

**Government Arts college (Autonomous),  
Coimbatore –18  
Performance - Teacher Appraisal  
Report**

**i) General Information**

- a) Name : **Dr. B. GOWTHAM**
- b) Address (Residential) : F112, Shree Dhaksha's Aashritha, Prabha Nagar  
Vadavali – Thondamuthur Road, Vadavalli,  
Coimbatore – 641 046.
- c) Designation : Assistant Professor (On Deputation)
- d) Department : Geology
- e) Date of Birth : 23.12.1973
- f) Area of Specialization : Hydrogeology, Structural Geology, Environmental  
Geology, Geophysics, Remote Sensing & GIS



**A) Academic Qualifications**

Examination passed	Board / university	Subject	Year	Division grade/merit etc.,
B.Sc	University of Madras	Geology	1995	55.85 %
M.Sc	University of Madras	Geology	1998	65.94%
M.Phil.,	University of Madras	Geology	1999	65.14 %
Ph.D	University of Madras	Geology	2006	Commanded

**ii) Research Experience & Training**

Research stage	Title of thesis	University where the work was carried out.
M.Phil	“Groundwater Characteristics and Pollution around Ambattur, Chennai and Thiruvallore Districts, Tamil Nadu”	<b>University of Madras</b>
Ph.D	“Integrated Hydrogeological Investigations of Lower Gundar Basin, Tamil Nadu, India”	<b>University of Madras</b>

No of Publication : 70

- Research guidance(give the names of students guided successfully)
- (1) Dr. S.SenthilKumar
  - (2) Dr. N.Rameshkumar
  - (3) Dr. V.S.T. Gopinath
  - (4) Dr. M.K.Manimegalai
  - (5) Dr. K.Kumaresan
  - (6) Dr. K.Vinodh
  - (7) Dr. Alaparthi Sreenivas
  - (8) Dr. K.Jothi
  - (9) Dr. R.Ganesh

(10) Dr. S. Nagarajan

Training(please specify)	<ul style="list-style-type: none"><li>• Orientation (intensive Training) Programme conducted by University Grants Commission and Academic Staff College, University of Madras, Chennai – 600 005.</li><li>• Training in ESRI product ARCVIEW, at ESRI Training Centre, Chennai.</li><li>• Short-term training on Isotope Tracer Techniques for Water Resources, Development and Management held at CWRDM, Kozhikode sponsored by DST from 21st June to 26th June 2010.</li><li>• Short-term course for Research Guides in Social Sciences, Humanities and Sciences Held from 04.10.2010 to 08.10.2010 at Academic Staff College, University of Madras Sponsored by UGC.</li><li>• Orientation Training Course on Groundwater Development and Management, held at Central Groundwater Board, SECR, Chennai from 20 – 24 December 2010.</li><li>• Workshop cum Training on Analysis of Geology Degree Question Papers Carrying Tamil Version: Sponsored by Central Institute of Languages, National Testing Service, India, Mysore held during 17 – 18, February 2011 at Department of Marine Sciences, Bharathidasan University, Tiruchirappalli.</li><li>• Selected as Summer Research Fellow 2011 at Indian Institute of Remote Sensing, Ministry of Space, Government of India, Dehradun, During May – June 2011 sponsored by Indian Academy of Sciences, Bangalore.</li><li>• Training workshop on Isotope Hydrology held at National Institute of Hydrology, Roorkee under IWIN National Programme sponsored by DST – SERC, NIH, Roorkee and PRL, Ahmedabad from 19th Dec to 24th Dec 2011.</li><li>• Training on “Application of Surface Geophysical Surveys for Aquifer Mapping” Organized by Rajiv Gandhi National Ground Water Training &amp; Research Institute, Chattisgarh from 16<sup>th</sup> Organized by Rajiv Gandhi National Ground Water Training &amp; Research Institute, Ministry of Water Resources, Central Ground Water Board, September to 20th September 2013.</li><li>• Training on “Application of Surface Geophysical Surveys for Aquifer Mapping” Organized by Rajiv Gandhi National Ground Water Training &amp; Research Institute, Ministry of Water Resources, Central Ground Water Board, Raipur – 492 001, Chattisgarh from 16th September to 20th September 2013.</li><li>• Training on “Application of Borehole Geophysical Surveys for Aquifer Mapping” Ministry of Water Resources, Central Ground Water Board, Raipur – 492 001, Chattisgarh from 23rd September to 27th September 2013.</li><li>• Training on “NSS Orientation Training Course” Conducted by NSS Empanelled Training Institution, Madras School of Social Work, Chennai from 8<sup>th</sup> – 14<sup>th</sup> October 2014.</li><li>• Orientation Training on “Responsible Citizenship, Democratic Governance and Rule of Law” Organized by Rajiv Gandhi National Institute of Youth Development (RGNIYD) at Sriperumbudur from 15 – 16 April 2015.</li></ul>
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	<ul style="list-style-type: none"> <li>• Training for Trainers on “Employability Skills Through Life Skills Approaches” Organized by Rajiv Gandhi National Institute of Youth Development (RGNIYD) held at Sathyabama University, Chennai from 19 – 23, September 2014.</li> <li>• Inter Disciplinary Refresher Course in Environmental Sciences organized by Human Resource Development Centre (HRDC), Pondicherry University from 21<sup>st</sup> August to 3<sup>rd</sup> September 2019.</li> <li>• Participated in Workshop on Water Management in Taiwan and selected as BEST PARTICIPANT Held from 18.9.2019 to 01.10.2019, sponsored by ICDF, Taiwan.</li> <li>• e-Training on “Fundamentals of Mapping Techniques in Granite Greenstone Terrain” Conducted by FTC – Chitradurga, Geological Survey of India Training Institute, Hyderabad from 23 – 25 July, 2020.</li> <li>• Webinar Series on “Advances in Pure and Applied Chemistry” Conducted by PG and Research Department of Chemistry, Presidency College, Chennai from 6 – 7, August 2020.</li> <li>• e-Training on “9<sup>th</sup> Refresher Course in Exploration for Gold” Conducted by FTC-Chitradurga, Geological Survey of India Training Institute, Hyderabad from 17 – 24 August, 2020.</li> <li>• e-Training on “Refresher Course on Exploration for Ferrous Group of Minerals” Conducted by RTD, ER, Geological Survey of India Training Institute, Kolkata from 27<sup>th</sup> August – 4<sup>th</sup> September, 2020.</li> <li>• e-Training on “Engineering Geology and Landslide Studies” Conducted by RTD, SR, Geological Survey of India Training Institute, Hyderabad from 21– 16, September, 2020.</li> <li>• e-Training on “Application of Remote Sensing in Geosciences” Conducted by PGRS Division, Geological Survey of India Training Institute, Hyderabad from 26– 28, November, 2020.</li> </ul>
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### B) Research Projects carried out

S.No	Title of the Project	Name of the Funding Agency	Duration	Remarks
1.	“Estimation of Loss of Wetlands and Groundwater Deterioration in Thiruvallur District, Tamil Nadu using Remote Sensing and GIS”	University Grants Commission, New Delhi	3 years	Completed
2.	“Spatial Distribution of Uranium and Associated Water quality parameters in Groundwater / Drinking water of four districts (Sivaganga, Madurai, Theni and Dindigul) of Tamil Nadu”	Board of Research in Nuclear Science, DAE, BARC, Mumbai	2 years	Completed
3.	Assessment of High Salinity in Groundwater along Southern Ramanathapuram Coast, Tamil Nadu- Using Geochemical and Isotopic Techniques	Science and Engineering Research Board, Department of Science and Technology, Government of India	3 Years	Completed
4.	Jurassic Park in P – G Valley (SR009) – Pre IGC 2020 – Field Traverse	Geological Survey of India, New Delhi	1 year	Completed
5.	Cretaceous Stage Boundaries in Southern India (SR010) – Pre IGC 2020 – Field Traverse	Geological Survey of India, New Delhi	1 year	Completed

**C) Seminars, Conferences, Symposia Workshops etc. attended**

<b>Name of the Seminars / onference / Symposia / Workshops etc</b>	<b>Name of the Sponsoring Agency</b>	<b>Place and Date</b>
National Level Workshop on “Geomatic Based Natural Resources Disaster Mitigation and Management”	Ocean & Atmospheric Sciences and Technology Cell (OASTC), Ministry of Earth Sciences, New Delhi	Department of Industries and Earth Sciences, The Tamil University, Thanjavur from 22 – 26, February 2010.
Workshop cum Training on “Analysis of Geology Degree Question Papers Carrying Tamil Version”	Central Institute of Languages, National Testing Service, Mysore	Department of Marine Sciences, Bharathidasan University, Tiruchirapalli from 17.02.2011 to 18.02.2011
International Seminar on “Sustainable Development: Issues and Strategies”	DST – PURSE, New Delhi and Indian Geographical Society (IGS), Chennai	Department of Geography, University of Madras, Chennai from 3 – 4, December 2011.
Workshop on “Petroleum Exploration” (Industry – Academia 2013)	Association of Petroleum Geologist (APG – Southern Chapter), ONGC, Chennai	Department of Geology, Presidency College, Chennai from 28 January to 1 February 2013.
Workshop on “Census 2011 Data Dissemination”	Census of India, Government of India	Department of Geography, Presidency College, Chennai on 18, April 2013.
National Conference of “Tamil Aiyvu Kalangal”	Tholtamil Arakattalai, Chennai	Department of Tamil, Presidency College, Chennai from 18 – 20, December 2013.
Workshop on “Sevveial Noolgal, Uraigal, Pathipugal – Padaverupadugal”	Central Semmozhi Tamil Aiyvu, Chennai	Department of Tamil, Presidency College, Chennai on 19, February 2014.
National seminar on “Groundwater and Coastal Aquifers”	UGC – SAP, New Delhi	Department of Applied Geology, University of Madras, Chennai on 9 <sup>th</sup> and 10 <sup>th</sup> March, 2016.
Workshop on “Generation of National Database on Uranium in Drinking Water”	Health Physics Division; Health, Safety and Environment Group, BARC, Mumbai	BARC, 8 – 10, February 2017.
International Conference on “Computer Simulations in Natural Sciences (SIMSCI 2018)”	Presidency College, Chennai	Department of Computer Science, Presidency College, Chennai from 4 – 6, April 2018.
Webinar on “Patents – Basic and in Pandemics”	IQAC, Presidency College, Chennai	Presidency College, Chennai on 31, May 2020.
National Workshop on “Recent Advances in Geosciences”	Dr. B.R. Ambedkar University, Srikakulam	Department of Geology, B.R. Ambedkar University, Srikakulam on 31, July 2020.
Webinar on “Effective Online Teaching”	IQAC, Presidency College, Chennai	Presidency College, Chennai on 4, August 2020.
Webinar on :Recent Advances in Geological Research”	Fakir Mohan University, Odisha	Department of Geology, Fakir Mohan University, Odisha on 5, August 2020.

National webinar on “Geomagnetic Field in Geosciences”	Dr. B.R. Ambedkar University, Srikakulam	Department of Geology, B.R. Ambedkar University, Srikakulam on 4, September 2020.
National Workshop on “Geospatial Technologies Application”	Presidency College, Chennai	Department of Geography, Presidency College, Chennai from 27 – 30, October 2021.

### iii) Teaching Experience

Courses Taught	Name of University/ College/Institution	Duration	Years of Experience
		Period of employment From - To	
Hydrogeology, Structural Geology, Remote Sensing and GIS, Geochemistry, Crystallography	Department of Geology, Presidency College, Chennai – 600 005.	26.12.2007 to 08.11.2022	15 years
Hydrogeology, Structural Geology and Crystallography	Department of Geology, Government Arts College, Coimbatore – 641 018.	09.11.2022 to till date	10 months

**Total Teaching Experience (in years and months) :**

a)	Under-graduate	15 Years
b)	Post-graduate	15 years
c)	Research	20 Years

### viii) Innovations/ Contributions in Teaching

a) Design of Curriculum :	Member- Board of Studies – Alagappa University, University of Madras, Periyar University and Dr.MGR Deemed University
b) Teaching methods :	Developed Smart classrooms in Department of Geology, Presidency College, Chennai – 600 005.
c) Laboratory experiments :	Handled Geological equipment like geophysical instruments, Atomic Absorption Spectrophotometer, Flame Photometer, Spectrophotometer, Brunton compass, clinometer compass. Water Quality Analytical equipment.

d) Evaluation methods :	<ul style="list-style-type: none"> <li>Chairman in B.Sc., Geology Evaluation Board in Bharathiyar University – June 2023.</li> <li>Member in valuation board in University of Madras for UG and PG subjects from 2007 to Till date.</li> </ul>
e) Preparation of resource material including books, reading materials, laboratory manuals etc.:	<ul style="list-style-type: none"> <li>Prepared Tamil Version Question Papera for Geology Degree - Bharathidasan University, Tiruchirappalli.</li> <li>Chairman and Member is B.Sc., Question Paper Board in Periyar University, Salem.</li> <li>Prepared two field trip guides for International Geological Congress (IGC 2020) – Published by Geological Survey of India, Government of India.</li> </ul>
f) Remedial Teaching / Student Counseling (academic) :	
g) Any other :	--

## IX) Research Contribution

### a). PhD/M.Phil undergoing scholars

Sl. No	Name of the PhD/ M.Phil (PT/FT) Scholar	Name of the University	Broad Field	Registration Number	Year of registration
1.	Mr. R.Vijaykumar (Ph.D - Part-time)	University of Madras	Petrology and Structural Geology	-	2016
2.	Mr. A. Sivakumar (Ph.D - Part-time)	University of Madras	Environmental Geology	-	2021
3.	Mr. E. Gopi (Ph.D - Part-time)	University of Madras	Hydrogeology	-	2022
4.	Ms. Mini Chandran (Ph.D - Part-time)	University of Madras	Hydrogeology	-	2022

### b). PhD/M.Phil Awarded

S.No	Name of the PhD/M.Phil (PT/FT) scholar	Name of the University	Title of the thesis	Year of registration of the scholar	Year of award of PhD
1	T.R.Neethu (M.Phil., Candidate)	University of Madras	“Hydrogeological Evaluation of Part of Chennai Aquifer, Tamil Nadu”	2010	2011
2	K.Jothi (M.Phil., Candidate)	University of Madras	“Geospatial Application in Flood Management – A Case Study along Coastal Blocks of Thiruvallur District, Tamil Nadu”	2011	2012

S.No	Name of the PhD/M.Phil (PT/FT) scholar	Name of the University	Title of the thesis	Year of registration of the scholar	Year of award of PhD
3	M.Saravanan (M.Phil., Candidate)	University of Madras	“Hydrogeochemical Evaluation of Part of Thiruvallur District, Tamil Nadu”	2011	2012
4	N.Ananthavali (M.Phil., Candidate)	University of Madras	“Groundwater Quality Studies of Marakkanam Block, Villupuram District, Tamil Nadu”	2012	2013
5	M. Akilandeshwari (M.Phil., Candidate)	University of Madras	“Hydrogeological Investigations of Olakkur Sub Basin, Tamil Nadu, India”	2013	2014
6	K. Mohan Raj (M.Phil., Candidate)	University of Madras	“Integrated Hydrogeological studies of Melpakkam and Marakkanam Mini Water shed, Tamil Nadu”	2013	2014
7	Shri. Alaparathi Sreenivas (Ph.D., Candidate)	University of Madras	Evaluation of Groundwater Regime for Sustainable Management in Hard Rock Aquifers in Parts of Dindigul District, Tamil Nadu	2011	2021
8	Shri. K. Kumaresan (Ph.D., Candidate)	University of Madras	Hydrogeological Characterization by Specific Yield Determination for Deciphering Recharge Areas of Unconfined Aquifer System in Parts of Araniyar - Kortalaiyar (A.K) Basin, Tamil Nadu, India	2011	2020
9	Shri. S.Senthilkumar (Ph.D., Candidate)	University of Madras	Integrated Groundwater Studies and Hydrochemical Modeling of Coastal Blocks of Thiruvallur District, Tamil Nadu, India	2011	2015
10	Shri. N. Ramesh Kumar (Ph.D., Candidate)	University of Madras	Disposition of Aquifer System and Groundwater Modeling in Part of Gadilam, Paravanar, Lower Vellar Watersheds, Cuddalore District, Tamil Nadu	2013	2017
11	Shri. V.S.T. Gopinath (Ph.D., Candidate)	University of Madras	Geoelectrical Imaging Techniques and Hydrogeological Studies for Sustainable Management in Ongur	2013	2017

S.No	Name of the PhD/M.Phil (PT/FT) scholar	Name of the University	Title of the thesis	Year of registration of the scholar	Year of award of PhD
			River Sub Basin, Tamil Nadu, India		
12	Shri. R. Ganesh (Ph.D., Candidate)	University of Madras	Landslide Hazards and Vulnerability Studies in Mettupalayam to Aravankadu Highway, Coimbatore and Nilgiri Districts, Tamil Nadu, India	2012	2019
13	Smt. K. Jothi (Ph.D., Candidate)	University of Madras	Hydrogeological Scenario in Semi Urban and Rural Regions - A Case Study Along Parts of Thiruvallur District, South India	2014	2020
14	Smt. M.K. Manimegalai (Ph.D., Candidate)	University of Madras	“Hydrogeochemical Behaviour and Groundwater Classification for Sustainable Management of Gadilam River Basin, Tamil Nadu, India - An Integrated Approach”	2014	2020
15	Shri. K.Vinodh (Ph.D., Candidate)	University of Madras	Groundwater Suitability and Potential Mapping Based on Geochemical, Electrical Resistivity, Remote Sensing and GIS Techniques in Theni District, Tamil Nadu, India	2015	2021
16	Shri. S. Nagarajan (Ph.D., Candidate)	University of Madras	Hydrogeological Investigation and Environmental Impact In and Around Pallavaram Industrial Area, Chengalpattu District, Tamil Nadu, Southern India	2016	2022

### **X) Extension Work/ Community Service**

**A) Please give a short account of your contribution to:-**

- Received Best Liaison Officer from the Ministry of Tourism, Government of Tamil Nadu for the coordination of Education Department in the 41<sup>st</sup> India Tourism and Industrial Fair Held in Chennai during the Months of December 2014 to March 2015.
- Acted as Camp Officer in the State Republic Day Parade Camp – 2018.
- Coordinated with Controller of Examinations in conducting Semester exams and valuation camps.

**B) Positions held / leadership role played in organizations linked with Extension Work National**



Service Scheme (NSS), or NCC or any other similar activity-

- NSS Programme Officer in Presidency College for 3 years (2014-2017). Conducted many skill development programmes for students within the college and outside the college campus.
- Received Certificate of Appreciation for Collection of more than 100 units of Blood Donation in a single camp Organized in the College Campus.

### C. Participation in Corporate Life

Please give a short account your contribution to:

a) College/ University / Institution	Presidency College (Autonomous) Chennai – 600 005.
b) Co-curricular Activities	Represented Presidency College for Table Tennis – Intercollege Competitions in Chennai
c) Enrichment of Campus Life (Hostels, sports, games, cultural activities)	Mobilized CSR funds from ONGC to construct Boys and Girls Toilet in the College campus.
d) Students Welfare and Discipline	Member in College Discipline committee
e) Membership / Participation in Bodies	Member in many organizing committee in the college like Annual Day, Sports Day, International Conference, etc.
f) Professional Organization of Teachers	<ul style="list-style-type: none"> <li>• Member, Board of Studies in Periyar University, Salem, Alagappa University, Karaikkudi, Dr.M.G.R. University, Chennai, University of Madras, Chennai.</li> </ul>

D.(a) Membership of Professional Bodies, Societies, Editorship of Journals etc.

- **Member, State Level Expert Appraisal Committee, Tamil Nadu - Ministry of Environment, Forest and Climate Change, Government of India.**
- **Member, Honourable National Green Tribunal (NGT) Inspection Committee, Government of India.**
- Life Member in Indian Association of Hydrologist, Roorkee, Uttarakhand, India
- Life Member in Gondwana Geological Society, University Department of Geology, Nagpur University, Nagpur, India.
- Life Member in Palaeontological Society of India, Center of Advanced Study in Geology, University of Lucknow, Lucknow, India.
- Life Member in Association of Petroleum Geologist, Dehradun, Uttarakhand, India.

E. Any other information

### TRAININGS / WORKSHOP CONDUCTED

- Conducted 2 Days **Field Training** for newly recruited Geologists of ONGC in July 2019.

- Conducted 5 days National Level Workshop on **RECENT TRENDS IN PETROLEUM GEOLOGY** in association with Oil India Limited, Noida and Oil and Natural Gas Corporation Limited, Chennai from 02.12.2019 to 06.12.2019.
- Conducted one day orientation program on **MINING AND PETROLEUM ENGINEERING BASIC CONCEPTS** in Association with Department of Mining Engineering, AMET University, Kanathur on 05.02.2020.
- Conducted 5 Days National Level Webinar Series on **GEOLOGICAL SCIENCES** in association with Geology Department Alumni Association from 22.06.2020 to 26.06.2020.
- Conducted 1 Day **Field Training** for Geophysicists of ONGC in February 2023.

#### **SPECIAL LECTURES DELIVERED**

- Acted as Resource Person / Chief Guest in more than 10 Seminars, Conference and Workshops.
- Delivered Lecture on **Environmental Geochemistry** at Nethaji Subhash Chandra Bose, Indian Cultural Centre, High Commission of India, **KUALA LUMPUR, MALAYSIA** on 23.02.2019.
- Participated in **Workshop on Water Management** Held in **TAIWAN** and got **BEST PARTICIPANT AWARD** during September 2019

**(Signature of the Teacher)**