has been carried out.
Evidences:	Photographs. Attached
Impact Analysis:	<b>a) Learning outcome-</b> Students were given training on different aspects of exploration, and mining. It will help to get job in mining industry. <b>b) Beneficiary:</b> M.Sc. IVnd Sem students.









## 7. Geological Field training M.Sc. IV Sem. Geology In TRB Iron Ore Mines ODISSA (6<sup>th</sup>-19<sup>th</sup> Feb 2019)

Context:	Geology is a field science, so project oriented field studies are essential.
Objective:	Field work helps students to identify different geological problems. It enhances the research capabilities of the student.
Activity:	Practical training on mineral exploration, mining methods, ore reserve calculations, environmental impact assessment has been carried out.
Evidences:	Photographs. Attached
Impact Analysis:	<b>a) Learning outcome-</b> Students were given training on different aspects of exploration, and mining. It will help to get job in mining industry. <b>b) Beneficiary:</b> M.Sc. IVnd Sem students.



## 8. Geological Excursion Trip B Sc Part III students

**Location: Rajim and Gangrel area (4th Feb 2019)**

Context: Geological excursion tour

Objective: Geology is a field science, and field training will help to identify various litho units, structures.

Activity: Field traversing and measurement of attitude of beds that is not possible in lab.

Evidences: Photographs. Attached

Impact Analysis: Students can analyze different geological problems and phenomenon.





## **9.Activity of Alumni Association**

A meeting of Alumni Organization was organized on 17<sup>th</sup> February 2019. A discussion was held amongst the members on how to generate funds and resources for the Geology department in order to provide resources for future batches to learn with better facilities.





## **10. Inter institutional knowledge exchange activity**

Department organizes regular interinstitutional knowledge exchange program



Students & faculty of govt Chhattisgarh college visiting Geology museum (31-10-2018)

# +Departmental Activity 2017-18

## 1. Project oriented Field training M.Sc. IV Sem. Geology In Bachel Iron Ore Mines (16<sup>th</sup> Jan-30<sup>th</sup> Jan 2018)

Context: Geology is a field science so field studies are essential.  
Objective: Field work helps students to identify rocks, and structures.  
Activity: Practical training on field and samples collected from various locations.  
Evidences: Photographs. Attached  
Impact Analysis: a) **Learning outcome-** Students were given hands on training how to measure, dip and strike from a dipping bed by clinometers.  
b) **Beneficiary:** M.Sc. IInd Sem students.





## 2. Project oriented Geological Field training M.Sc. IV Sem. Geology In Kirandul Iron Ore Mines (16<sup>th</sup> Jan-30<sup>th</sup> Jan 2018)

Context:	Geology is a field science so field studies are essential.
Objective:	Field work helps students to identify rocks, and structures.
Activity:	Practical training on field and samples collected from various locations.
Evidences:	Photographs. Attached
Impact Analysis:	a) <b>Learning outcome-</b> Students were given hands on training how to measure, dip and strike from a dipping bed by clinometers. b) <b>Beneficiary:</b> M.Sc. IInd Sem students.



**Grey Hematite**



**Mining in Benches**



**Lateritic Hematite**



**Reverse Fault**



### 3. Geological Field training M.Sc. II Sem. Geology In Daldali Kawardha Bauxite Mines (15<sup>th</sup> feb-28<sup>th</sup> feb2018)

Context:	Geology is a field science so field studies are essential.
Objective:	Field work helps students to identify rocks, and structures.
Activity:	Practical training on field and samples collected from various locations.
Evidences:	Photographs. Attached
Impact Analysis:	a) <b>Learning outcome-</b> Students were given hands on training how to measure, dip and strike from a dipping bed by clinometers. b) <b>Beneficiary:</b> M.Sc. IInd Sem students.



#### 4. Skill Development on Groundwater studies

Date of Event: (31<sup>st</sup> July-4<sup>th</sup> August 2017)

Context: New techniques in ground water studies  
Objective: Practical training in remote sensing & GIS  
Activity: Presentation, practical training on classroom & data check on field  
Evidences: Photographs. Attached  
Impact Analysis: a) **Learning outcome-** expertise in the field of remote sensing & GIS for groundwater studies.  
b) **Beneficiary:** Students of M.Sc. Geology



## 5. Skill Development on Recharge Techniques

Date of Event: (3<sup>rd</sup> July-7<sup>th</sup> July 2017)

Context: Artificial Recharge  
Objective: Practical training on managed Aquifer recharge  
Activity: Presentation in Classroom and Practical training on field.  
Evidences: Photographs. Attached  
Impact Analysis: a) **Learning outcome-** Development of Entrepreneurship in the field of recharge techniques  
b) **Beneficiary:** Students of M.Sc. Geology





# Departmental Activity 2016-17

## 1. Skill Development on Site Selection for Water Well construction

Date of Event: May 29 - June 02, 2017

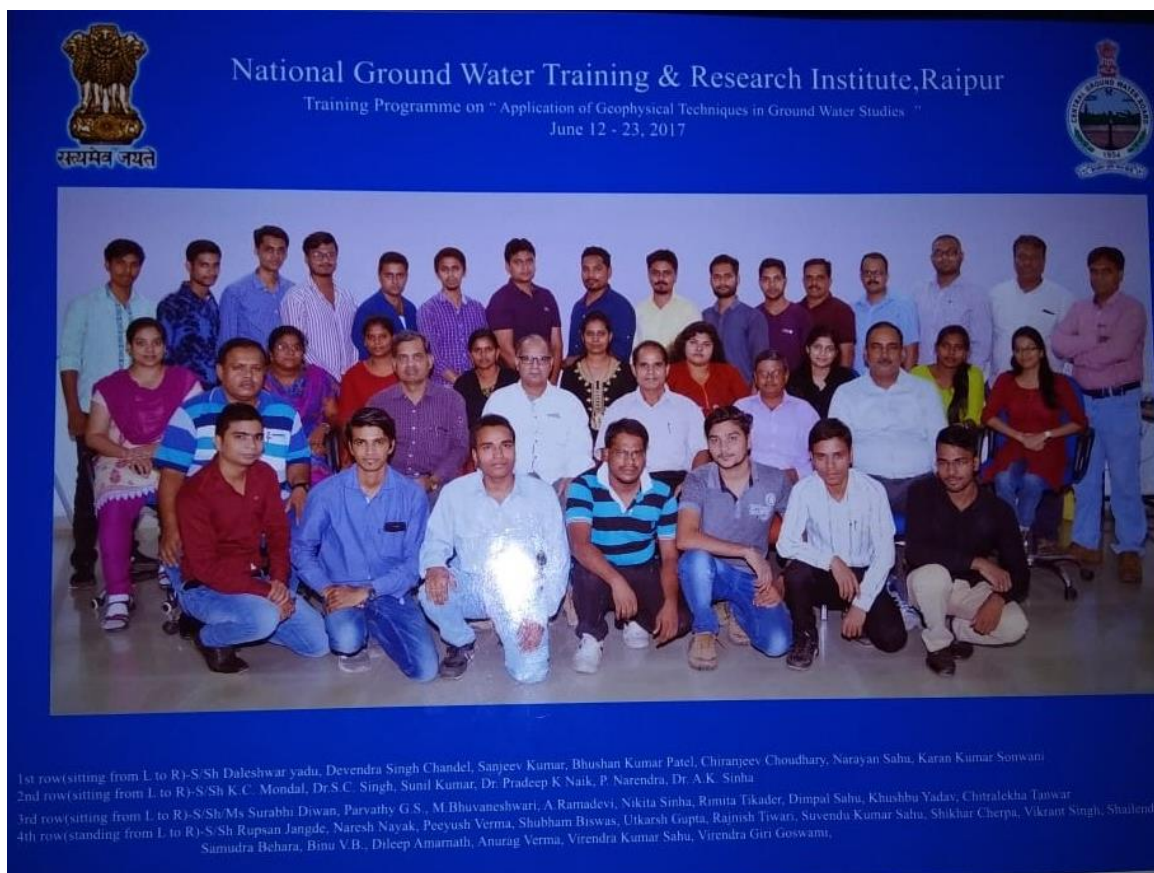
Context: Skill development on Site selection for Water Well.  
Objective: Practical training on methods of site selection for construction of water well.  
Activity: Presentation in Classroom and Practical training on field.  
Evidences: Photographs. Attached  
Impact Analysis: a) **Learning outcome-** Development of Entrepreneurship in the field of Well construction and site selection.  
b) **Beneficiary:** Students of M.Sc. Geology



## 2. Skill Development on Groundwater Exploration

Date of Event: June 12-23 2017

Context: Skill development in Geophysical techniques in Groundwater studies.  
Objective: Practical training on Techniques of Geophysical Exploration.  
Activity: Presentation in Classroom and Practical training on field.  
Evidences: Photographs. Attached  
Impact Analysis: a) **Learning outcome-** Development of Entrepreneurship in the field of Groundwater Exploration.  
b) **Beneficiary:** Students of M.Sc. Geology



### 3. Geological Field training M.Sc. II Sem. Geology In parts of Mahanadi River, District-Dhamtari (1<sup>st</sup> March-21 March 2017)

Context: Geology is a field science so field studies are essential.  
Objective: Field work helps students to identify rocks, and structures.  
Activity: Practical training on field and samples collected from various locations.  
Evidences: Photographs. Attached  
Impact Analysis: a) **Learning outcome**- Students were given hands on training how to measure, dip and strike from a dipping bed by clinometers.  
b) **Beneficiary**: M.Sc. IInd Sem students.





#### 4. Project work of M.Sc. IV Sem. Geology students In Malanjkhand Copper Mines (06<sup>th</sup> Feb-22<sup>nd</sup> Feb 2017)

Context: Geology is a field science so field studies are essential.  
Objective: Field work helps students to identify rocks, and structures.  
Activity: Practical training on field and samples collected from various locations.  
Evidences: Photographs. Attached  
Impact Analysis: a) **Learning outcome**- Students were given hands on training how to measure, dip and strike from a dipping bed by clinometers.  
b) **Beneficiary**: M.Sc. IInd Sem students



## 5. Project work of M.Sc. IV Sem. Geology students In Gevara Coal Mines, Korba CG

(6<sup>th</sup> feb-22<sup>nd</sup> feb2017)

Context: Geology is a field science so field studies are essential.  
Objective: Field work helps students to identify rocks, and structures.  
Activity: Practical training on field and samples collected from various locations.  
Evidences: Photographs. Attached  
Impact Analysis: a) **Learning outcome**- Students were given hands on training how to measure, dip and strike from a dipping bed by clinometers.  
b) **Beneficiary**: M.Sc. IInd Sem students.





## 6. Workshop on Examination Reforms(22<sup>nd</sup> June2017)

Context:	Geology is a field science so field studies are essential.
Objective:	Field work helps students to identify rocks, and structures.
Activity:	Practical training on field and samples collected from various locations.
Evidences:	Photographs. Attached
Impact Analysis:	a) <b>Learning outcome</b> - Students were given hands on training how to measure, dip and strike from a dipping bed by clinometers. b) <b>Beneficiary</b> : M.Sc. IInd Sem students.







# Departmental Activity 2015-16

## 1. Capacity Building lecture in Geology

Date of Event: 27/07/2015

Context: To aware students about the important events of Earth's History with special reference to Chhattisgarh Basin.

Objective: Interaction with the students to expand their knowledge on Geology of Chhattisgarh.

Activity: Presentation in Classroom and Practical training on field.

Evidences: Photographs. Attached

Impact Analysis: a) **Learning outcome-** Students were understood the importance of field knowledge as the expert Dr Dutta Director General GSI shared his field experiences. It will help the students to prepare themselves before facing an interview.

b) **Beneficiary:** Students of M.Sc. and B.Sc. Geology





Dr Dutta delivered his lecture on different aspects of geology with particular reference to Chhattisgarh Basin and India. He explained how to make the subject geology interesting and has given tricks to remember important events of Earth's history. Students need to be more vocal in explaining the subject. According to him, an average student, if confidently and boldly reply in an interview is much better than a meritorious student who does not responds. Students should develop communicative skill in order to explain subject easily. Students should prepare themselves before facing an interview.



## 2. Geological Field work B Sc Part III students 2015-16

**Location: Rajim and Gangrel area. (8<sup>th</sup> Jan 2016)**

Context: Geological excursion tour

Objective: Geology is a field science, and field training will help to identify various lithologies, structures.

Activity: Field traversing and measurement of attitude of beds that is not possible in lab.

Evidences: Photographs. Attached

Impact Analysis: Students can analyze different geological problems and phenomenon.



### 3. Project Work M.Sc. IV Sem. Geology

**Location: Bailadila Iron Ore Mines, Distt. Dantewada.**  
**(02Feb-16Feb2016)**

Context: Geology is a field science, so project-oriented field studies are essential.

Objective: Field work helps students to identify different geological problems. It enhances the research capabilities of the student.

Activity: Practical training on mineral exploration, mining methods, ore reserve calculations, environmental impact assessment has been carried out.

Evidences: Photographs. Attached

Impact Analysis: a) **Learning outcome-** Students were given training on different aspects of exploration, and mining. It will help to get job in mining industry.  
b) **Beneficiary:** M.Sc. IVnd Sem students.





**4. Geological Field training M.Sc. II Sem. Geology**  
**Location: Sonakhan, Saraipali, Singhora, Chandrapur area.**  
**(8<sup>th</sup> April-16<sup>th</sup> April 2016)**

Context:	Geology is a field science so field studies are essential.
Objective:	Field work helps students to identify metamorphic and sedimentary rocks, structures.
Activity:	Practical training on field and samples collected from various locations.
Evidences:	Photographs. Attached
Impact Analysis:	a) <b>Learning outcome-</b> Students were given hands on training how to measure, dip and strike from a dipping bed by clinometers.
	b) <b>Beneficiary:</b> M.Sc. IInd Sem students.







# Departmental Activities 2014-15

## 1. Training on Rainwater Harvesting (17-18 Dec)

Context:	Due to over exploitation of groundwater in urban areas, the groundwater level has gone drastically down. So student should aware about conservation of rainwater.
Objective:	Practical training on conservation of rainwater.
Activity:	Presentation in Classroom and Practical training on field.
Evidences:	Photographs. Attached
Impact Analysis:	Learning outcome- Conservation of rainwater from runoff. Beneficiary: Students of M.Sc. and B.Sc. Geology



**INAUGURAL FUNCTION**



**RECHARGING PIT**



**RAINWATER HARVESTING SITE AT PARCHAUTY, RAIPUR**



## 2.Geological Field work B Sc Part III students 2014-15

(13-16 JANUARY 2015)

Context: Geology is a field science so field studies are essential.  
Objective: Field work help students to identify geological formation, structure etc.  
Activity: Practical training on field to measure dip strike of beds that is not possible in lab.  
Evidences: Photographs. Attached  
Impact Analysis: Students can analyze different geological problems and phenomenon.



**GEOLOGICAL FIELDWORK AT TIRATHGARH, KOTAMSAR- CAVES, BASTAR**



### **3.Geological Field Work M.Sc. Geology (18-25 FEB 2015)**

Context:	Geology is a field science so field studies are essential.
Objective:	Field work helps students to identify different lithological formations, structures.
Activity:	Practical training on field and samples collected from various lithounits.
Evidences:	Photographs. Attached
Impact Analysis:	Learning outcome- Students can analyze different geological problems and phenomenon.



#### **GEOLOGICAL FIELD WORK AT KAWARDHA AREA**



#### 4. Skill development training on Groundwater Exploration (13 FEBRUARY 2015)

Context: Due to over exploitation of groundwater in urban areas, the groundwater level has gone drastically down. So potential zones of groundwater can be identified by Exploration Technique.

Objective: Identify aquifer by resistivity survey methods.

Activity: Practical training on Resistivity survey methods.

Evidences: Photographs. Attached

Impact Analysis: Learning outcome- Skill development in groundwater exploration technique.



**RESISTIVITY METER**

#### **PRACTICAL TRAINING ON FIELD**



**LECTURE ON RESISTIVITY SURVEY METHOD**



## 5 Skill development & Training programme on groundwater development at RG National Ground Water Training & Research Institute, Raipur (19-30JAN 15)

Context:	Skill development on groundwater development.
Objective:	Practical training on groundwater development
Activity:	Presentation in Classroom and Practical training on field.
Evidences:	Photographs. Attached
Impact Analysis:	a) <b>Learning outcome-</b> Proficiency in the field of groundwater development b) <b>Beneficiary:</b> Students of M.Sc. Geology



### CERTIFICATE OF PARTICIPATION



## **6. PARENTS TEACHER MEETING**

**Every year Parents teacher meeting is organized by the Department.**



