

**NAGARJUNA GOVERNMENT COLLEGE (AUTONOMOUS)
NALGONDA, A.P.**

**PROFILE OF THE
DEPARTMENT OF GEOLOGY**



Submitted by

**DEPARTMENT OF GEOLOGY
NAGARJUNA GOVERNMENT COLLEGE, NALGONDA,
TELANGANA.**

ABOUT THE DEPARTMENT

The department of Geology was established in the year 1959 and it was the first college to introduce Geology in English Medium. And this is the college that offers Geology as one of the optional in the entire Telangana region. Beginning in 1972 the combination of Geology was converted into Telugu Medium. MPG group is converted from Telugu medium to English Medium during the year 2010-11 onwards. The department was led by eminent lecturers like; Sri. D. Vaman Rao, Prof: A.A.Moiz, .Dr. Harinath Babu, .Afsar Ali Baig, .Sri.G. V.Krishna Murthy, .Sri.P. Veeraiah, Sri.S.Purushotham.. At present the department is headed by Chintha Muthaiah, I/c Department of Geology.

In addition to regular academic work, extension lectures are conducted to supplement and strengthen the syllabus. Besides this periodical tests are conducted to evaluate and update the knowledge of the students.

Advanced and latest knowledge of the subject provided to the students by conducting modules every year in each paper. It functions as a bridge between the regular academic / curricula and the advancement coming about in the field.

Now this is the only department offering Geology in Telangana Region in Government colleges with 02 sanctioned posts and one Non – teaching staff.

The department is providing practical facilities well equipped spacious laboratories and M.S.Krishnan Geological Museum. The department organized quiz programmes and seminars to update the knowledge and to develop learning habit and personality development. Extension lectures are organized for better exposure of students to the latest subject and teaching techniques.

The enormous magnitude of scientific power produced by the department is more than 500 M.Sc. and no. of Alumni have distinguished themselves in academic and administrative areas in the country occupying positions of responsibility in industrial establishment and academic institutions. Professors in Osmania University, Kakatiya university, Mahatma Gandhi University, Geological Survey of India, National Geophysical Research Institute, Singareni Collieries Ltd, AP Mines & Geology, AP State Ground Water Department, Central Ground Water Board, AP National Mineral Development Corporation, APSRAC. etc.,

Every year the passing percentage of Geology is more than 90. Some of the senior faculty members delivered guest lecturers to UG students in the affiliated colleges. Free consultancy service is providing to the farmers for locating groundwater sites for agricultural purposes

STAFF OF THE DEPARTMENT

| Sl. NO | Name of the Lecturer | Designation | Education Qualification |
|---------------|-----------------------------|--------------------|--------------------------------|
| 1. | I. Chandraiah | Contract Lecturer | MSc, M.Sc.(Tech), TS-SET |
| 2. | K.KanakaDurga Prasad | Contract Lecturer | M.Sc, M.Sc-tech |

NON - TEACHING STAFF

| Sl. NO | Name of the Employee | Designation |
|---------------|-----------------------------|--------------------|
| 1 | I.Ganesh | Lab Asst. |
| 3 | Vacant | Museum keeper |

FACULTY PROFILE



1. Name : Indrakantichandraiah
2. Father's Name : Biksham
3. Designation : Contract Lecturer in Geology
4. Place of working : Nagarjuna Government College: Nalgonda
From 20.11.2000 to till date
5. Permanent address : H. No 8.51 , Cherlapally, Nalgonda
Mobile No 9441291373
6. Date Birth & Age : 01.01.1968,
7. Date of appointment 20.11.2000 through CPDC
8. Nationality : Indian
9. Sex : Male
10. Educational Qualifications(from SSC onwards):

| S.No. | Degree | Board/ University | Year of passing |
|-------|-----------|--------------------|-----------------|
| 1. | B.Sc | Osmania University | 1993 |
| 2. | M.Sc | Osmania University | 1996 |
| 3. | M.Sc-Tech | Osmania University | 1997 |
| 4. | TS SET | TELANGANA | 2017 |

11. Total teaching Experience : 19 Years

FACULTY PROFILE



- 1).Name :Sri K.KANAKADURGA PRASAD.
2).Father's Name :Janaki Ramaiah.
3).Date of Birth & Age :06-04-1972 – 44years
4).Nationality :Indian
5).Caste :BC-D(Munnuru kapu)
6).Sex :Male
7).Perminent Address :6-3-117/s13,Gandhi Nagar,Nalgonda-
508001, Telangana
Cell:9618929018
e-mail: kandukuri109@gmail.com.
8).Designation :Contract Lecturer in Geology.
9).Place of working :Dept, of Geology,
Nagarjuna Govt. College,Nalgonda.
10).Qualifications :M.sc.,M.sc Tech.,(Ph.D).
11).Service Particulars :Lecturer in Geology from
01-09-2002 to Till Date.
12).Seminars/Orientation
Programmes attended :1.Attended to Seminar Conducted by
A.M.D at MGU-Nalgonda
13).Curricular & CO-Curricular
Activities :1.Resource Person to Disaster
Management, Collectorate.
2.Member in the Rain Water
Harvesting Committee,N.G college.
3.Working as the Ground Water
Consultant.
14).Publications(Books Articles) :Nil

Signature

(K. KANAKADURGA PRASAD)

STUDENT STRENGTH PARTICULARS

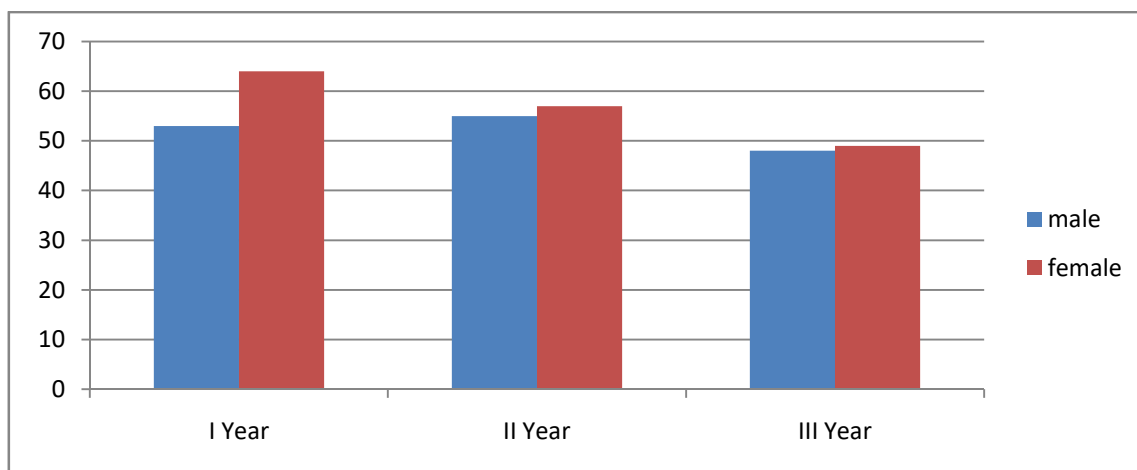
Most students coming from varied demography which majorly include the rural and sub-urban region. Students from the diverse socio-cultural, economical and educational back ground are admitted to the department.

Social Back Ground of the student Academic Year 2018-19 for B.Sc.

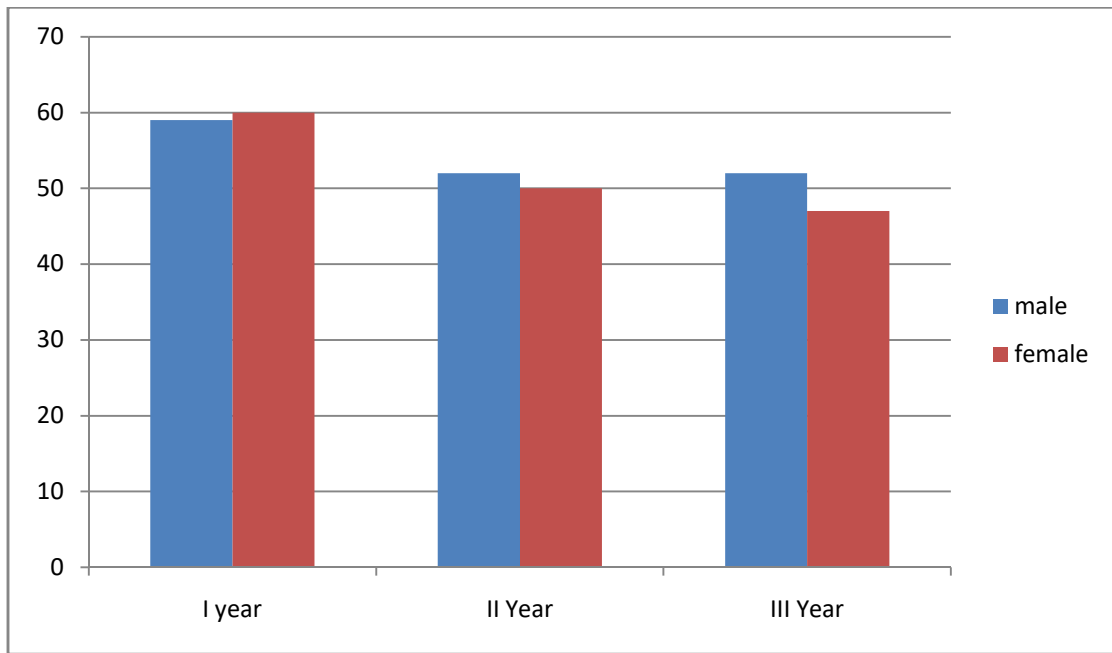
| YEAR | GENDER | SC | ST | BC | MI | OC | PHC | TOTAL |
|----------|--------|----|----|----|----|----|-----|-------|
| I Year | M | | | | | | | 41 |
| | F | | | | | | | 16 |
| II Year | F | 10 | 4 | 35 | 0 | 4 | 0 | 53 |
| | M | 19 | 6 | 32 | 3 | 3 | 0 | 63 |
| III Year | F | 7 | 4 | 38 | 3 | 3 | | 55 |
| | M | 15 | | 29 | 2 | 1 | 0 | 51 |

**Social Back Ground of the students
Academic Year 2017-18 for B.Sc.**

| YEAR | GENDER | SC | ST | BC | MI | OC | PHC | TOTAL |
|----------|--------|----|----|----|----|----|-----|-------|
| I Year | F | 10 | 4 | 35 | 0 | 4 | 0 | 53 |
| | M | 20 | 6 | 33 | 2 | 3 | 0 | 64 |
| II Year | F | 7 | 4 | 38 | 3 | 3 | 0 | 55 |
| | M | 15 | 4 | 29 | 2 | 1 | 0 | 57 |
| III Year | F | 12 | 2 | 27 | 1 | 6 | 0 | 48 |
| | M | 14 | 5 | 27 | 1 | 2 | 0 | 49 |



**Social Back Ground of the students
Academic Year 2016-17 for B.Sc.**



| I Year | F | 9 | 4 | 39 | 4 | 3 | 0 | 59 |
|-----------------|----------|----|---|----|----|---|---|----|
| | M | 19 | 5 | 32 | 3 | 1 | 0 | 60 |
| II Year | F | 11 | 2 | 32 | 01 | 6 | 0 | 52 |
| | M | 14 | 6 | 27 | 1 | 4 | 0 | 50 |
| III Year | F | 12 | 1 | 34 | 1 | 4 | 0 | 52 |
| | M | 9 | 8 | 26 | 02 | 2 | 0 | 47 |

INTRODUCTION:

The department of Geology is one among important departments of the college having 02 sanctioned post teaching staff. The department comprises two laboratories and one Museum for conducting Practicals.

The Department is equipped with scientific equipments such as Resistivity meter, Digital Planimeter, digital chartometer, Ion analyzer, Nephelometer, PH-Meters, Geological Maps, Topo-sheets, Aerial photographs to conduct various experiments in a systematic manner as per the Autonomous syllabus and also for Minor Research Projects.

1.CURRICULAR ASPECTS:

Courses available in the college combinations with Geology

Courses offered

- B.Sc (Botany, Zoology & Geology) English Medium
- B.Sc (Mathematics, Physics & Geology) English Medium

The college was conferred with autonomy for a period of six years from 2007-08 to 2012-13. The curriculum is designed according to the global demands and local needs. The experts in the field of earth science are incorporating latest developments from time to time design the curriculum

The department makes periodical review to ascertain the extent of completion of syllabus and suggest remedial measures. These proceedings are recorded and intimated to the members of the staff. The syllabus is reviewed and evolved Semester System with two Internal Assessments compulsory in each semester.

The in-charge of the department is nominated as Chairman Board of Studies, Mahatma Gandhi University nominates one nominee and college nominates two subject experts from the outside of the college and the staff of the department are the members of the BOS.

Board of Studies in Geology 2019-20

| S.No. | BOS | Name | Designation |
|-------|----------------------------|-------------------------|---|
| 1 | Chairman | Chintha Muthaiah | Asst.prof.in Chemistry Incharge, Dept. Of Geology N.G.College |
| 2 | Member –University Nominee | Prof : M.Srinivas | Professor Dept. Of Geology, Osmania University, Hyderabad |
| 3 | Member | Prof.I.Panduranga Reddy | Professor Dept. Of Geology, Osmania University, Hyderabad |
| 4 | Member | Prof.G.Prabhakar | Professor Dept. Of Geology, Osmania University, Hyderabad |
| 5 | Member | I.Chandraiah | Lecturer, Dept. Of Geology. NG College |
| 6 | Member | K.Durgaprasad | Lecturer, Dept. Of Geology. NG College |

Scheme of Instructions for B.Sc. Regular
(As per the CBCS and Semester System to be Implemented from the
Academic year 2019-2020)

| Year | Semester | Paper | Paper Code | Title of the paper | Hours Per Week | Exam Duration |
|----------|----------|-------|--------------------|--|----------------|---------------|
| I Year | I | I | | Physical Geology & Crystallography | 4 | 2hr 30 min |
| | II | II | | Crystallography Optical Mineralogy | 4 | 2hr 30 min |
| II Year | III | III | | Igneous and Metamorphic Petrology | 4 | 2hr 30 min |
| | IV | IV | | Sedimentary Petrology & Structural Geology | 4 | 2hr 30 min |
| III Year | V | V | | Indian Geology & Palaeontology | 3 | 2hr 30 min |
| | | VI | Elective Paper-I | Hydrogeology / Environmental Geology | 3 | 2hr 30 min |
| | VI | VII | | Economic Geology | 3 | 2hr 30 min |
| | | VIII | Elective Paper- II | Mineral Exploration / Mining Geology & Mineral beneficiation | 3 | 2hr 30 min |

2.TEACHING AND LEARNING :

2.1 TEACHING

At the commencement of every academic year, the college as well as department conducts counseling sessions/induction programmes for newly admitted students.

Faculty of the department prepares the annual action plan at the start of the academic year based on the academic calendar supplied by the College.

- The teaching staff has freedom to adopt their own teaching methods and innovations, teaching modules to make the students understand the topics in their respective papers
- The teaching faculty of the department normally uses Blackboard and chalks for Teaching – Learning process and also make use of the various models, charts, Power point presentations to explain the lessons
- The teaching involves mainly lecture and discussion methods supplemented by seminars.
- Teaching diary and teaching notes are maintained by every staff member
- Study material is supplied to the students.
- Students are encouraged to participate in seminars, quiz and group discussions conducted by the lecturers in their respective classes.
- The students have been encouraged to collect different clippings related to the subject from newspapers and magazines.
- E-lessons: students are encouraged to watch MANA TV programmes
- Study material for some of the topics in the syllabus is downloaded from the internet and is supplied to the students and also kept in departmental library for ready reference.

Bridge Classes:

We are conducting bridge classes to first year students to understand the subject. At the commencement of every academic year, the college conducts counseling sessions/induction programmes for newly admitted students. In these sessions, college Principal, Vice Principal, Academic Coordinator and the senior faculty members make students aware with their goals and objectives, code of conduct, classroom attendance, examination pattern and evaluation system and the amenities available in the college.

Remedial Coaching:

Students belongs to I, II & III years will be divided into groups such as **bright, average** and **below average** based on their performance in the examination. The average and below average students are given remedial coaching classes to improve the subject and also pass percentage of the subject.

The remedial classes are conducting regularly to the students in study hours to not to disturb regular classes. Remedial coaching classes were conducted to below average students by taking, extra classes.

2.2 Learning:

- The students are encouraged to read textbooks from the college main library as well as the department library and the discuss difficult topics with the staff members.
- The slow learners are identified and given remedial classes. Study material has been supplied on some selected topics
- Average students are encouraged to write assignments on the topics useful for the university examinations.
- The bright students are encouraged to undertake study projects.

Extension lecturers

| | | | | |
|----|--|---|--|-------------------|
| 1 | Dr. V.V SHESHA SAI | Extension Lecture on Crystallography | Sr. Geologist Petrology Division GSI, Hyderabad | 28-09-2013 |
| 2 | Dr. V.V SHESHA SAI & Sri P. VEERAI AH | Seminar | Sr. Geologist Petrology Division GSI, Hyderabad Retd. Lecturer NG College Nalgonda. | 03-02-2014 |
| 3 | Sri P. VEERAI AH | Extension Lecture on Petrology | Retd. Lecturer NG College Nalgonda. | 03-03-2015 |
| 4 | Dr.Balachandrudu | Extension Lecture | Sr.Scientist,Geologic al Survey of India | 30-03-2019 |
| 5. | | | | |



STUDENTS SEMINARS

B.Sc. students are encouraged for seminars as a additional input for their personality development, for development of communicational skills and better understanding of the subject. These seminars help to improve the presentation skills of the students. The topics of seminar are given in advance to the students and the lecturer will guide them to present the seminar. Number of students participated actively in the seminars.:



QUIZ PROGRAMME

The department of Geology has conducted a quiz program. The following groups were declared winners and runners.

2013 – 2014

Winners

1. K.Sravanthi
2. M.Shiva Ram

Runners

1. G.Geetha
- 2.V.Vamshi

2014 – 2015

Winners

1. V.Krupa
- 2.K.Sravan Kumar

Runners

- 1.CH.Sailaja
- 2.J.Paramesh

2015 – 2016

Winners

- 1.G.DhanaLaxmi
- 2.R.Arjun

Runners

- 1.R,Manasa
- 2.M.Keerthi



TRAINING PROGRAMMES

GSI Hyderabad conducted a three days training programme on 'Mineral exploration and mineral prospecting'. 40 students from our department are attended to that programme.



GROUP DISCUSSION

| Academic Year | Date | Topic | Name of the Supervisor | Name of the Students | |
|---------------|------------|----------------|------------------------|---|---|
| | | | | Group A | Group B |
| 2014-15 | 02-11-2014 | Global Warming | Dr.P.Rama Krishna | P.Kavitha U. Santhosha J. Annapurna V. VenkatK.Swamy | B. Nithin B. Nagaraju T. Madhavi U. Reunka T. Krishna |

STUDY PROJECTS

| S.NO | YEAR | NAME OF THE STUDENT | SUPERVISOR | NAME OF THE PROJECT |
|------|-----------|---|-------------------------------|--|
| 1 | 2013-2014 | G.DHANA LAXMI T.VENKANNA G.NAGARAJU | Dr.P.RAMAKRISHNA | PETROLOGICAL STUDIES OF NALGONDA-KAPURALAGUTTA GRANITES NALGONDA DISTRICT, A.P |
| 2 | 2014-15 | SAMREEN P.SANTHOSH REDDY P.PRAVEEN KUMAR | Dr.P.RAMAKRISHNA | MINERAL PROSPECTING IN NALGONDA DISTRICT,AP |
| 3 | 2015-16 | B,SIRISHA R.JYOTHI B.RAMAEVI | Dr.P.RAMAKRISHNA | GROUND WATER INFORMATION NALGONDA DISTRICT,AP |
| 4 | 2016-17 | RENUKA | K. DURGAPRASAD & I.CHANDRAIAH | A study project on water quality in nalgonda. |
| 5 | 2017-2018 | DURGAPRASAD ,NAVEEN,SHIVANI,THANMAYI. | K. DURGAPRASAD | A study project on mineralwealth inTelangana. |
| | 2018-19 | SULTHAN,VINAY,MAMATHAGAYITHRI | I.CHANDRAIAH | Study project on Lateef sahib hillock. |

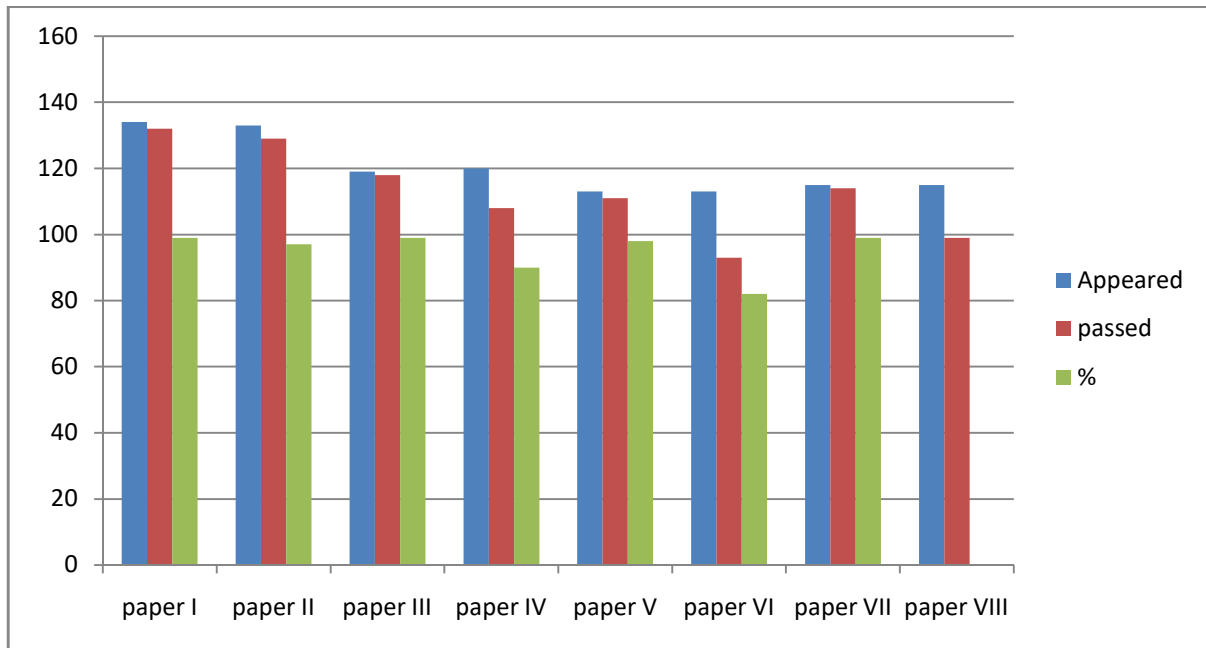
2.3.EVALUATION:

- ▶ Continuous evaluation by conducting slip tests, Assignments, Two Internal Assignments in each semester,
- ▶ Class wise Unit Tests and Assignments, were conducted regularly and the corrected answer paper were given to the students to aware their mistakes.
- ▶ Pre – final examinations are conducting as per the unitization of semester system.
- ▶ Remedial classes for slow learners, mentor mentee counseling, study projects,quiz competitions, student seminars, field visits, field work, exhibitions were organized to concentrate on improving the level of understanding subject.

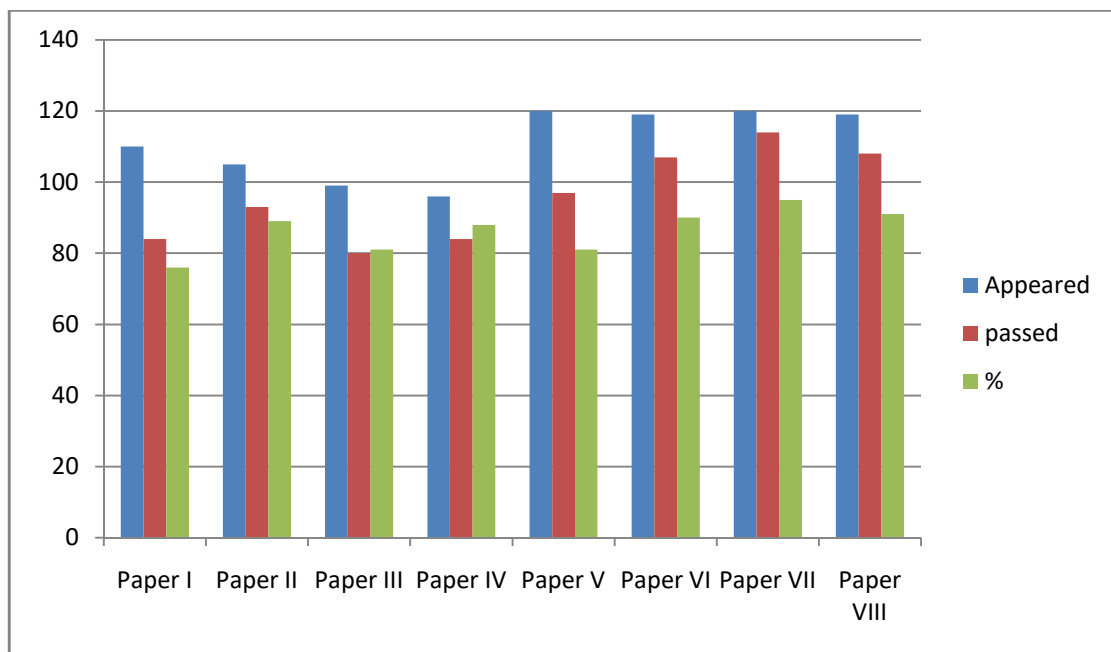
RESULTS

| Year | PASS PERCENTAGE(%) | | | | | | | |
|-----------|--------------------|----|-----|----|----|----|-----|------|
| | I | II | III | IV | V | VI | VII | VIII |
| 2013-2014 | 99 | 97 | 99 | 90 | 98 | 82 | 99 | 86 |
| 2014-2015 | | 92 | 91 | 95 | 96 | 95 | 99 | 100 |
| 2015-2016 | 76 | 89 | 81 | 88 | 81 | 90 | 95 | 91 |
| 2016-2017 | 77 | 82 | 74 | 84 | 78 | 84 | 95 | 87 |
| 2017-2018 | 76 | 95 | 85 | 79 | 83 | 79 | 96 | 94 |
| 2018-2019 | | | 94 | 97 | 92 | 91 | 92 | 94 |

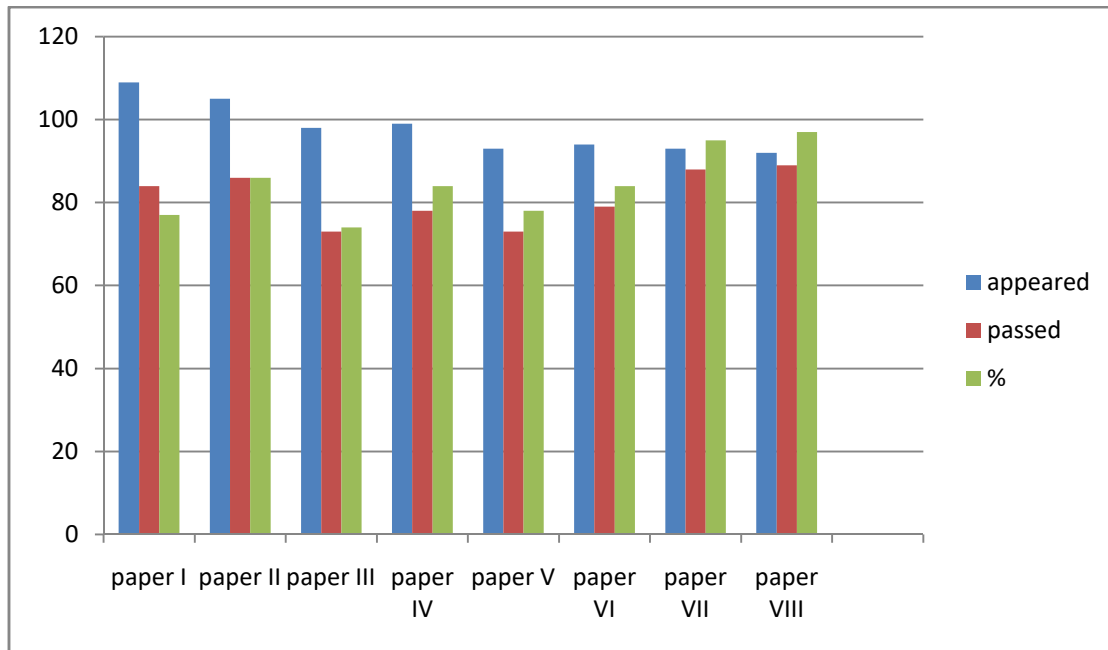
RESULT ANALYSIS 2013-14



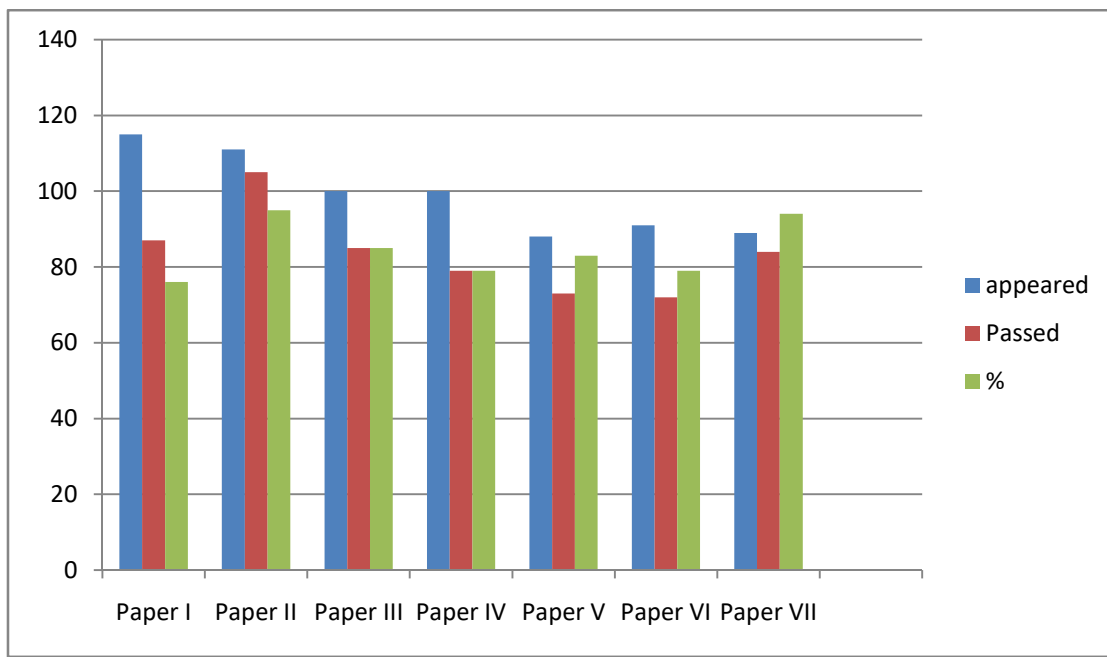
RESULT ANALYSIS 2015-16



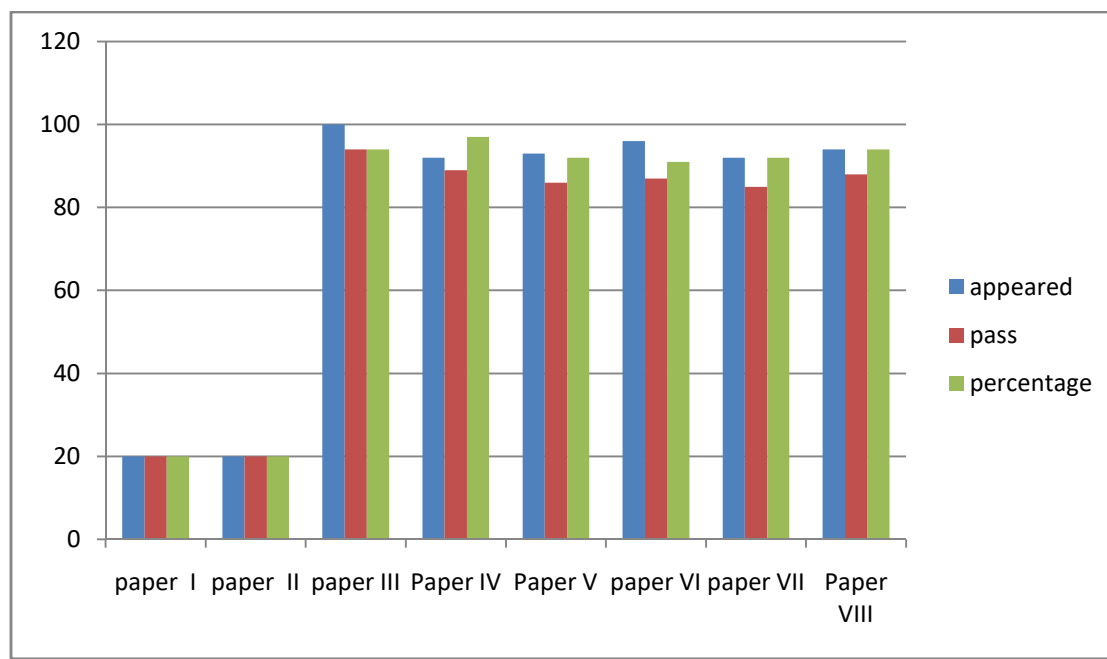
RESULT ANALYSIS 2016-17



RESULT ANALYSIS 2017-18



RESULT ANALYSIS 2018-19



4.INFRASTRUCTURE AND LEARNING RESOURCES:

The department is providing practical facilities well equipped spacious laboratories and M.S.Krishnan Geological Museum.

the Department is equipped with scientific equipments such as Resistivity meter, Digital Planimeter, digital chartometer, Ion analyzer, Nephelometer, PH-Meters, Geological Maps, Topo-sheets, Aerial photographs to conduct various experiments in a systematic manner as per the Autonomous syllabus and also for Minor Research Projects.

M.S.KRISHNAN GEOLOGICAL MUSEUM

Department have a rare collection of fossils, rocks and minerals specimens in the museum .these sample are collected by our students



Fossil belongs to related species of dinosaurs



Amethyst a gem variety of quartz



malachite



core drilling rock sample



star fish



Corals

Library as Learning Resource

Apart from the huge central library, the department has a library textbooks and rare collection of reference books and laboratory manuals. These books and manuals are lent to the students, which will be an additional reading material to them.

5. STUDENT SUPPORT AND PROGRESSION:

STUDENT PROGRESSION

Our UG students getting no.of M.Sc. Geology seats in various Universities like Osmania University, Kakatiya University, Mahatma Gandhi University, Andhra University, Telangana University, Jawaharlal Nehru Technology University, etc. in every academic year.

MAHATMA GANDHI UNIVERSITY:NALGONDA

M. Sc (Applied Geology) 2015-2016

| S.NO | Name of the Candidate |
|------|-----------------------|
| 1 | Sujatha |
| 2 | Sathyavathi |
| 3 | Hari Prasad |
| 4 | Saidulu |
| 5 | Shiva Shankar |
| 6 | R.Srinu |
| 7 | Ramulu |
| 8 | Srikanth |
| 9 | Paramesh |
| 10 | Hari Krishna |

| s.no | Name | Class | rank |
|------|------------|-------|------|
| 1 | M.Deepthi | | |
| 2. | Ch.Mounika | | |
| 3. | V.Gouthami | | |
| 4 | J.Swetha | | |
| 5 | Sindhu | | |
| 6 | B.Saikiran | | |
| 7 | k.Chandu | | |
| 8 | T.Sravan | | |

Geology students working in various Jobs:

Singareni Coal Mines as a Geologist

1. S.SrinivasNaik

ROYALTY INSPECTOR IN MINES AND GEOLOGY

1.RachaRavinder

Mines and Geology as a Technical Assistants:

1. B.Srinivasulu
- 2.N.Nagamani
- 3.P.Krishnam Raju
- 4.M.Hari Krishna
- 5.A.Shekar
- 6.Balu
- 7.Ramesh Goud
- 8.Saidulu
- 9.Hari Prasad

Mines and Geology as a Technical Assistants

- 1.G.Sudhakar
2. S.Saidulu
- 3.B.Nagesh
- 4.CH.Ramurthi
- 5.Renuka
- 6.S.Sujatha
- 7.K.Srinu
8. Parusharam
- 9.M.Venkateshwarlu
- 10.M.Kalavathi
- 11K.Saritha
- 12.P.Indira
- 13.Nagesh
- 14.Venkatesham
- 15.G.Madhu
- 16.Maheshwar Reddy
- 17.CH.Venkanna
- 18.K.Ravi
19. K.Saidulu
- 20.M.Nagaraju

- 21.K.Balu
- 22.Pushpalatha
- 23.Praveena

NGRI as a Technical Assistants & Project Assistants

- 1.B.Nagesh
- 2.G.Vamshi Krishna
- 3.M.Lingaswamy
- 4.Rambabu
5. E.Sathyanarayana

APGWB

- 1.A.Shoba(Technical Assisat)

INFOTEK

- 1.Giribabu
- 2.Anji

WORKING IN ABROAD AS A GEOLOGISTS

- 1.Suresh Goud (Indonesia)
- 2.G.Ravi (Congo)
- 3.D.Naresh (Nigeria)
- 4.B.Nagaraju (Nigeria&Congo)
- 5.R. Rama Krishna (South Africa)

RURAL DEVELOPMENT

- 1.M.Kalavathi
- 2.P.Nagamani
- 3.M.Upender
- 4.M.Nagaraju
- 5.S.Sujatha
- 6.Laxmi
- 7.P.Sudhakar

SUB INSPECTER

- 1.Jan Reddy(Nizamabad)

ASSISTANT GEOLOGISTS

1.M.Narsi Reddy

2.Srinivas

AWARDS RECIEVED

- **Sruthi (BZG) got STATE PRATHIBHA AWARD**