



गुजरात केन्द्रीय विश्वविद्यालय  
CENTRAL UNIVERSITY OF GUJARAT

# CENTRAL UNIVERSITY OF GUJARAT

(Established by an Act of Parliament of India, No. 25 of 2009)

## SCHOOLS, CENTRES OF STUDIES AND PROGRAMMES OFFERED

### SCHOOL OF CHEMICAL SCIENCES

The School of Chemical Sciences (SCS) is a unique centre for learning that fosters innovative scientific ideas through an interdisciplinary approach and interactive teaching and research in frontal areas of the chemical sciences. The School pursues research in applied and green chemistry, nano-chemistry, polymer chemistry, petroleum products, supramolecules and macromolecules, kinetics and catalysis, physical organic chemistry, synthetic organic and inorganic chemistry, nanochemistry, and bioorganic chemistry. The students at the School undergo several levels of learning with more extensive and more in-depth exposure to virtually every aspect of chemical sciences: theoretical, applied, instrumental, computational, experimental, and physicochemical understanding. The syllabus of M.Sc. chemical sciences is designed in such a way that it helps students understand and enhance their knowledge about the subject for qualifying any of the national level entrance examinations and deepen their creative outlook. The School provides professional training and research practice, which helps to develop advanced scientific and research skills of the students. After course completion, students are eligible to become a researcher, project assistant, project associate, junior research fellow, senior research fellow, scientific writer, subject matter expert, faculty members, scientists, and others.

Faculty and students of the School have been publishing their research findings in reputed international journals, books, and science magazines. The School has been pursuing innovative approaches and playing a vital role in linking the results of science and their usage in society and endeavouring to bridge the gap between physical and biological sciences. The indigenously developed methodology has also gained further importance due to interdisciplinary approaches in various fields like nanotechnology, renewable energy, bio-inspired molecules, multifunctional supramolecules, and green engineering to a level of successful technology transfer to industries. These sciences are useful to design and develop new molecular entities and methods to apply in various fields, such as defence, electronics, communication, and space research. The School offers the choice-based credit systems (CBCS) learning.

As per the expertise of the faculty members, the School conducts innovative and advanced optional short term and certification courses along with the primary course curricula. Seminars, workshops, interactions, and discussions are regularly organized for academic development and knowledge enrichment with equal opportunities. The congenial academic environment for creative learning, interacting, expressing ideas is being maintained in the School so that the talent of students is expressed without hesitation for innovative, productive, and advanced learning and research. The School takes the utmost care of each and every student for excellent learning and shaping up as an accountable and responsible citizen. The School offers the following courses.

#### Programmes Offered

1. M.Sc. in Chemical Sciences
2. Ph.D. in Chemical Sciences
3. Certificate Course on Analytical Technique for Visually Challenged (ATVC) (Six Months)

#### Faculty Profile

##### **Prof. Man Singh, Senior Professor and Dean**

**Research Interests:** Thermodynamics of molecular interactions of structural liquid mixtures, nanoemulsion, and graphene structural modifications.

E-mail: mansingh@cug.ac.in

##### **Prof Dinesh Kumar, Professor**

**Research Interests:** Bioactive metal-based macromolecular and Schiff base complexes, nano catalysis, and development of nanosensors and nanoadsorbents.

E-mail: dinesh.kumar@cug.ac.in

##### **Dr. Dhananjoy Mondal, Assistant Professor**

**Research Interests:** Synthesis of bioactive natural products, organo-nanoconjugates, and peptidomimetics.

E-mail: dhananjoym@cug.ac.in

##### **Dr. Dandamudi V. Lenin, Assistant Professor**

**Research Interests:** Synthetic organic chemistry, synthesis of bioactive molecules, and application of organo and nano catalysis.

E-mail: lenindv@cug.ac.in

##### **Dr. Gururaja G. N., Assistant Professor**

**Research Interests:** Organic synthesis, fluorine chemistry, asymmetric synthesis, synthesis of bioactive and natural products, NHC carbene and organo-catalysts, and graphene-based nano-catalysts.

E-mail: gururaja.n@cug.ac.in

**Dr. Panchami Prabhakaran, Assistant Professor**

**Research Interests:** Bioorganic Chemistry: Biomimetic and supramolecular chemistry, Inhibitors of macromolecular interactions and therapeutics bioconjugation and drug delivery E-mail: panchami.p@cug.ac.in

## SCHOOL OF EDUCATION

Established in 2017, the School of Education in the Central University of Gujarat offers a flagship programme of the University— M.Ed. and Ph.D. programmes in Education. These programmes aim to equip students with the requisite academic and professional skills in Education and teacher education. The courses offered by School of Education aims at helping the students to explore the most challenging and exciting questions in educational research, policy, and practice and enable them to shape the future world with the transformative power of education. It would prepare experienced teacher educators for performing various roles in schools, non-profit organizations, government agencies, and beyond. The school is committed to advancing diversity, equity, and inclusion across our curriculum, in our classrooms and in our campus culture.

The School of Education is proud to announce that it was awarded prestigious funding under **Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNMTT)** by the Department of Higher Education, Ministry of Education, Government of India in the academic year 2019-20. Under this scheme, the School has two Centres:

- **Centre for Policy Research in Education**
- **Centre for Professional Development of Teacher Educators**

The school is in the process of extending the funding award for the next five years.

### Programmes offered

1. **Ph.D. in Education**
2. **M.Ed.**

### Faculty Profile

#### **Prof. (Dr.) H. B. Patel, Professor and Dean School of Education**

Research Interests: Educational Research, Educational Leadership, Administration & Management, Educational Evaluation & Measurement, ICT in Education, Women Education, Teacher Education, International & Comparative Education and Entrepreneurship Education.

**Email:** hbpatel@cug.ac.in

#### **Dr. Jayendrakumar N. Amin, Associate Professor**

Research Interests: Educational Psychology, Teacher Education, Elementary Education and ICT in Education.

**Email:** j.amin@cug.ac.in

#### **Dr. Gavisiddappa R. Angadi, Associate Professor**

Research Interests: Educational Technology, ICT in Education, Action Research, Science Education and Teacher Education.

**Email:** gavimahi@cug.ac.in

#### **Dr. Y. Vijaya Lakshmi, Assistant Professor**

Research Interests: Teacher Education, ICT in Education and Elementary Education.

**Email:** vijaya.lakshmi@cug.ac.in

**Dr. Shamim Aara Hussain, Assistant Professor**

Research interests: Educational Psychology, Educational Technology and Science Education.

**Email:** shamimaara@cug.ac.in

**Dr. Shilpa S. Popat, Assistant Professor**

Research interests: Environmental and Science Education, Educational Measurement and Evaluation.

**Email:** shilpaspopat@cug.ac.in

## SCHOOL OF ENVIRONMENT AND SUSTAINABLE DEVELOPMENT

The man-environment relationship indicates that pollution and deterioration of the environment have a social origin. Environment pollution has become a major global concern. Global society is facing the challenge of improving the quality of air, water, soil, environment and maintaining the ecological balance. The growth of industrialization, urbanization, modern agricultural development and energy generation has resulted in the indiscriminate exploitation of natural resources for fulfilling human desires and needs, which has contributed in disturbing the ecological balance on which the quality of our environment depends. In recent time, one of the major issues is the threat to human life from the progressive deterioration of the environment. Today we have environmental problems such as acid rain, ozone depletion, global warming, climate change, effects of pesticides and fertilizer, Solid waste, hazardous waste- Treatment & disposal. Roots of these problems are a lack of adequate awareness, knowledge, and understanding of our environment. Sustainable development emphasizes the use of natural resources and employing eco-friendly technology for production, processing, and operation in industries and making societies ready for environmental development and management.

The School of Environment and Sustainable development is offering M.Phil. / Ph.D. programme since its inception in 2011. M.Sc. in Environmental Sciences was introduced during the academic year 2015-16 to support the basic research understanding in the field. Environmental Sciences is an interdisciplinary field of study. M.Sc. in Environmental Sciences covers ecology; ecosystem; biodiversity; natural resources; environment and energy; environmental pollution; pollution control technology; environmental monitoring and assessment; green technology; environmental laws and regulation; instrumentation and statistics; Industrial hygiene and safety; environmental toxicology; environmental biotechnology and nanotechnology; sustainable development and management.

The School of Environment and Sustainable Development achieved EDUCATION LEADERSHIP AWARD by 21st Business School Affairs (BSA) and Dewang Mehta Business School

School is focusing on Technology Transfer from lab to land for Developing Ecovillage to benefit the society

### Programmes offered

1. Ph.D. in Environment and Sustainable Development
2. M.Sc. in Environmental Sciences

### Faculty Profile

#### Prof. Bhawana Pathak, Professor & Dean

Research Area: Plant behavior Ecology; Biodiversity conservation; Environmental Biotechnology/nanotechnology; climate change

Email: bhawana.pathak@cug.ac.in

**Prof. R. Y. Hiranmai, Professor**

Research Area: Organic farming; Vermi- technology; Solid Waste management

Email: Rhiranmai.yadav@cug.ac.in

**Prof. Pallavi Sharma, Professor**

Research Area: Stress Biology of Plants, Environmental Molecular Biology, Environmental Biochemistry and Biotechnology, Phytoremediation

Email: pallavi.sharma@cug.ac.in

**Dr. Rajesh Singh, Assistant Professor**

Research Area: Bio-electrochemical wastewater treatment, Pollution monitoring

Email: rajesh.singh@cug.ac.in

**Dr. Paulami Sahu, Assistant Professor**

Research Area: Hydrogeology, Groundwater pollution, Groundwater Management, Remote Sensing and GIS.

Email: paulami\_sahu@cug.ac.in

**Dr. Kumari Rina, Assistant Professor**

Research Area: Hydrogeology, Geochemistry, Water Resource Management, Natural resource management, remote sensing and GIS, Land use/Land cover studies

Email: rina.sesd@cug.ac.in

**Dr. Dheeraj Rathore, Assistant Professor**

Research Area: Ecology, Stress Physiology, Physiology of Biofuel Production and sustainable agriculture

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## SCHOOL OF INTERNATIONAL STUDIES

### About the School

The School of International Studies (SIS) was established in 2009. It focuses on creating new and relevant knowledge in the core areas of International Relations. The School has Centre for International Politics. The School will pursue research in areas such as Theories of International Relations, International Organisations, International Trade and Development, International Law, and Globalisation. Besides the other global areas, the School's immediate area of focus is on India's immediate and extended neighbourhood.

### Centre for International Politics

The Centre for International Politics (CIP) was established in 2012. The Centre offers a standalone M.Phil. and standalone Ph.D. programme in International Politics. Academic activities at the Centre takes place within the framework of the discipline of International Relations (IR). Teaching and research in the theory and practice of international politics are the core concerns of the Centre. The Centre's objective is to disseminate the existing knowledge and generate new knowledge, pertaining to issues of IR through teaching and research. The centre aims to train new generation of scholars and analysts in IR and aspires to inculcate much needed interest in the discipline. Courses facilitate the comprehension of complex issues of significance within the broad context of IR. Two courses on research methodology are intended to equip and train students in the methods and techniques of research, the methodological debates and issues in social sciences, as well as the basic approaches and concepts of analysis.

### Programmes offered

1. M.A. in Politics and International Relations
2. Ph.D. in International Politics

### Faculty Profile

**Dr. Manish; Professor and Dean, School of International Studies**

**Research Interests:** Foreign Policy, Arms Control, Disarmament, Terrorism and South Asia

**Email:** manish@cug.ac.in

**Dr. Saurabh Sharma; Assistant Professor**

**Research Interests:** Post-conflict governance, Peace Studies, Terrorism, Small Arms Proliferation and Drug Trafficking in South and Central Asia

**Email:** saurabh.sharma@cug.ac.in

**Ms. Eva Loreng; Assistant Professor**

**Research Interests:** Theories of international relations, globalization, diaspora, culture, migration, soft power.

**Email:** eva.loreng@cug.ac.in



## SCHOOL OF LANGUAGE, LITERATURE AND CULTURE STUDIES

School of Language, Literature and Culture Studies (SLL&CS) runs undergraduate, postgraduate and research programmes in various subjects related to Humanities such as the study of Indian and foreign languages and comparative study of literature and cultures. Issues related to gender, caste, race, and processes of exclusion and marginalization in society, questions related to migration and identity of diaspora communities from some of the core areas of study in the courses offered by the School. All the programmes are interdisciplinary and innovative in nature and prepare students for employment in teaching, research, print and visual media, administration, publishing, editing and emerging areas such as technical writing and content development.

Classroom lectures are designed to ensure students' participation and involvement. Teachers also use seminars, workshops, and films to impart instruction. Students have to submit assignments, projects, and papers regularly as part of their coursework. They are also required to make presentations/give seminars on topics related to their subjects. Students' participation in the classroom is given special weightage in evaluation. In each semester there is a mid-semester examination and an end-semester examination. All the centers of the School arrange lectures by learned experts and hold workshops and seminars on new fields/areas of the subject. The School currently has the following centres and programmes of study.

**Dean of School:** Prof Sanjeev Kumar Dubey, **Email:** sanjeev.dubey@cug.ac.in

### Centre for Comparative Literature and Translation Studies

The Centre for Comparative Literature and Translation Studies at the Central University of Gujarat has been at the forefront of examining and debating on the future trends within comparative Literature in the last few years. The centre has been focused with its activities and at present has reshaped and reoriented the centre towards the larger debate of Indian Literatures and its context within Asia and Asian Studies. The thrust of the centre at present is on the larger geopolitical definitions of examining Indian Comparative Literature as a confluence of many traditions within the larger Asian paradigm. This is to construct the larger orientation of the centre ahead as a premier research oriented Asian Studies Centre in the future. The thrust of the centre ahead is on the following:

Asian Literatures, World Literatures, Comparative Indian Literatures, Translation, Cultural forms, Historiography, Comparative art forms, Folklore, Linguistics and Languages

#### Programmes Offered

1. Ph.D. in Comparative Literature

#### Faculty Profile

##### Prof Balaji Ranganathan, Professor and Chairperson

Areas of Expertise: Psychoanalysis, Orientalism, Asian and Oriental Studies, 19<sup>th</sup> and 20<sup>th</sup> century Indian political discourse, archaeology and numismatic studies of early India, development of early and medieval Indian bronzes and art history.

**Email:** balajiranganathan@cug.ac.in

**Dr. Zarana Maheshwari, Assistant Professor**

Areas of Expertise: Translation studies and practice, travel writing, colonial literature, public sphere.

**Email:** zarana.maheshwary@cug.ac.in

**Dr. Zakia Firdaus, Assistant Professor**

Areas of Expertise: North American Native fiction; Canadian Literature; Gender Studies; Post-Colonial Literature; Indian Writing in English.

**Email:** zakia.firdaus@cug.ac.in

**Ms. Niveditha Kalarikkal, Assistant Professor**

Areas of Expertise: her areas of specialization are Translation Studies and History of Print in Kerala.

**Email:** niveditha.kalarikkal@cug.ac.in

### Centre for English Studies

The Centre for English Studies was established in the year 2010. English Studies is an area that has undergone a sea-change in the last two decades. While the debate about the place of English in India is not a new one, a more nuanced understanding of the different literatures in India has become possible due to recent and exciting research in the fields of literary history, translation studies, culture studies, and performance studies. The course content reflects the changed contours of the discipline of English Studies. The overall objective of the programmes is to train the students to think critically about language, literature, and culture. The Centre offers the following programmes:

**Programmes offered**

1. M.A. in English
2. Ph.D. in English

**Faculty profile****Prof. Atanu Bhattacharya, Professor and Chairperson, CES**

Research Interests: English Language Studies, Cultural Studies, Digital Technology Studies, Bengali Science Fiction

**Email:** atanu@cug.ac.in

**Dr. Ishmeet Kaur Chaudhry, Assistant Professor**

Research Interests: Literatures from the Margins, Women Studies, Translation and Sikh Studies

**Email:** ishmeet@cug.ac.in

**Dr. Dhara Chotai, Assistant Professor**

Research Interests: Life Writing, Literary Historiography, Comparative Indian Literature, Translation Studies

**Email:** dhara.chotai@cug.ac.in

**Ms. Anupama A., Assistant Professor (On Contract)**

Research Interests: 20th Century American Literature, Modernism, Editorial Theory, Literary History, Psychoanalysis

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## हिन्दी अध्ययन केन्द्र

भाषा केवल अभिव्यक्ति एवं संपर्क का माध्यम ही नहीं है, बल्कि वह सामाजिक सोच, सामासिक संस्कृति और सामूहिक मानसिकता के निर्माण में महत्वपूर्ण भूमिका निभाती है। भारत जैसे बहुभाषी और बहुसांस्कृतिक देश की राजभाषा एवं संपर्क भाषा होने के साथ-साथ हिन्दी विभिन्न भाषा-भाषी समाजों और संस्कृतियों के बीच अंतःसंवाद का माध्यम भी है। गुजरात केन्द्रीय विश्वविद्यालय का हिन्दी अध्ययन केन्द्र शैक्षिक एवं सामाजिक प्रतिबद्धता के साथ उपेक्षित समूहों को केन्द्र में लाने की प्रक्रिया में हिन्दी भाषा एवं साहित्य की भूमिका को महत्वपूर्ण मानता है। हिन्दी अध्ययन केन्द्र अपने गहन दायित्व और भूमिका के अनुरूप विभिन्न साहित्यिक-शैक्षणिक गतिविधियों का आयोजन करता रहता है। पाठ्यक्रम की आवश्यकताओं के अनुरूप विविध विषयों पर विशिष्ट व्याख्यानों, राष्ट्रीय-अंतरराष्ट्रीय परिसंवादों / संगोष्ठियों एवं कार्यशालाओं के आयोजन द्वारा विद्यार्थियों के अकादमिक उन्नयन और समग्र विकास के प्रति हिन्दी अध्ययन केन्द्र कृत संकल्प है। विगत दशकों में रोजगार के विभिन्न क्षेत्रों में हिन्दी के विद्यार्थियों के लिए विकसित हुए नये अवसरों को ध्यान में रखकर हिन्दी भाषा एवं साहित्य अध्ययन केन्द्र ने अपने एम.ए. पाठ्यक्रम का निर्माण किया है। केन्द्र के एम.ए. पाठ्यक्रम में आधारभूत पाठ्य-पत्रों के साथ ही हिन्दी पत्रकारिता, रेडियो, टी.वी. एवं वेब माध्यम, हिन्दी सिनेमा, प्रयोजनमूलक हिन्दी, अनुवाद तथा प्रवासी साहित्य जैसे विषयों को प्रमुखता से स्थान दिया गया है। विद्यार्थियों की क्षमता और दक्षता का मूल्यांकन करने के लिए पाठ्यक्रम के अंतर्गत पुस्तक समीक्षा, मोनोग्राफ लेखन, साक्षात्कार, पटकथा लेखन, मीडिया लेखन, रूपांतरण, शोध पत्र लेखन, कार्यालयीन पत्र लेखन और अनुवाद आदि विषयों पर प्रकल्प कार्य निर्धारित किए गए हैं। केन्द्र के समस्त पाठ्यक्रम अपने स्वरूप एवं प्रकृति में अन्तर-अनुशासनात्मक हैं। पीएच.डी. के कोर्स वर्क के अंतर्गत अनिवार्य शोध प्रविधि और प्रक्रिया के साथ स्त्री, दलित, आदिवासी, अल्पसंख्यक तथा हाशिये के समाज पर केंद्रित साहित्य की विविध विधाओं, आधुनिक साहित्य सिद्धांतों, तुलनात्मक साहित्य, लोक साहित्य, संस्कृति, सिनेमा, अनुवाद एवं मीडिया अध्ययन आदि विषयों पर विशेष जोर दिया गया है।

### केन्द्र के पाठ्यक्रम:

1. हिन्दी में एम. ए.
2. हिन्दी में पीएच. डी.

### संकाय सदस्य:

प्रो. संजीव कुमार दुबे, प्रोफेसर एवं अध्यक्ष, हिन्दी अध्ययन केन्द्र

शोध रुचि: हिन्दी कथा साहित्य, आधुनिक कविता, प्रयोजनमूलक हिन्दी, हिन्दी पत्रकारिता एवं मीडिया अध्ययन

ईमेल: sanjeev.dubey@cug.ac.in

**डॉ. प्रमोद कुमार तिवारी, असिस्टेंट प्रोफ़ेसर**

शोध रुचि: भाषा, लोक साहित्य, अंतरानुशासनात्मक अध्ययन, शिक्षा और आधुनिक कविता

ईमेल: pramod@cug.ac.in

**डॉ. गजेन्द्र कुमार मीणा, असिस्टेंट प्रोफ़ेसर**

शोध रुचि: आधुनिक हिन्दी कविता और आदिवासी साहित्य

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### CENTRE FOR GERMAN STUDIES

The Centre for German Studies was established in 2011 with the objective of expanding knowledge, learning and research on German language, literature and culture in India and contributing to India's close links with Germany. Its courses are designed to familiarize students with the culture and society of the past and present German speaking world through a rigorous training of writing, reading, comprehension and skills in German language. Allied courses are also offered to students for nurturing their interests in interdisciplinary research areas like translation studies, culture studies, literary theory, etc. The Centre emphasizes student-centric interactive learning which gives students a space for personal development. The Centre offers the following programmes:

#### Programmes Offered

1. B.A. (Hons.) in German Studies
2. M.A. in German Studies
3. Ph.D. in German Studies

#### Faculty Profile

**Ms. Jaspreet Kaur Layal, Assistant Professor & Coordinator**

Research interests: Literary translation of German Children's and Juvenile Literature; Film adaptations of Children's and Juvenile Literature; Subtitling and dubbing.

Email: jaspreet.layal@cug.ac.in

**Dr. Vinai Kumar Donthula, Assistant Professor**

Research interests: DaF, Linguistics, and Translation.

Email: vinaikumar@cug.ac.in

**Dr. Roshan Lal Jahel, Assistant Professor**

Research interests: German Literature, DaF and German Cinema.

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## CENTRE FOR CHINESE STUDIES

Chinese language learning has emerged as a major academic discipline in today's world. The interaction between India and China has a history of more than two thousand years. China is India's largest neighbor and biggest trading partner. As neighbors, India and China have much in common in terms of values and worldviews. Besides being the two most populous countries of the world, India and China have also emerged as two largest developing countries.

There has always been a need to enhance mutual understanding between China and India. Presently with the unprecedented growth of China, there is a felt need to have scholars well-versed in Chinese language, who could efficiently fill various lacunas present in the domain of Chinese Studies in India. In order to nurture such scholars, the Central University of Gujarat has established the Centre in the year 2011. Centre is equipped with a fully functional language lab, which offers a state of art teaching-learning experience. Students from the Centre have been regularly awarded scholarships to pursue higher studies in China by MHRD, Govt. of India and China Scholarship Council, China. Centre students have also been selected as members of Youth Delegations sent to China by Govt. of India.

Excellent job opportunities are available for students after completion of the courses in academia, research organizations, government, and private sectors. Right since its inception, the Centre is maintaining an excellent placement record. Growing trade and investment between India and China offer excellent employment opportunities to Chinese language experts. The Centre offers the following programmes:

### Programmes Offered

1. B.A. (Hons.) in Chinese
2. M.A. in Chinese

#### B.A. (Hons.) in Chinese

The 6-semester course has been designed to enable students acquire advanced skills of reading, writing, listening, speaking, comprehension and translation in Chinese language. The course also equips students with a good base in Chinese literature, culture, society, history and politics. It emphasizes on multi-sensory learning using audio and visual presentations and learning through continuous practice. The stand-alone 148 credit B.A. (Hons.) programme is being offered from the academic year 2018-19. Students who have successfully completed their 10+2 (Senior Secondary/Intermediate) in any stream may apply for the programme.

#### M.A. in Chinese

The M.A. programme consists of total 4 semesters. In the four semesters, the programme offers specialized courses in a range of fields like Chinese literature, literary movements, periods in literary history, translation & interpretation, linguistics, evolution of Chinese language, the cultural and political history of China, China's strategic thoughts, government and politics in China and so on. Over the four semesters of the M.A., in each semester the students are also required to write a dissertation on an area of their choice. Students who have successfully completed their B.A. in Chinese may apply for the programme.

#### Faculty Profile

##### Swami Kundan Kishor, Assistant Professor & Coordinator

Research interests: Poetry Translation, Journalistic Translation, Traditional Chinese, Chinese History, Folk Literature, Ancient Chinese Literature.

Email: swamiyadav@cug.ac.in

**Prabhat Kumar, Assistant Professor**

Research interests: Chinese Language, Literature, Culture; Chinese Media & Society; Translation & Interpretation.

**Email:** prabhat@cug.ac.in

**Nishant Kumar, Assistant Professor**

Research interests: Modern & Contemporary Chinese Literature, Chinese Language & Linguistics, Translation/Interpretation, History, Society & Culture of China.

**Email:** nishant.kumar@cug.ac.in

**Prashant Kaushik, Assistant Professor**

Research interests: Chinese Language and History, Translation, Translation Theory, Interpretation.

**Email:** prashant.kaushik@cug.ac.in

**Priyanka Dhargave, (Guest Faculty)**

Research interests: Chinese Language and Literature, History and Culture of China, Translation, Interpretation.

**Email:** priyankajnu2007@gmail.com

## ગુજરાતી ભાષા - સાહિત્ય કેન્દ્ર

### Centre for Gujarati Language and Literature

ગુજરાત કેન્દ્રીય વિશ્વવિદ્યાલય, ગાંધીનગરમાં ગુજરાતી ભાષા - સાહિત્ય કેન્દ્રનો પ્રારંભ વર્ષ ૨૦૧૭-૧૮ કરવામાં આવ્યો છે. ગુજરાતી વિષયમાં એમ.એ (અનુસ્નાતક અભ્યાસક્રમ)ની શરૂઆત કરવામાં આવી હતી. ગુજરાતી એમ.એ. નો અભ્યાસક્રમ ચાર સત્ર (બે વર્ષ ) નો છે. ગુજરાતી ભાષા - સાહિત્ય કેન્દ્રના અભ્યાસક્રમમાં ગુજરાતી ભાષા અને સાહિત્યના મુખ્ય અભ્યાસક્રમ ઉપરાંત વિભિન્ન પ્રકારની આંતર વિદ્યાકીય (ઇન્ટર ડિસિપ્લિનરી) શાખાઓને પણ સામેલ કરવામાં આવી છે. વિવિધ વૈકલ્પિક વિષયોનો સમાવેશ આ અભ્યાસક્રમમાં કરવામાં આવ્યો છે. આ અભ્યાસક્રમનો મુખ્ય હેતુ માત્ર ગુજરાતી ભાષા અને સાહિત્યના વ્યાપક કૌશલ્ય અને જ્ઞાન આપવા ઉપરાંત સાંસ્કૃતિક વિદ્યા, ફિલ્મ, દલિતસાહિત્ય, તુલનાત્મક સાહિત્ય, લોકસાહિત્ય, આદિવાસી સાહિત્ય, સંતસાહિત્ય, ચારણી સાહિત્ય વગેરે વિષયોમાં વિસ્તૃત સમજણ, જ્ઞાન અને કૌશલ્ય પુરુ પાડવાનો છે. ગુજરાતી ભાષા - સાહિત્ય કેન્દ્ર એ ભાષા સાહિત્ય અને સંસ્કૃતિ અધ્યયન સંસ્થાન (SLL& CS) નો એક ભાગ છે. ગુજરાતી ભાષા - સાહિત્ય કેન્દ્રમાં ક્રમશઃ વિષય સંલગ્ન પરિસંવાદ, કાર્યશાળા અને વ્યાખ્યાનોનું આયોજન થાય છે. આ કેન્દ્રના વિદ્યાર્થીઓ રાષ્ટ્રીય અને આંતરરાષ્ટ્રીય ફલક પર પોતાના અભ્યાસનું ક્ષેત્ર વિસ્તારી શકે એ માટે વિવિધ સંસ્થાઓ સાથે વિદ્યાકીય જોડાણો કરવામાં આવી રહ્યા છે. વર્ષ ૨૦૨૧-૨૨ થી ગુજરાતી ભાષા સાહિત્ય કેન્દ્રમાં સંશોધન પ્રોગ્રામ અંતર્ગત પીએચ.ડી.પદવી માટે પ્રવેશ પ્રારંભ થઈ રહેલ છે. જેમાં યુ.જી.સી. નેટ પાસ ન હોય એવા વિદ્યાર્થીઓને પણ ફેલોશિપ આપવામાં આવે છે.

#### Programmes offered

1. M.A. in Gujarati
2. Ph.D. in Gujarati

#### Faculty profile

##### Prof. Rajesh Makwana (Professor and Chairperson)

Areas of Interest/Specialization: Literary Criticism, Medieval Literature, Marginal Literature, Folk Lore

Email: rajesh.makwana@cug.ac.in

##### Dr Ajaysinh Chauhan (Associate Professor)

Research Interests: Postmodern literature, Travelogue Literature

Email: ajay.sinh@cug.ac.in

##### Dr Pratibha Pandya (Assistant Professor)

Areas of Interest/Specialization: Literary Criticism, Tribal Literature, Folk Lore

Email: pratibha.trivedi@cug.ac

**Dr Deepak Bhatt (Assistant Professor)**

**Areas of Interest/Specialization:** Contemporary Literary and Cultural Theory, medieval Literatures, criticism, Indian Literatures.

**Email:** deepak.bhatt@cug.ac.in

**MS. Sangita Chaudhari (Assistant Professor)**

**Areas of Interest/Specialization:** Tribal Literature, Linguistic, Literary Criticism

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**Dr Baldev Prajapati (Assistant Professor)**

**Areas of Interest/Specialization:** Drama, Folklore, Post Modernism, Comparative Study

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**Dr. Vijeta Gamit, (Guest Faculty)**

**Areas of Interest/Specialization:** Medieval Literature, Diaspora

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## SCHOOL OF LIBRARY AND INFORMATION SCIENCE

The School of Library and Information Science offers programmes which are highly relevant in the present context of knowledge society. It has been established with the objectives to train competent human resource to build and maintain the reservoir of memory, to conserve and communicate culture, heritage, science, art and folk traditions of the nation; to prepare students in the application of ICT; to develop competent professionals for promoting access to useful knowledge by the process of digitization and to involve in capacity building activities to create a Digital India at large.

The course structure is choice based, flexible and practice oriented with an emphasis on digital approaches to Library and Information Science. The teaching process involves interactive lectures, video tutorials, field visits, internship, assignments and seminars, projects and hands-on training.

The School of Library and Information Science is offering the following programmes in AY 2020-21:

### Programmes Offered

1. Master of Library and Information Science (M. Lib. I. Sc.)
2. Ph.D. in Library and Information Science

### Faculty Profile

#### Dr. Bhakti Gala, Assistant Professor

Research Interests: Knowledge Organization and Access; Social Media and Libraries; Sustainable Libraries; Information Society; Information Literacy; Information Systems; Open Access & Open Knowledge; Digital Content.

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#### Dr. Minaxi Parmar, Assistant Professor & Coordinator

Research Interests: Library and Information Management, Library Administration, Information Resources and Services, College Librarianship, Library Automation, Bibliometrics, Knowledge Processing.

**Email:** minaxi.parmar@cug.ac.in

#### Dr. Rashmi Kumbar, Assistant Professor

Research Interests: Library & Information Management, Knowledge Management, Information Resources & Services, Information Literacy, School Librarianship, Life Skills, Academic Writing and Technical Communication

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#### Dr. Hiten M Parmar, Guest Faculty

Research Interests: Knowledge Organisation: Classification, ICT in Libraries, Research Methodology in LIS, Professional Ethics, Information Consolidation and Repackaging

## SCHOOL OF LIFE SCIENCES

Ever since its inception in 2010 as an independent school, the School of Life Sciences has demonstrated an unfailing commitment towards imparting quality education and training as well as promoting advance research in the frontier areas of biological sciences. The M.Sc. students earn knowledge and training in the basics as well as advances in Life Sciences through exposure to modern tools and techniques. Students admitted in Ph.D. program are offered one-year coursework covering various aspects of techniques and research methodology in biological sciences. The nature of course is interdisciplinary, with close interface between various disciplines of biological sciences.

The School has well equipped Central Instrumentation Facility (CIF) having ultramodern equipment to support advanced experimentation and provides avenues for high quality research. In addition, the School has state-of-art laboratories to enable cutting edge research in the field of Biochemistry and Molecular biology, Cell Biology, Microbiology, Immunology, Metabolic disorders, Biophysics, Plant Biotechnology and Biomaterial Engineering.

### Programmes offered

1. M.Sc. in Life Sciences
2. Ph.D. in Life Sciences

### Faculty Profile

#### **Prof. Seema Rawat; Professor & Dean**

Research Interest: Molecular Microbial Ecology, Microbial Technology, Antimicrobial Resistance, Microbial Stress Physiology, Bioremediation, Solid Waste Management, Plant Growth Promotory Rhizobacteria

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#### **Prof. Umesh C. S. Yadav; Professor (On Lien)**

Research Interests: Understanding the molecular mechanisms of cytotoxicity leading to chronic inflammatory diseases during metabolic disorder including diabetic and cardiovascular complications, cancers, asthma and COPD

E-mail: umeshyadav@cug.ac.in

#### **Dr. Rajesh Vasita; Assistant Professor**

Research Interests: Exploring interfacial properties of polymeric surface to answer complex biological queries and for the development of biomedical devices.

E-mail : rajesh.vasita@cug.ac.in

#### **Dr. Sunita Patel; Assistant Professor**

Research Interests: Biochemistry, biophysical chemistry, RNA-protein interactions, protein chemistry, spectroscopy: application to biology.

Email: sunitapcug@gmail.com

**Dr. Anju Pappachan; Assistant Professor**

Research Interests: Structural and functional characterization of metabolic pathway proteins and adhesins from Leishmania; plant and microbial lectins; stress proteins from Lactobacillus sp. using protein engineering, macromolecular crystallography, biophysical techniques, biochemical assays Molecular Biology, and bioinformatics tools

**E-mail:** anju.p@cug.ac.in

**Dr. Swati Joshi; Assistant Professor (On contract)**

Research Interests: Industrial microbiology and biotechnology, metagenomics, extremozyme research, protein engineering, heterologous protein expression systems and downstream processing

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## SCHOOL OF NANO SCIENCES

The school has offered M.Sc. in Nanotechnology and direct Ph.D. program in Nano Sciences since 2016-17. This year we are offering MSc. in Nanoscience and Ph.D. in Nanoscience. The M.Sc. and Ph.D. program will cover a broad range of disciplines to enable the students to make an objective judgment of the scientific importance and technological potential of developments in micro- and nanotechnologies and to perform a range of activities related to Nanoscience. Students are currently working on diverse projects covering the use of nanocomposites in environment remediation, optoelectronics, nanomaterials in energy storage devices as well as for drug delivery. The students of the school have access to several sophisticated equipment like DLS, XRD, XPS, NMR, AFM, SEM, FACS, MALDI-TOF, Confocal microscope, etc. in the Central Instrumentation Facility of the University. The School of Nano Sciences is equipped with equipment such as UV-VIS spectrophotometer, Thermal CVD system, Photocatalytic setup, Gel Electrophoresis, Ovens, Incubator, bath sonicator, centrifuge, Four probe and Hall apparatus etc. The school also has the facilities for both microbial and mammalian cell culture. Students have access to most recent books, journal pertaining to nanoscience/nanotechnology exclusively, both in hard copy and electronic form. They also have access to both national and international sites being routed through the Central Library of the University.

### Programmes offered

1. M.Sc. in Nanoscience
2. Ph.D. in Nanoscience

### Faculty profile

#### **Prof Dr. Pallavi Sharma, Professor & Dean in Charge**

Research Interests: Deciphering the mechanisms of environmental stress tolerance in plants, Phytoremediation.

#### **Dr. Charu Lata Dube, Assistant Professor**

Research Interests: Microwave synthesis of alloy nanowires, development of fusion materials, development of nanomaterials for energy and biomedical applications.

**Email:** charulata.dube@cug.ac.in

#### **Dr. Umesh Kumar, Assistant Professor**

Research Interests: Nano-Biotechnology; synthesis, characterization, Surface functionalization/bio-conjugation of nanoparticles, and Biophysical studies of cells; Cellular nanoparticle binding/uptake studies; experience on High resolution microscopy like Confocal, Fluorescence, Atomic Force Microscopy etc.; development of multifunctional, biodegradable and biocompatible nano-carriers for delivering small molecules to plants or humans with enhanced bioavailability and efficacy.

**Email:** umesh.kumar@cug.ac.in

**Dr. Hitesh Kulhari, Assistant Professor**

Research Interests: Anticancer nanomedicines; nanotechnology-based drug and gene delivery systems, bioimaging, biomaterials, and development of pharmaceutical products.

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**Dr. Manu Sharma, Assistant Professor**

Research Interests: Synthesis of the highly efficient photocatalyst, water splitting, electrocatalysis and nanomaterials for energy storage devices. Nanocomposites for catalytic applications, waste management and sensing applications. Designing of porous nanomaterials for water purification.

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## SCHOOL OF NATIONAL SECURITY STUDIES

### About the School of National Security Studies

The School of National Security Studies has been conceptualised to encourage creation and dissemination of knowledge in the area of security and strategic studies, and international relations in the country. Initially, it was Centre for Security Studies which was established in 2009 as one of the founding centres under School of International Studies. Subsequently, in May 2018, with approval from the University Grants Commission, the School of National Security Studies came into existence.

Academic programmes at the School intend to pursue and encourage study, research and analysis in all areas of security and strategic studies including research into various internal security threats, nuclear deterrence and strategy, threats emanating from Space and Cyber domain, national security structure and higher defence management. Given the importance of Gujarat's historical connections with the larger world, it will pursue research on maritime and coastal security. Besides the other global areas, the School's immediate area of focus is on India's immediate and extended neighbourhood.

The School offers a **M.A. in Defence and Strategic Studies**. The post-graduate course has been designed to equip students with theoretical knowledge and policy analysis skills. Drawing on a wide range of disciplinary fields including defence and strategic studies, international relations, political science etc., the courses offered under the M.A. programme will help students understand emerging security and strategic challenges in a globalized world. The courses in the PG program addresses key elements of both traditional and non-traditional security issues ranging from India's defence and national security, international security, internal security and terrorism, cyber security, GIS and National Security as well as a range of non-traditional security issues like the biological threats, energy security etc. The two-year program covers the entire UGC-NET syllabus in Defence and Strategic Studies.

The focus of the MA Program is to equip students with the knowledge and skill sets to pursue a career in academics, private sector, think tanks, research institutions, diplomacy, journalism, civil services, humanitarian and non-governmental work. To this end, the syllabus has courses on Cyber Security, Geographical Information System (GIS) and National Security, Computer Skills, Disaster Management, Foreign and Security Policies of China, Introduction to West Asia, Research Methodology in addition to covering the entire NET syllabus in Defence and Strategic Studies. As part of the MA course, regular interactions and lectures are organised with military officers, experts from the private sector, security officials, diplomats and academics from various universities and think tanks. The students are also assisted and encouraged to pursue internships during the course.

Currently, there are three centres within the School; (a) Centre for Security Studies (CSS); (b) Centre for Studies in Strategic Technologies; and (c) Centre for Maritime Security Studies.

## Centre for Security Studies

The Centre for Security Studies is functioning under the School of National Security Studies from Academic Year 2018-19. The Centre attempts to impart theoretical, empirical and critical understanding of the changing notions of security encompassing a complex and frequently interconnected set of issues. The Centre's objective is to disseminate the existing knowledge and generate new knowledge, pertaining to issues of security through teaching and research.

The Centre aims to train new generation of scholars and analysts in security studies and aspires to inculcate much needed interest in the discipline. Courses facilitate the comprehension of complex issues of significance within the broad context of security studies.

### Programmes offered

1. M.A. in Defence and Strategic Studies
2. Ph.D. in Security Studies

### Faculty Profile

#### **Prof. Sanjay Kumar Jha, Professor and Dean, School of National Security Studies**

**Research Interests:** National Security, Internal Security, Terrorism & Insurgency, Security and Politics in South Asia, Border and Coastal Security

**Email:** sanjayjha@cug.ac.in

#### **Dr. Arun Vishwanathan, Associate Professor and Chairperson, Centre for Security Studies**

**Research Interests:** Arms Control and Disarmament, Nuclear Strategy and Deterrence, India's Defence Ecosystem, Higher Defence Management, Indian Foreign and Defence Policy.

**Email:** arunv@cug.ac.in

#### **Dr. Kishor Jose, Assistant Professor**

**Research Interests:** Non-traditional Security Challenges, Energy Security, Central Asia's Politics and Society.

**Email:** kishor@cug.ac.in

#### **Dr. Nongmaithem Mohandas Singh, Assistant Professor**

**Research Interests:** National Security and North-East India, Geopolitics and Security in Asia-Pacific and India's Neighbourhood, Conflict Resolution, Security & Foreign Policy of Russia and Central Asia.

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#### **Dr. Manasi Singh**

##### **Assistant Professor, Centre for Security Studies**

**Research Interests:** Role of International Organizations in peace and security, Conflict, Security and Development, EU as a Global Actor, Security Architecture in Asia-Pacific, Connectivity and Geopolitics

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**Mr. T.K. Singh**

**Assistant Professor, Centre for Security Studies**

**Research Interests:** Cyber Security, Terrorism and Counter Terrorism, Intelligence & Counterintelligence, Organised Crime and Illicit Trafficking, Low Intensity Conflict, Higher Defence Organisation, Civil Military Cooperation

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### **Centre for Strategic Technologies (Cyber/Space Security)**

The Centre for Strategic Technologies is one of the two new centres established under the School of National Security Studies in 2018. The centre occupies a unique place in the Indian university system, because for the first time a teaching and research centre has been established purely to study the evolution, future development trajectories and impact of strategic technologies on the society, military, economy and the country at large. Strategic technologies are broadly understood as those technologies which have an impact on national security. The centre will work at the intersection of strategy, technological change and evolution and their impact on a country's foreign and military strategy. Given the rapid changes in technologies and associated developments in the area, such a broad understanding will allow for accommodation of future developments into the ambit of study in the centre. Modules have been incorporated in the syllabus to enhance prospects of employment for the students. It focuses on critical Cyber Security world and Space technologies in societal, military, economy and national context. Though academic activity has begun in the centre, teaching and research programmes are being offered from the academic session.

The Centre is also planning to start short-term Certificate and Diploma Programmes in areas related to Cyberspace and National Security, Cyber Law etc. The academic programmes offered at the Centre intend create skilled human resources suited to the requirements of government organisations, private sectors and research institutions, through lab-based learning, exposure to industry and hands on experience of issues facing the countries. The fully equipped GIS and Cyber lab will add to the learning experience of students. We aspire to produce & nurture the talent which will shape the security policy of India in the future

#### **Programmes offered**

1. **Ph.D. in Strategic Technologies and National Security**

**Focus areas where applications are invited for admission to PhD program in Centre for Strategic Technologies:** Cyber Space and National Security, Regulatory framework of Cyber Domain, Space Technology in context of National Security, Weaponization, Militarisation and deterrence in outer space.

#### **Faculty Profile**

**Dr. Shrish Kumar Tiwari, Assistant Professor and Coordinator**

**Research Interests:** Cyber Law- Information Technology Act, Privacy law, Data Protection,



Information Security, E-commerce.

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**Dr. Sourabh Kumar, Assistant Professor**

**Research Interests:** India's Foreign and Defense Policy, India's Space Security, Traditional and Non-Traditional Security Challenges, French Language

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### **Centre for Maritime Security Studies**

The Centre aims to establish itself as centre of excellence in the field of maritime security in India, promoting policy relevant research and analysis through collaboration with government, policy practitioners, academics and industry. Given the importance of Gujarat's historical connections with the larger world, the Centre aims to focus on issues related to Gujarat's coastal and maritime security. The State located in Western part of India is rapidly growing as India's maritime hotspot and has tremendous potential to develop in areas of port development, maritime trade and commerce,

The Centre's aims to build knowledge on emerging issues and concerns related to India's coastal and maritime domain, the institutions, practices, and discourses that shape them and India's role in the Indian Ocean particularly its engagement with Arabian Sea littorals. The core research areas of the Centre include India's maritime security and strategy, maritime history, blue economy, coastal planning and management, piracy, irregular warfare at sea, maritime trade, maritime law and governance, security and governance in Indian Ocean.

The Centre plans to start a certificate course in maritime security and organize training programmes for officials from the Indian Navy, Coast Guard and other interested stakeholders. Since its inception, the Centre has organized several events including conferences, workshops and talks by experts in the field of maritime studies. These events have turned out to be very productive in terms of generating ideas and disseminate knowledge to a wider audience. In future, the Centre will also offer a PhD programme with an inter-disciplinary focus relating to history, international relations and strategic studies.

#### **Faculty Profile**

**Dr. Manasi Singh, Assistant Professor and Coordinator, Centre for Maritime Security Studies**

**Research Interests:** Role of International Organizations in peace and security, Conflict, Security and Development, EU as a Global Actor, Security Architecture in Asia-Pacific, Connectivity and Geopolitics

**Email:** manasi.singh@cug.ac.in

## **School of Social Sciences (SSS)**

The School of Social Sciences has remained a dynamic school of study since its inception in 2009. The students and faculty members are dedicated to scholarly studies in the diverse streams of social sciences. It ever seeks to analyse current contemporary regional, national, and international issues and offer solutions to them. The school achieves a prominent status on the merit of its novel theoretical and methodological approaches, and empirical research. The school endeavours to maintain its tradition of excellence by means of developing innovative models, use of robust as well as effective methodologies to understand human behaviour and socio-economic dimensions of a diverse and digital society.

The vision of the School of Social Sciences is to bring together scholars from various backgrounds through comprehensive approaches that would range from formal to interpretative and qualitative to quantitative. It would be in order to address fundamental research questions and cater to resolving pressing social issues. The school ceaselessly establishes interdisciplinary connections to explore and develop in-depth understanding of social, psychological and cultural factors. It would lay an impact on adoption of policies, framing of regulations and issues related to gender and social justice. The school nurtures social scientists who would skilfully address the present day social and economic challenges by exploring an impact of anthropogenic activities and environmental interactions on energy, climate and ecology. Being multidisciplinary in scopes and open to innovative methodologies in social sciences, the school at the Central University of Gujarat encompasses all of humanity's increasing diversities and adds value to the social, economic and political systems. The School comprises of five Centres each offering M.A. and Ph.D. programmes while there are three School level programmes like M.A. in Social Work, M.A. in Gender Studies, and M.A. in Political Science.

**Dean of the School:** Prof. Sarita Agrawal **Email:** [sarita.agrawal@cug.ac.in](mailto:sarita.agrawal@cug.ac.in)

### **School-level Programme**

#### **M.A. in Social Work**

(Full-time course, Duration: 2 years)

The School has recently started M.A. in Social Work Programme. This programme aims to train students to constructively engage with the policy makers and public so as to evolve innovative strategies through field action projects and practice-based research. The broader objective of this

course emanates from the much felt need of having a social work perspective to the various public policies that are generally framed and implemented by governments for citizens' welfare. The uniqueness of this programme is its integration of social work skills and practices embedded in social sciences with the objective of rational understanding of policy formulation, monitoring and analysis in the larger governance framework.

**Social Work Programme Coordinator: Dr. Sony Kunjappan**

### **M.A. in Gender Studies**

(Full-time course, Duration: 2 years, Credits: 72)

Critical interrogation of the question of exclusion, invisibility and marginality of women in the traditional disciplinary frameworks has given rise to the emergence of gender studies. Hence, one of the key thrusts has been to instill gender consciousness in the academic knowledge systems. Hinging on to such core ideas, the School offers a two-year M.A. programme in Gender studies from this year. Anchoring to diverse disciplines like sociology, political science, economics, science and social policy, the programme would adopt an interdisciplinary and comparative framework while interrogating the question of gender. Drawing in the interdisciplinary expertise of teachers across the centres in the school of social sciences, the programme aims to cultivate an interdisciplinary space for dialogue and cross-pollination of ideas across disciplinary boundaries. Students wishing to study M.A. in gender studies would be admitted in the course irrespective of their disciplinary background at their undergraduate level.

This course aspires to enable students in cultivating conceptual knowledge to critically analyze theories, methods and develop a nuanced understanding on the way gender shapes our everyday lives and lived realities. In true sense, the programme would help students to connect academic learning to their culturally and historically situated real life contexts. The skill of synthesizing theory with practical applications in the lived realities of people can provide a critical edge to students in sensitizing themselves for becoming agents of social transformation and in creating a just and healthy society. It would also enhance skills of students to undertake research in gender studies touching upon diverse areas of human life.

**Gender Studies Programme Coordinator: Dr. Sudeep Basu**

### **M.A. in Political Science**

(Full-time course, Duration: 2 years, Credits: 72)

M.A. in Political Science is a two-year full-time programme offering 16 courses (both compulsory and optional) of four credits each, evenly taught over four semesters. In addition, there is a self-study project of two credits in each semester. The programme is of 72 credits. The compulsory or core courses of the programme focuses on political theory/philosophy, political thought, Indian politics (institutions and processes), comparative politics and government, Modern Indian thinkers, international relations, and research methodology. The optional courses revolve around the themes of governance, decentralisation, development, public policy, democracy, inequality and exclusion, social justice, human rights, social movements, tradition-modernity debate, post-modernism, globalisation, political economy, post-colonial state, international politics, foreign policy, terrorism, violence, critical theory, and peace and conflict studies. The objective of the programme is to familiarise the students with the concepts, theories, approaches and paradigms of the discipline of Political Science. The programme aims at equipping the students with theoretical knowledge of politics as well as political processes. Students will also explore the society-politics interface. Another objective of the programme is to impart to the students a theoretical understanding of philosophy of science and social science, and practical methods for research in political science. All the sixteen courses are based on classroom teaching. The evaluation comprises mid-term examination, assignments (book review / term paper / seminar presentation) and end-term examination.

**Political Science Programme Coordinator: Dr. Beryl Anand**

### **Centre for Studies in Economics and Planning**

The CSEP under the School of Social Sciences is offering M.Phil./Ph.D. programmes in Economics since 2010-11 and MA in Economics since 2015-16. The main objectives of the Centre are to deliver quality education and to promote socially relevant research in the field of economics and policy-making. In addition to building a theoretical knowledge base in various areas of economics, the Centre strives to promote analytical thinking and empirical research skills to address the emerging socio-economic issues at local, national and global levels. By means of providing quality research in the different dimensions of economics, the objectives of the Centre are to contribute to policy research, facilitate inclusive and sustainable growth.

The syllabus of the Centre is innovatively designed to enhance students' learning in theoretical, analytical and empirical knowledge to better understand and analyze behaviours of economic agents like individuals, households, firms and economies and their connection to the general well-being of the country. The Centre comprehensively focuses on the areas of regional economic growth and human development, economics of education, informal sector, employment and wages, public

finance and policies, health, international business, and industry studies. The faculty members are committed to academic excellence, and they encourage the students to contribute to the welfare of the nation and to promote economic and social justice by means of their valuable and authentic research. The centre offers the following programme:

M.A. and Ph.D. in economics are our flagship programmes that are designed to train students to become professional economists with required skills who can understand, analyze and provide solutions to economic issues and take on a variety of responsibilities within this field of economics. These programmes are structured around ideas and theoretical knowledge of economics and also examination of critical economic questions based on strong component of fieldwork and report writing.

1. **M.A. in Economics:** The M.A. in economics is a full-time two-year, four-semester programme of 72 credits broken into 48 credits of core compulsory courses, 16 credits of core elective courses and 8 credits of field work and report writing. The core compulsory courses offer students a foundational understanding of key concepts, ideas and theories in economics as well essential mathematical, statistical, and econometric tools required in undertaking economic analysis. The elective courses allow the students to choose the key areas in economics where they want to enhance their knowledge and deepen their specialization. Fieldwork and report writing is a compulsory feature of the programme in each semester as it provides students the chance to apply their theoretical knowledge and quantitative tools in analysing economic problems. Overall, the programme has incorporated courses like Statistical methods for economics; Econometrics I, Econometrics II, Economics of Social Sector, FDI and Development in India, Economics of Insurance, Economics of Infrastructure, Data Analysis and Computer Applications in Economics, Entrepreneurship and New Venture Creation, etc that have direct bearing on employability, skill development and entrepreneurship.

2. **Ph.D. in Economics:** The Ph.D. in economics is a minimum of three years including course work and a maximum of six years duration programme. The course work, which is a prerequisite for the programme, covers initial two-semester having 20 credits broken into 10 credits of core compulsory courses, 6 credits of core elective courses and 2 credits of field work and report writing and another 2 credit of term paper writing. The core compulsory courses prepare students by providing courses on research methodology (4 credits) and advanced economic theories. The elective courses allow the students to choose specialization area in the field of economics in which they want to pursue their research. The course-work helps students become skilled, critical and

analytical to explore various contemporary economic challenges faced by the nation, regions, sectors, firms and households and reach solutions for those problems.

#### **Faculty Profile**

##### **Prof. Sarita Agrawal, Professor and Dean, School of Social Sciences**

Research interests: Labour Economics, Economics of human resource development, Economics of Education, Institutional Economics.

**Email:** sarita.agrawal@cug.ac.in

##### **Prof. Jaya Prakash Pradhan, Professor and Chairperson, CSEP**

Research Interests: Social Economics, Regional Developments, International Economics; and Applied Econometrics.

**Email:** jppradhan@cug.ac.in

##### **Dr. Kshamanidhi Adabar, Associate Professor**

Research Interests: Convergence and Economic Growth, Regional Disparities and Development, Applied Econometrics, Human Development, Econometrics, Macroeconomics, Microeconomics, Economic Growth and Development, Quantitative Techniques/Statistics.

**Email:** kshama@cug.ac.in

##### **Dr. Sarala Dasari, Assistant Professor**

Research Interests: Public Economics, Development Economics, Health Economics, Economics of Education.

**Email:** saralalenin@cug.ac.in

##### **Dr. Tulika Tripathi, Assistant Professor**

Research Interests: Development Economics, Health Economics, Capabilities Approach, Gender and Labour.

**Email:** tulika.tripathi@cug.ac.in

### **Centre for Studies in Social Management**

The Centre for Studies in Social Management was established in 2010. Today, one can witness great extremities in critical sectors, some of them proving to be the best in the world and others failing to reach even the minimum desired levels. There is extreme prosperity on one hand and absolute deprivation on the other. This situation calls for a strategy and a paradigm shift in terms of managing the social sector. Academics has a pivotal role to play in bringing together the forces of change and complexities involved in the processes. The core idea is to have professionals and researchers who will contribute to innovative and critical ways to the social and development sector.

### Programmes Offered

1. **5-year Integrated M.A. in Social Management**
2. **Ph.D. in Social Management**

### Faculty Profile

**Dr. Sony Kunjappan, Coordinator and Assistant Professor**

Research Interest: Criminal Justice Social Work, Police Studies, Social Work, Governance of any institutions/sector, Criminology

**Email Id:** sony@cug.ac.in; sonyjnu@gmail.com

**Dr. Sudeep Basu, Assistant Professor**

Research Interests: Refugee and Diaspora studies, Migration, Marginality, Development studies, critical theory and the sociology of knowledge.

**Email Id:** sudeepbas@gmail.com

**Dr. Litty Denis, Assistant Professor**

Research Interest: Financial Inclusion, Microfinance, Corporate Social Responsibility

**Email Id:** litty.denis@cug.ac.in

**Dr. M. Roja Lakshmi, Assistant Professor (On contract)**

Research Interests: Sociology of Education, Social Movements, Research Methodology, Quantitative Methods, Gender and Health, Human Rights.

**Email Id:** maila.roja@cug.ac.in

## **Centre for Studies in Society and Development**

Centre for Studies in Society and Development is anchored in the disciplines of Sociology and Social Anthropology. The Centre aims to generate and disseminate knowledge on theoretical and applied aspects of Social Structures and Social Change and Development and also interfaces between them. Its courses introduce and engage with different theoretical formulations and debates concerning local as well as global issues in historical and contemporary contexts. It analyses different processes, actors, structures and power relations as constructed and contested by the state and institutions as well. The pedagogy is based on interactive teaching and reflexive exercise. Field work is an component of the courses to grasp the complexity of social reality. Students are encouraged to partake in discussion and dialogue to deepen their academic horizon. The centre offers the following programme for this academic year:

### **Programs Offered**

1. **M.A. in Sociology**
2. **Ph.D. in Sociology**



**Faculty Profile****Dr. Khaikholen Haokip, Assistant Professor & Coordinator**

Research interests: Human Rights, Social Movements and Tribal Studies

**Email:** khaokip@cug.ac.in

**Dr. Sudarshan Papanna, Assistant Professor**

Research interests: Urban Sociology, Studies of Caste, Studies of Indian Society and Sociology of Knowledge, Sociological Theories, Philosophy of Science and Social Sciences.

**Email:** sudarshan.papanna@cug.ac.in

**Dr. Jayashree Ambewadikar, Assistant Professor**

Research interests: Studies on Caste and Weaker Sections, Social Exclusion and Social Security Systems, and Studies on Poverty

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**Dr. Madhumita Biswal, Assistant Professor (On Contract)**

Research interest: Sociology of Gender, Sociology of Health and Rural Society.

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### **Centre for Studies in Science, Technology and Innovation Policy (CSSTIP)**

Centre for Studies in Science, Technology and Innovation Policy (CSSTIP) focuses on the social and cultural dynamics of science and technology from an interdisciplinary and comparative framework. The Centre specialises on a wide range of themes and concerns at the interface of science and society, dwelling upon theoretical insights by the emergent academic field of Science, Technology and Society (STS) studies. The Centre endeavors to study philosophical, historical, sociological, developmental and cultural dimensions of S&T in India and equips students to critically analyse science, technology and innovation policies. Researchers at the Centre have received research fellowships from different agencies such as UGC NET/JRF; ICSSR, RGNF, and IEG. The Centre offers excellent academic environment that gives students international exposure and possibilities to interact with academicians, policy makers, S&T departments and agencies, civil society organisations, entrepreneurs, and innovators. Scholars who finish M.Phil.-Ph.D. from the Centre have wide employment opportunities in academics as well as governmental departments/agencies and civil society organizations such as The Hebrew University of Jerusalem, Israel, Nanyang Technological University, Singapore, Department of Science and Technology, Government of India, NISTADS, IISc, IIIT-V, EDI and other universities and colleges. The centre offers the following programmes:



## Programmes Offered

### 1. Ph.D. in Studies in Science, Technology and Innovation Policy

#### Faculty Profile

##### **Dr. Hemant Kumar, Assistant Professor & Coordinator**

Research interests: Informal sector innovations, systems of innovation, Socio-technical Transition, Science, Technology and Innovation Diplomacy, Animal and STS studies, and History & Philosophy of Science and Technology.

**Email:** hemant@cug.ac.in

##### **Dr. Parvathi K. Iyer, Assistant Professor**

Research interests: Public engagement with S&T, sociology of science and technology, gender and science in India, academia-industry collaborations in S&T and governance, risk and regulatory issues in S&T. She teaches courses in Science, Technology and Society studies, Research Methodology, History of Science and Technology, Technology Futures Analysis and Sectoral Science and Technology Policy.

**Email:** parvathikiyer@cug.ac.in

##### **Dr. Shiju Sam Varughese, Assistant Professor**

Research interests: Public engagement with science and technology, media and science communication, scientific expertise, science in popular culture, sociology of science and technology, and social history of knowledge.

**Email:** shijusam@cug.ac.in

##### **Dr. Kunal Sinha, Assistant Professor**

Research interests: Science, Technology and Development, Technology Futures Analysis, Intellectual Property Rights and development, Innovation and Socio-Economic Change, Sociology Science and Technology, Health Innovation System, Science, Technology and Foreign Policy.

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## **Centre for Gandhian Thought and Peace Studies**

Centre for Gandhian Thought and Peace Studies was established in 2011. It is an interdisciplinary centre focusing on research and studies in Gandhian Thought and Peace Studies. The Centre offers Ph.D. in Gandhian Thought and Peace Studies, and M.A. in Political Science. Major thrust areas of research include different aspects of Gandhian Thought and Peace Studies such as: Satyagraha, Sarvodaya, Swaraj, Ahimsa/Peace, Conflict Resolution, Movements, Democracy, Gandhian/Thought, Gandhian Philosophy, Environment movements, peace movements, Decentralisation, Gram Swaraj, Movements, Alternative economic models, and non-violent struggles.

**Programmes offered:**

1. M.A. in Gandhian Thought and Peace Studies
2. Ph.D. in Gandhian Thought and Peace Studies

Ph.D. in Gandhian Thought and Peace Studies promotes interdisciplinary research. Mohandas Karamchand Gandhi remains a critical reference point to discern plurality of ideas like Satyagraha, Ahimsa and the doctrine of means and ends. The contemporary relevance of the ideas of Gandhi provides a foundation to the discipline of peace studies. Students in the research programme explore a variety of topics which include peacebuilding through reconciliation, social movements to ensure justice, religion and conflict, violence and its manifestation in different forms. The Ph.D. programme aims at equipping the students with theoretical and empirical knowledge of Gandhian philosophy and peace studies. Students are taught original writings of Gandhi's writings along with courses on modern Indian thinkers in comparative method along with philosophy of science and social sciences. All courses are based on classroom teaching. The evaluation of Coursework comprises mid-term examination, assignments (book review / term paper / seminar presentation) and end-term examination. After successful completion of compulsory course work of Two Semesters, students write Thesis.

**Faculty Profile****Mr. Smruti Ranjan Dhal, Assistant Professor & Coordinator**

Areas of Interest: Gandhian Thought, Political Theory, and Political Thought.

Email: smruti.dhal@cug.ac.in

**Dr. Dhananjay Rai, Assistant Professor**

Political Theory/Thought, Gandhian Political Philosophy, Higher Education, Cultural Theory, Political Economy.

Email: dhananjay@cug.ac.in

**Dr, Jagannatham Begari, Assistant Professor**

Areas of Interest/Specialization: Democracy, Modern India Thinkers, M.K. Gandhi and movements, Subaltern Theory, social inclusion and Political Economy of India

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**Dr. Beryl Anand, Assistant Professor**

Peace and Conflict Studies, United Nations and Human Rights, Peace building and Conflict Resolution, Comparative Politics, Politics in West Asia and North Africa, Conflicts in South Asia.

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**Dr. Priya Ranjan Kumar, Assistant Professor**

Areas of Interest: M.K. Gandhi, Peace & Conflict Studies, Security, Theories & Problems of International Relations, Environmental ethics, Foreign Policy and West Asia.

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## SCHOOL OF APPLIED MATERIAL SCIENCES

The changing global scenario in research and economy demands a multidisciplinary approach in science with an aim to be self-sustainable and leaders in the field. It is speculated that 21st century belongs to those who subscribe to out of the box approach and thinking. Advanced materials are essentials to economic security and human well-being, with application in multiple industries, including those aimed at addressing challenges in clean energy, national security, and human welfare. Accelerating the pace of discovery and deployment of advanced material system will, therefore, be crucial to achieving global competitiveness in the 21st century. The purpose of this Centre is to provide cross-fertilization of new ideas and methodology which could serve as a conduit for collaboration between experimental research who are synthesizing, characterizing and collecting real world data and computational research in model building, simulation, and analysis under one roof. This synergy provides critical fundamental that can guide new experiments and accelerates discovery.

Industry personnel are regularly invited as guest faculty in the center to provide inputs in industrial requirements and enhance the skill of students. The centre offers the following programme:

### Programmes Offered

1. M.Sc. Industrial Chemistry
2. Ph.D. in Applied Chemistry

### Faculty Profile:

#### **Prof Prakash Chandra Jha, Dean and Professor**

Research Interests: Multiscale Modelling from Molecules to Materials. Computational approach to drug designing and rational approach to catalyst design for energy materials.

**Email:** prakash.jha@cug.ac.in

#### **Dr. L. Raju Chowhan, Assistant Professor**

Research Interests: Multi-disciplinary research programs including total synthesis of bioactive molecules, the design of novel methodologies and catalytic asymmetric reactions.

**Email:** rchowhan@cug.ac.in

#### **Dr. Kamlesh Kumar, Assistant Professor**

Research Interests: Smart materials, Liquid crystal polymer networks, Template based fabrication of Micro- and Nanostructured Materials, Polymer hybrid materials, Biodegradable polymers, Preparation of hierarchically structured materials.

**Email:** kamlesh.kumar@cug.ac.in

**Dr. Eeshwaraiah Begari, Assistant Professor**

Research Interests: Medicinal Chemistry and total synthesis of biologically active natural products.

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### Centre for Diaspora Studies (CDS)

Centre for Study of Diaspora (CSD) was established in 2011 at the Central University of Gujarat, Gandhinagar, India. It offers an M.Phil. Programme. CSD is an Independent Centre in the University, and as a unique inter-disciplinary Centre in India, it studies with its multidisciplinary framework various aspects and issues of migration and diaspora and their cultural, literary, social, demographic, political and economic impact on both the home and host countries with focus on the Indian diaspora. It is an established fact that the contribution of overseas Indians to the social, cultural, economic, philanthropic etc. spheres of India is very substantial. A sizeable body of literature now exists both in the forms of novels, biographies, autobiographies, diaries, short stories, dramas, poems (not to mention films) and also scholarly writings on issues related to the historical, anthropological, sociological, political and economic aspects of the process of migration of people. Diaspora Studies has opened up plethora of new research areas, which need to be studied and researched upon. The Centre with a multidisciplinary framework studies and addresses the mutual relations and converging contours of diaspora.

The Centre provides an excellent academic environment with a focus on participatory teaching and learning, use of ICT in teaching, periodical revision and updating of syllabus, field work exposures for students etc. The Centre invites scholars from prominent universities in India and abroad to deliver lectures on varied aspects of the subject, and it provides a platform for the students and faculties to learn the emergent issues in the subject. Students of the Centre are from different disciplinary backgrounds (in Humanities and Social Sciences). The faculty members of the Centre have their background in Humanities and Social Sciences and have specialisation in different aspects of migration and diaspora. The centre offers the following programme:

#### Programmes Offered

1. Ph.D. in Diaspora Studies

#### Faculty Profile:

##### **Dr. Atanu Mohapatra, Professor & Chairperson**

Areas of Research Interest: Diaspora Studies, Media Studies, International Relations, Development Studies, Research Methodology

**Email:** atanu.kumar@cug.ac.in

**Dr. Naresh Kumar, Assistant Professor**

Areas of Research Interest: International and Internal Migration (India), Issues of Indian diaspora, Migration and Development, Population Studies, Geography, Gender and Migration, Indian Diaspora in Gulf, Margins and Migration, Migration and Media, Tools and Techniques in Social Science Research Methods.

**Email:** naresh.kumar@cug.ac.in

**Dr. Rajneesh Gupta, Assistant Professor**

Areas of Research Interest: Diaspora and International Relations, Indian Diaspora Policy, Indian Diaspora in Africa, Issues of Identity Retention, Integration and Assimilation among Diaspora, Human Rights of Migrant and Diasporic communities.

**Email:** rajneesh.gupta@cug.ac.in

**Dr. Siba Sankar Mohanty, Assistant Professor**

Areas of Research Interest: Diaspora Studies, Culture Studies, Diaspora and International Relations, Diasporic Literature, International Migration, Caribbean Studies, Indian Diaspora in the Caribbean, Indentured Labour Migration.

**Email:** siba@cug.ac.in

**Mr. Chapparban Sajaudeen Nijamodeen, Assistant Professor**

Areas of Research Interest: Literary Criticism and Theory, Migration, Diaspora Studies, Refugee Studies, Human rights, Post-Colonial Studies, Post 9/11 Studies, Film Studies, Comparative Literature, Muslim Literature and Minority Studies.

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