

NEHRU GRAM BHARATI (Deemed to be University)

::Thrust Area for Research of NGB(DU)::

In Pursuance to the Updated Research Promotion Policy recommended by IQAC on 11-09-2019 followed by approval of the Academic Council/BoM , Research Thrust Areas of the NGB(DU) were finalized by various Departments in line with UGC-“Scheme for Transdisciplinary Research for India’s Developing Economy (STRIDE)”.

Sl. No.	Department	Research Thrust Areas
A. Faculty of Arts		
01	Hindi	<ul style="list-style-type: none"> ★ काव्य शास्त्र। ★ आदिवासियों के जीवन एवं चरित्र। ★ कम्प्यूटर में हिन्दी भाषा की कार्यक्षमता अंग्रेजी के समकक्ष करना ★ भाषा विज्ञान व प्रमुख हिन्दी ग्रन्थों की लेक्सिकोग्राफी। ★ हिन्दी में अन्य भारतीय भाषाओं के उत्कृष्ट साहित्य का मशीनी अनुवाद वास्ते युक्तियों का विकास की समीक्षा व उपयोग। ★ हिन्दी शब्द विभेदक (Part of Speech Analyzer for Hindi) समीक्षा। ★ ऑप्टिकल कैरेक्टर पहचान साफ्टवेयर समीक्षा। ★ कम्प्यूटर हार्डवेयर की जगह लेने वाले प्रगत सॉफ्टवेयर प्रणालियों की उपादेयता का अध्ययन। ★ उभयलिंगियों (LGBT) का आधुनिक तकनीकी युग में राष्ट्रनिर्माण में भूमिका।
02	English	<ul style="list-style-type: none"> ★ A critical review of 21st Century famous English Authors, Poets, Dramatists, Movies, Cultural Databases etc. ★ A comparative review of popular scientific articles published in various countries. ★ A critical review of Information Communication Technology support for English works. ★ Lexicography and e-Dictionaries. ★ Technology induced social changes, Life quality and its mirroring on English Literature.
03	Sanskrit	<ul style="list-style-type: none"> ★ महर्षि पाणिनीकृत व्याकरण और संगणक। ★ पुराणों में आनुवंशिक सूत्र श्रृंखला। ★ प्राचीन भारतीय संस्कृति का वैज्ञानिक आधार। ★ वेदों में वैज्ञानिक एवं तकनीकी तत्त्व। ★ वैदिक औषधियों। ★ वैदिक न्यायशास्त्र। ★ वास्तुशास्त्र। ★ आयुर्वेद। ★ योग।
04	Performing Arts	<ul style="list-style-type: none"> ★ Studies on Indian Classical Music & Instruments. ★ Evaluation of Music Contributions for Workers Productivity, Milk Yield, etc. ★ Music for recovery from Trauma and Top Life Killers.
05	Library & Information Science	<ul style="list-style-type: none"> ★ I.C.T. Role in Library Management. ★ Modern Techniques for desired Information Retrieval from Internet Resources. ★ Evaluation of Development in Search Engine Techniques. ★ E-Database for Archival of Ancient Forms of Knowledge Storage - Bhoj Patra, Microfisch, Microfilms, etc. ★ Review of latest ICT Tools for storage of Large Databases and data retrival, Data Analytics.
06	Journalism & Mass Communication	<ul style="list-style-type: none"> ★ Current Media and expanding role of Information Communcation Technology for News Production, Transmission, Stoarage, Retrival and usage. ★ Global Developments in JMC vis-a-vis their adaptation in India. ★ Reviews on achievements of Media Lab Asia and other Media Labs of advanced Countries.
07	Ancient History, Culture & Archaeology	<ul style="list-style-type: none"> ★ Historiography - Indian and Western. ★ Indian History and Connected Histories. ★ Historical Geograpy. ★ History of Science, Technology, Law and Medicine : Indian and Western. ★ Art and Cultural History. ★ Art and Archaeology of Religions. ★ Archeological and Textual Studies. ★ Ethnography and Archaeology.

		<ul style="list-style-type: none"> ★ <i>Socio-Cultural Anthropology.</i> ★ <i>Political and Economic Anthropology.</i>
08	<i>Political Science</i>	<ul style="list-style-type: none"> ★ <i>Indian Political Thought.</i> ★ <i>Western Political Thought.</i> ★ <i>Green Political Thought.</i> ★ <i>The Constitution.</i> ★ <i>International Relations.</i> ★ <i>International Laws.</i> ★ <i>Political Sociology.</i> ★ <i>Indian Govt. & Political System.</i> ★ <i>A Review of Indian Foreign Policy.</i>
09	<i>Sociology</i>	<ul style="list-style-type: none"> ★ Social Problems Identification and Evaluation of Role of (a) Social Pressure, (b) Advances in Technology, (c) Migration from villages to Cities and vice-versa (d) Globalisation. to solve Social Problems. ★ Disputes of Land Ownership undergoing Mutating Family Sizes and their resolution. ★ Curbing Casteism and Regionalism for inculcating Nationalism in the Citizens. ★ Social aspects of Job reservations on basis of Caste and its course for Development of Nationalism in the Masses. ★ Country Level Genuine Jobs Breakup vis-a-vis work force being rolled out with Certificates, ITIs / Diplomas / Degrees of Colleges, UG, PG, and Ph.D. Degrees from Institutes of Higher Education vis-a-vis manpower exports. ★ Evaluations for best utilization in Agriculture of modern developments like Kitchen Gardening, Small Holding Commercial Agriculture of Vegetables, Horticulture, Organic Farming, Contract Farming and related businesses like Modern Agricultural Machines based Services e.g. door to door Tractor Ploughing, Thrashing, Others etc. ★ Increasing Urbanization and Its Impact on Women. Empowerment, Old Age Parents Care, Urban Poores etc. ★ <i>Environment and Sustainable Development.</i>
10	<i>Social Work</i>	<ul style="list-style-type: none"> ★ <i>Labour Welfare and Human Resource Management in Global Context.</i> ★ <i>Manpower Development for Medical and Psychiatric Social Work employments.</i> ★ <i>Enhancing Role of I.C.T. in Rural Development.</i>
11	<i>Philosophy & Yoga</i>	<ul style="list-style-type: none"> ★ <i>Philosophy and Philosophical Traditions in different Historical Periods in India, China and Western World.</i> ★ <i>Logic, Epistemology, Metaphysics, Axiology, Ethics and Aesthetics.</i> ★ <i>Philosophy of Science and Technology and Development.</i> ★ <i>Philosophy of Social Science and Nationalism.</i> ★ <i>Modern Indian Philosophy and Philosophers.</i> ★ <i>Philosophy, Spirituality and Saint Tradition in India.</i> ★ <i>Applied Ethics (Environmental Ethics etc.).</i>
12	<i>Home Science</i>	<ul style="list-style-type: none"> ★ <i>Food and Nutrition.</i> ★ <i>Ayurvedic Treatment of Top Killers - Cancer, AIDS, Diabetes, Cardiac Arrest... through Proper Dieting and Naturopathy.</i> ★ <i>Extension and Communication.</i> ★ <i>Role of Home Traditions to produce outstanding professionals at every strata in Agriculture, Science, Technology, Medicine and Law.</i>
13	<i>Geography</i>	<ul style="list-style-type: none"> ★ <i>Environmental & Nature Studies.</i> ★ <i>Climate Change.</i> ★ <i>Natural Resources and their sustainable use for Rural Development, Agriculture, Health, Sanitation, Urbanization, Development.</i> ★ <i>Remote Sensing & GIS.</i> ★ <i>Gender & Development.</i>
B. Faculty of Science		
14	<i>Physics</i>	<ul style="list-style-type: none"> ★ <i>Condensed matter physics, Optical Physics (Physics and technology of ultracold atoms), Low Temperature Physics.</i> ★ <i>Optical Physics(Photonics).</i> ★ <i>Optical Physics (Quantum information Processing).</i> ★ <i>Optical Communications (Optical Fiber) Science & Technology, High Speed Optical Communications and Networking.</i>

		★ <i>Artificial Intelligence.</i>
15	Chemistry	★ <i>Nano Chemistry (Synthesis of Nano Structures and Nano Catalysis).</i> ★ <i>Green Chemistry.</i> ★ <i>Novel Routes of Organosynthesis.</i> ★ <i>Computational Chemistry.</i> ★ <i>Chemi-Informatics and Chemi-Bio Informatics.</i>
16	Botany	★ <i>Tribals and Environment Protection.</i> ★ <i>Cultivation of Medicinal Plants and Green House.</i> ★ <i>Geo Tagging and Remote Sensing.</i> ★ <i>Synthetic Ecology.</i> ★ <i>Bioremediation.</i> ★ <i>Environmental Aspects of Plant Taxonomy & Anatomy.</i> ★ <i>Nanobiotechnology.</i> ★ <i>Environment, Climate Change and Biodiversity.</i> ★ <i>Water Pollution in Sai River.</i>
17	Zoology	★ <i>Ayurvedic Formulations for Tribal and Rural Populations.</i> ★ <i>Cancer Research.</i> ★ <i>Bio Informatics and Drug Design In-Silico Studies.</i> ★ <i>Age related Neuro Degenerated Disorders.</i> ★ <i>Water & Energy Natural Resources Developments.</i> ★ <i>Agriculture : Integrated Farming, Food Security, Animal Husbandry, Dairy & Fisheries, Rural Development.</i> ★ <i>Rural Technologies (Product / Process Development and Value Addition).</i> ★ <i>Health, Hygiene and Sanitation.</i> ★ <i>Immunology, Immunotherapy & Immunoinformatics.</i> ★ <i>Benthic Ecology, Distribution Ecology, Aquatic Biodiversity & Environmental flow.</i>
18	Mathematics	★ <i>Differential Geometry.</i> ★ <i>Mathematical Modelling and Simulation.</i> ★ <i>Fluid Mechanics in Complex Systems like Blood Flow, Rivers Discharge Studies etc.</i>
C. Faculty of Commerce		
19	Commerce	★ <i>e-Commerce.</i> ★ <i>e-Supply Chain Management Systems.</i> ★ <i>Mobile Commerce.</i> ★ <i>Global e-Accounting Systems including GST.</i> ★ <i>Marketing.</i> ★ <i>Banking and Finance.</i>
20	Economics	★ <i>Division of Labour and Global Economics.</i> ★ <i>Developing Economies and self Reliance.</i> ★ <i>Economic Theories of Sustainable Development.</i> ★ <i>Rural Economics.</i>
D. Faculty of Management & Computer Applications		
21	Management	★ <i>e-Business.</i> ★ <i>Disaster Management.</i> ★ <i>Financial Management - Micro Finance to Global Finance.</i> ★ <i>Man Power Management.</i> ★ <i>Management of Methods, Machines and Materials.</i>
22	Computer Application	★ <i>Free and Open Source Softwares.</i> ★ <i>Artificial Intelligence.</i> ★ <i>Digital Image Processing.</i> ★ <i>Computer Aided Designs, Drafting.</i> ★ <i>Computer Aided Linguistics.</i> ★ <i>Intellectual Property Rights in Ever Advancing Information Communication Technology Era.</i> ★ <i>Computer Simulations for Self Organising Adhoc Networks, Wireless Sensor Networks and Other Networking Technologies.</i>
E. Faculty of Law		
23	Law	★ <i>Constitutional Laws.</i> ★ <i>Civil and Criminal Laws.</i> ★ <i>Consumer Law.</i> ★ <i>Company Law.</i> ★ <i>Environmental Law.</i>

		<ul style="list-style-type: none"> ★ <i>IT Law.</i> ★ <i>International Law.</i> ★ <i>Human Rights.</i> ★ <i>India's New Economy Development through Exclance in above Laws.</i>
F. Faculty of Education		
24	<i>Education including Teacher's Education</i>	<ul style="list-style-type: none"> ★ <i>Psychology and Education of Children, Teens, Adults and Senior Citizens.</i> ★ <i>Pedagogy Research.</i> ★ <i>Innovative Methods in Teaching and Learning.</i> ★ <i>Technology-enabled Education.</i> ★ <i>Problem-based Learning.</i> ★ <i>Primary and Secondary Education Reforms : India vs Globe</i> ★ <i>Higher Education Reforms : India vs Globe</i> ★ <i>Professional Education : Science, Technology, Medical and Law.</i> ★ <i>Education, Gender and Development.</i> ★ <i>Efficacy of Current E-Contents available on (a) E-PG-Pathshala, (b) CEC (UG), (c) SWAYAM, (d) MOOCs (e) NPTEL, (f) NMEICT, (g) Learning Management System of NGB (DU) vis-a-vis the You Tube Contents.</i>
25	<i>Special Education</i>	<ul style="list-style-type: none"> ★ <i>Electronics Aids for Physically Challengeds.</i> ★ <i>Computer and ICT Tools for Physically / Mentally Challengeds.</i> ★ <i>Global Developments in ICT for Physically Challenged / Mentally Retarded.</i> ★ <i>Evaluation of Best Jobs for each Category of Physically Challengeds and Mentally Retarded.</i>
