

SCHOOLS, DEPARTMENTS AND ACADEMIC PROGRAMMES

1. SCHOOL OF MATHEMATICS, STATISTICS & COMPUTER SCIENCE

Mathematics, Statistics and Computer Science have played a very important role in building up modern civilization by perfecting all sciences. The vision of the School is to provide quality education and to undertake and support the interdisciplinary research through interaction between Mathematics, Statistics and Computer Science and also with other domains of knowledge. It consists of three departments namely, the Department of Mathematics, the Department of Statistics and the Department of Computer Science. Setting a novel trend in interdisciplinary studies, the three departments under the School are not only educating and training their respective students but also helping other disciplines in their regular as well as special courses by providing relevant skill to solve academic and technical issues.

1.1 Department of Mathematics

The Department of Mathematics (DMTH) was started with the objective of producing trained manpower for undertaking research and teaching in Mathematics and allied branches of basic and applied sciences. The Department is committed to impart high quality education in Mathematics and currently offers a Master's Programme, a Ph.D. Programme and a 4-year Integrated B.Sc.-B.Ed. degree Programme with Mathematics as one of the courses. The Department also supports other departments by offering core and advanced courses in Mathematics. The department has a computer laboratory and all necessary computation facility needed for Mathematics.

1.1.1 Ph.D in Mathematics: Department of Mathematics is currently offering Ph.D. in Mathematics.

1.1.2 M.Sc./M.A. in Mathematics

The two-year (four semesters) postgraduate programme aimed to train the student in all the basic fields of Mathematics so as to develop in him/her skill for creative thinking, understanding fundamental concepts of the subject, problem solving and for achieving professional competence in Mathematics. The courses have been designed in such a way that the student will be able to learn the subject in a systematic and methodical manner under the able guidance of the faculty and general environment of the university. There are numerous avenues available to the student after the successful completion of the course. With the wide spectrum of elective courses in the 3rd and 4th semesters a student can opt for a career in research/ teaching/industry. The Programme has following features:

- I. A balanced blend of foundational, core and specialized courses.
- II. Ample scope for enhanced interactive teaching in view of the relatively small student teacher ratio.
- III. Extensive choice of elective courses enabling the student to specialize in various existing and emerging streams of Pure and Applied Mathematics.
- IV. Option to choose some of the open elective courses offered by sister departments such as Statistics and Computer Science.

1.2 Department of Statistics

The Department of Statistics established in 2010, is committed to provide a vibrant and creative learning environment to students willing to make a career in the field of core and interdisciplinary statistics. The academic activities of the Department emphasize deep understanding of fundamental concepts and development of the analytical ability to solve real-life problems. It also encourages students to engage in extra-curricular and co-curricular activities, essential for development, nurturing of team spirit and developing organizational skills.

Classroom teaching of the Department is supported by the continuous evaluation system which is followed to assess the progress of the students. There is a well-equipped computer laboratory with high speed Internet connection and the software's that include Minitab, SPSS, R, MATLAB, WEKA to work with. There are as many as 50 computer terminals to facilitate the computational requirements. After successful completion of the course, the students can move forward for a career in research / teaching / industry.

1.2.1 Ph.D. in Statistics

The Department of Statistics is currently offering Ph.D. with diverse field of specialization including Bayesian Inference/Modelling and Computations- Survey Sampling Theory and Methods, Demography and Multivariate Techniques, etc.

1.2.2 M.Sc. Statistics

The two-year (four semesters) Post-Graduate programme aims at imparting training students in theoretical and applied aspects of Statistics with due emphasis on the computational aspects. The students undergoing the programme are trained in fields like Demography, Statistical Quality Control, Business Analytics, Bayesian Statistics, Survey Sampling, Multivariate Analysis, Survival Analysis, Operation Research, etc. A student undergoing this programme may also opt for electives offered by the sister departments namely, Department of Mathematics, Department of Computer Science, etc. depending upon his/her interest and aptitude.

One of the SWAYAM course (Statistics)- Distribution Free Methods, Econometric Analysis, and Probability and Stochastic for Finance, may be opted by students as the Elective-X during Semester-IV

²The skill based/Self-study courses-Latex and Computer Based Data Graphing have been included to enhance students' skills in scientific typing and computer based writing and presentation.

1. Note: All the core and elective courses are open to the students of other departments subject to satisfying the prerequisites.

1.3 Department of Computer Science

The Department of Computer Science is currently offering Ph.D. and M.Sc. in Computer Science. It aims at developing high quality workforce in technical education and research in the area of Computer Science and Information Technology for future Nation building. The department also offers several attractive training and workshop programmes according to the market need.

1.3.1 Ph.D. in Computer Science: Department of Computer Science is currently offering Ph.D. in Computer Science.

1.3.2 M.Sc. in Computer Science

The two-year (four semesters) Postgraduate Programme has been designed to focus on the theoretical concepts as well as on practical knowledge and industry interaction. The exercises/assignments/ projects given to students ultimately enable them to become independent quality professionals and researchers. The programme has the following salient features:

- Designed to take students through rigorous ground-work for taking up research, or coming out industry ready.
- Sound foundation in the fundamentals of Computing, Mathematical and Statistical sciences.
- Ample technology orientation via laboratory-intensive courses.
- Students work for six months project in reputed research and training institutes/organization.
- Rich (open) elective course basket providing plenty of space for inter-disciplinary knowledge acquisition required by several emerging areas.

2. SCHOOL OF PHYSICAL & CHEMICAL SCIENCES

2.1 Department of Physics

Department of Physics, under the umbrella of School of Physical & Chemical Sciences, has been providing support to the undergraduate programs of Central University of South Bihar (CUSB) since its inception. The M.Sc. Degree Program in Physics was launched from the academic session 2018-19 with the intake of 35 students and from academic session 2019-20, the department is running the Ph.D. programme in various frontier areas of physics such as Nuclear & Particle, High Energy Physics, Astroparticle Physics, Low energy neutrino Physics, Dark Matter, Detector development and Data Acquisition System (DAQ), Experimental condense matter Physics and Material Science, Superconductivity (Theory), Nano-science and technology (Theory), Metallic glasses (Experimental), Molecular Motors, Molecular Spintronics, Two-dimensional superconductivity, Material synthesis, crystal growth and characterization (Piezo, ferro, semiconductor and NLO), Synthesis & Characterization of Nano material, magnetic and hydrogen storage properties, Noncommutativity and deformed special relativity. In addition, from the upcoming session 2020-21, the department is going to start one major undergraduate programme namely B. Sc. Honours in Physics – a three year degree course as per UGC CBCS norms. From the same academic session department is going to offer two specializations in postgraduate programmes such as Material Science, and Nuclear & Particle Physics.

The Department of Physics is committed to engage in high quality research and in the pursuit of excellence in teaching. The faculty members of the department are actively involved in cutting-edge theoretical and experimental research in challenging areas as mentioned above. To promote interdisciplinary research for solving grand challenges facing our society, the department has established both intra-university as well as inter-institutional collaborations with laboratories in India and overseas. The department of physics has active national and international research collaborations.

2.1.1 Ph.D. in Physics

The broad areas of research in the department of Physics are hard/soft condensed matter physics, spectroscopy, nanoscience and nanotechnology, materials science, and Nuclear and Astroparticle Physics. In due course we will also open research areas related to computational physics, theoretical biophysics, and space physics. All the students will be required to successfully complete a course work before beginning the research towards their Ph.D. thesis. The tentative course work structure, subjected to the approval from the Board of Studies.

2.1.2. M.Sc. in Physics

The objectives of this program are to cater and to meet the needs and aspirations of contemporary M.Sc. Physics students. It is tailored to incorporate the essential ingredients of multifaceted education and research for this rapidly changing world. This program aims to (i) provide the much needed and strong foundation in Physics so that students can develop the ability to apply the knowledge of Physics in any allied fields, (ii) help students to develop programming proficiency with high end software for both computation and automation, (iii) give students an opportunity to use advanced laboratory equipment to get acquainted with them, (iv) present a platform to students for training in both mechanical and electronic hardware for basic and applied research, (v) offer necessary soft skills to the students to build their professional career, (vi) to make the students well aware about the radiation safety and precautions that will help the society to make their life better, (vii) to enhanced their knowledge in the area of nuclear and particle physics that will help in making their contribution in country's nuclear energy and national security and safety programmes.

2.2 Department of Chemistry

Vision:

To achieve the status of state of art in the field of Chemical Sciences by creating an exciting, diverse, collaborative and supportive environment for the learners so that they shall achieve social, moral and ethical values along with the competency to face the new challenges of rapid technological advancements in the field of Chemical Sciences.

Mission:

- To impart quality and value based teaching & learning towards the formation of a knowledge based society
- To develop liaison and collaboration with the globally recognized academic institutions in order to inject new and fresh thinking in teaching, learning and research
- To generate intellectually capable professionals having environmental consciousness, social and ethical values to work as an individual or in group of multi-cultural environments.

About the Department:

The Department of Chemistry was established under the School of Physical and Chemical Sciences. Faculty of the department is highly qualified, dynamic and research oriented with exposure to reputed international Universities/Institutes. At present department is running a PhD programme, MSc Chemistry programme and planning to start BSc (Hons) in Chemistry from next session. The department believes in interdisciplinary approach of learning and fosters a culture of excellence. Students of the chemistry department are being nurtured and mentored well to compete at the national and international level. The postgraduate programme was started in the academic session 2018-19. The department envisage scaling greater heights with the launch of post-graduate and PhD programmes and producing globally competent chemists who can help in solving the pressing problems faced by chemical and pharmaceutical industries.

Faculty members of the department are working in the frontier areas of the research in the field of chemical sciences. The major research focus of the department is Organic synthesis, Medicinal Chemistry and Material Chemistry. Faculty members are working on design, synthesis and screening of small organic molecules as potential drug candidates for the treatment of various diseases including neurological disorders and cancer. Although department has just started its journey however, faculty members are involved in quality research and publishing in highly reputed international journals. Recently Dr Amiya Priyam has filed a patent

application on nano technology based hollow silver nano shells having therapeutic applications in the treatment of cancer.

- The Department is equipped with sophisticated scientific instruments/equipments such as, Gas chromatography-mass spectrometer (GC-MS), Liquid chromatography-mass spectrometer (LC-MS), Flash Chromatography, Raman Spectrometer, UV-visible Spectrometer, Fluorimeter, FTIR, Dip Coater, Contact angle meter, Polarizing Optical Microscope, Impedance Analyzer, Cyclic Voltammeter, CHN Analyser, Tensiometer, High Performance Cluster Computing (HPCC), Polymerase Chain Reactor (PCR), Rotary evaporators, Auto clave, Microwave synthesizer, Photo reactor, High pressure reactor, etc.

2.2.1 Ph.D. in Chemistry

The faculty members and students of the department are engaged in cutting edge research at the frontiers of science. The launch of Ph.D. programme in the upcoming academic session in 2019-20 will further strengthen and institutionalize the culture of research and innovation. The department follows an interdisciplinary approach and offers diverse areas of research which include nano-chemistry, materials chemistry, organic synthesis, medicinal chemistry, photochemistry, catalysis etc. To further encourage the interdisciplinary research, the department has established inter-institutional links and collaborations with renowned laboratories and universities. During the programme, students will acquire new skills while working on state-of-the-art instruments in the department. The ultimate aim of the programme is to produce globally competent chemists who can critically think and analyse a problem, and develop innovative scientific solutions. Equipped with sound knowledge and lab skills, the doctoral students would be able to address some of the biggest scientific challenges facing the mankind today such as energy crisis, lighting & displays, sanitation, diagnostics & therapeutics and many more. The successful completion of the Ph.D. programme will ensure enhanced employability and the students are likely to get positions of eminence in leading research and academic institutions in India as well as abroad.

2.2.2 MSc. in Chemistry

The programme is for the students who have an interest in chemistry and a desire to explore the frontiers of science. This is a unique programme that combines core chemistry (Organic, Inorganic and Physical) with Nano Chemistry and Green Chemistry. Along with thorough grounding in chemistry, it equips the students with the knowledge and skills in the emerging interdisciplinary area of green nanotechnology which has now become a crucial requirement for the sustainable development globally. Computational Chemistry and Medicinal Chemistry have also been incorporated to equip the students better. The programme follows choice-based credit system (CBCS) where students have the liberty to choose courses from the elective baskets of our department or other departments. The students also have the freedom to choose a few online courses through SWAYAM (Study Webs of Active –Learning for Young Aspiring Minds) portal which further enhances learning. The programme envisages creating good bench strength of future scientists who can solve a wide range of issues and contribute to the scientific advancement of the nation. There is ample opportunity and employability of chemists having sound knowledge, analytical skills and hand-on training on the sophisticated instruments. The chemical industry is India's one of the largest manufacturing sectors and plays an integral role in the country's economic development. The Indian chemical sector currently accounts for 13-14% of total exports. In terms of volume of production, it is the twelfth-largest in the world and the third-largest in Asia. Currently, the per capita consumption of products of the Indian chemical industry is one tenth of the world average, which reflects the huge potential for further growth. The "Make in India" scheme has further given a

fresh impetus to this sector. For a sustainable, environment friendly growth, the sector is looking for new technologies that incorporate green chemistry and nanotechnology and there lies the exciting and excellent career opportunities for young chemists. Besides chemical industry, the training imparted in the interdisciplinary area of green nanotechnology will also enable the students to diversify and join other sectors such as energy, photovoltaics, photonics, biosensing and healthcare etc. The curriculum has been designed to keep abreast with changing times. In the long run, the programme is likely to produce globally competent chemists with bright innovative ideas. By understanding the nuances of chemistry, these young scientists would be creating new tools, products and technologies to address some of the world's biggest challenges such as (just to name a few) clean affordable energy, biomedical devices and drugs for treating diseases, biosensing and environmental remediation etc.

3. SCHOOL OF EARTH, BIOLOGICAL AND ENVIRONMENTAL SCIENCES

It is a century of biology and most of the challenges that we are facing in today's time are global warming, pollution, human diseases and changes in our natural resources. A deeper understanding of biology will not only allow us to overcome these problems but also help to sustain the existing natural resources. The school of earth, biological and environmental sciences plays a leading role in achieving this goal. Our strengths lie across the fields of genomics, biochemistry, informatics, emerging infections diseases, basic and applied biology. These strengths are underpinned by faculty members who are expert in their fields and are re-investing their knowledge through exceptional students training at graduate, postgraduate and Ph.D. level.

3.1 Department of Biotechnology

The Department of Biotechnology is currently offering Ph.D. and M. Sc. Biotechnology programmes. These Programmes include well-designed theory and practical courses. Innovation-based training is the key to train students with a special emphasis on understanding the basic as well as modern concepts in biological processes for pursuing research in frontier areas of Biological Sciences. The Postgraduate Programmes equip students with deep theoretical as well as practical understanding of different aspects of Biological processes and promote them to take on an integrative approach for their studies and research.

Biotechnology has emerged as a major thrust in the field of science and technology having potential to boost the economy of several countries including India. The voice of global Biotechnology in 21st century is to transfer the bio-based technology from "Lab to Land and from Bench to Business" to bring the cost of bio-based commodities within the reach of common man. The courses in Department of Biotechnology are mainly related to recent and emerging trends in Biology but the students are also taught Biostatistics and Bioinformatics which enable them to analyse their data, draw meaningful conclusions and publish in reputed journals. The Programme equally gives emphasis on integrated approaches in the basic and applied biology viz. Olfaction, human health, recombinant DNA technology, transgenic development, bioremediation and informatics. Students work directly with faculty on real-world projects, gaining hands-on skills necessary to solve emerging problems.

Currently, departmental research is mainly focussed in the areas of Cancer Biology, Autoimmune Diseases, Fungal Diseases, Lung Physiology, Behavioural and molecular Neuroscience, Immunology, Genetic Engineering, Stem Cell Therapy, Proteomics, Molecular Biology, Signal Transduction, Interferon (IFNs) Transcription Factors, Biochemistry of Fungal Pathogens and Genesis of Secondary Metabolites as well as Genetic manipulations of Plants which include Plant Tissue Culture and Molecular Marker Developments.

Apart from above advantages, M.Sc. Biotechnology Programme prepares the students to be the leaders in research, policy and business.

The department of Biotechnology is equipped with state-of-the-art technology and equipment that provide a stimulating environment for teaching and research. The department of Biotechnology is actively involved in research by having the distinction of running more than 10 externally funded R & D projects sanctioned from various Government agencies.

3.1.1 Ph.D. in Biotechnology

The Department of Biotechnology is currently offering Ph.D. with diverse field of specializations including Neurobiology, Cancer Biology, Plant Biotechnology, Bioremediation, Infection Biology, Stem cell Biology, and Immunology.

The syllabus was framed with a great care so that the theory, practical and tutorials would meet the requirement of such a challenging and demanding field. Innovation-based training is the key to train students with a special emphasis on understanding the basic as well as modern concepts in biological processes for pursuing research in frontier areas of Biological Sciences.

Department of Biotechnology equip researchers with deep theoretical as well as practical understanding of different aspects of Biological processes and promote them to take on an integrative approach for their studies and research. The students are well trained for both dry and wet-lab techniques enabling them to better suit for different research laboratories and industries which look for personnel well-taught in programming languages, can do molecular modelling and also have abilities to work on bench producing raw data to analyse further using various Biotechnology tools.

3.1.2 M.Sc. in Biotechnology

The two year (four semesters) Post-Graduate Programme has interdisciplinary approach with participation of faculties/researchers across the University with **Choice based Credit System (CBCS)**. Hands-on training with professional and management skills are keys to our teaching pedagogy. This Programme focuses on responsibility building and ethics in research and policy. We are equally giving emphasis on integrated approaches in human health, transgenic crop development, environmental sciences and informatics. The course also comprises of project dissertation, presentation and comprehensive viva-voce as part of evaluation system. Students also visit major research institutes in the form of educational tour and Biotechnology industries to learn various aspects of product developments. One of the major goals of the Biotechnology Programme is to engage students by actively involving them in cutting-edge research.

3.2 Department of Life Science

The discipline of Life Science covers several areas of Biological Sciences including Biochemistry, Microbiology, Molecular Biology and Environmental Science related to “Life in Diversity”. It has a good balance of animal and plant sciences which broaden the student’s knowledge and capabilities and they have diverse teaching in each of the semesters, as and when it is announced. This is compulsory; otherwise the

examination result of that student shall be withheld. The Postgraduate programmes equip students with deep theoretical as well as practical understanding of different aspects of Biological processes and promote them to take on an integrative approach for their studies and research. The syllabus was framed with a boundless care so that the theory, practical and tutorials would fortuitous the requirement of various competitive examinations and higher education. The department of Life Science is equipped with state-of-the-art technology and equipment that provide a stimulating environment for teaching and research. The department of Life Science is actively involved in research by having the distinction of running funded projects sanctioned from various Government agencies. In Department of Life Science, students from different sciences are also inducted to study life sciences.

3.2.1 Ph.D. in Life Science

The Department of Life Science is currently offering PhD with diverse field of specializations including Plant Molecular Biology, Bioremediation, Infection Biology, Structural Biology, Microbiology and Immunology.

3.2.2 M.Sc. in Life Science

The two year (four semesters) Post-Graduate Programme has interdisciplinary approach with participation of faculties/researchers across the University with Choice based Credit System (CBCS). Master of Science in Life Science is designed to give opportunity to learn modern biological techniques and provide conducive environment to understand basic and applied fields of biological sciences such as genetic engineering, immunology, recombinant DNA technology, protein crystallography, neurobiology and microbiology etc. This platform nurtures student's thinking to observe, analyse, interpret and utilize the biological techniques and phenomena in basic as well as applied fields. Different modes of teaching are adopted to train students. Presentations, assignments, experimental proof of theories, field observation, data analysis and computer applications in biology are few methodologies, which are being applied for teaching. To engage a student's mind in the course, a continuous evaluation method is being followed. In addition, credits scores area also assigned for summer internship to utilize vacations and provide students laboratory exposure.

3.3 Department of Bioinformatics

The post-genomic era has led to emergence of bioinformatics as an important discipline with wide-ranging applications from marker development and diagnostics to drug discovery and toxicological predictions. Bioinformatics is an interdisciplinary subject, which is an amalgamation of biology, chemistry, physics, mathematics, statistics, computer science and information technology. The department offers two programmes – PhD and MSc in bioinformatics. In these programmes, the students are trained with the latest and emerging technologies, enabling them to better suit for different research laboratories and industries, requiring manpower skilled in programming languages, data analytics, machine learning techniques, computational modeling and drug design and also have abilities to work on bench. Students are provided support and encouragement to gain experience in the established labs for their project and publish their research work.

3.3.1 Ph.D. in Bioinformatics

The Department of Bioinformatics is currently offering Ph.D. with diverse field of specializations including Molecular Modelling and Simulation, Computer Added Drug Designing (CADD), Big Data analytics, Functional Genomics, Biological Database and Server development. The programme trains researchers with deep theoretical as well as practical understanding of different aspects of biological systems and processes, and encourage them to take on an integrative approach for their studies and research. The students are well trained

for lab techniques enabling them to better suit for different research laboratories and pharmaceutical and biotechnology industries.

Thrust Areas of Research

Protein modelling and Simulation, Computer Added Drug Designing (CADD), Data mining, Evolutionary analysis, Biological Database and Server development, Transcriptome and proteome analysis, System Biology, X-ray crystallography and structure biology, Free energy perturbation, Big Data analysis and Machine Learning in Biology.

3.3.2 M.Sc. Bioinformatics

Bioinformatics is a rapidly growing field of interdisciplinary study at the interface of biology and information technology. As such, Bioinformatics brings together Molecular biology with areas from Statistics, Mathematics, and Computer science. Bioinformatics now entails the creation and advancement of databases, algorithms, computational and statistical techniques, and theory to solve formal and practical problems arising from the management and analysis of biological data. Considering the interdisciplinary nature of Bioinformatics, this master programme has a major component from related subjects under one umbrella. The post graduate programme is primarily a skill-based program.

Objectives

The core objective of the programme is to provide quality education to the graduates, who want to pursue their career in the emerging areas of Bioinformatics and Computational Biology.

- To serve as a nodal point for Bioinformatics and its applications
- To provide industry interface to the students for research project
- To build skilled manpower for drug design and pharmaceutical industry

3.4 Department of Environmental Science

The department offers M.Sc. and Ph.D. Programme in Environmental Science which revolves around multidisciplinary and integrated study of the Earth, Atmospheric, Biological and Chemical processes and their linkages with developmental perspectives for attaining a sustainable environment. The focus includes complex interactions between the different components of nature (between and beyond disciplinary boundaries), impact on food security and associated ecosystem services in the immediate and long-term perspectives, besides environmental monitoring and management.

Environmental Science Laboratory

The department is equipped with environmental science laboratory for high end research and teaching purposes. The well-equipped wet laboratory is meant for carrying out experimentation and research in Ecology, Biomanipulation and biocontrol, Biogeochemistry, Pollution monitoring and control, Environmental Engineering, Environmental biotechnology and microbiology, Ecotoxicology, Soil sciences, Solid Waste management and many others. Important equipment of environmental science laboratory are Atomic Adsorption Spectrophotometer (AAS), UV-Vis-spectrophotometer, CHNS analyzer, Ion chromatograph, Automated solvent extractor, Gas Chromatograph (GC), Gas Chromatograph Mass Spectroscopy (GCMS), Kjeldahl nitrogen assembly, Microwave digestion system, Rotary Evaporator, Flame photometer, Incubator shaker, BOD incubator, Respirable dust sampler.

The dry laboratory carries research on Climate Modelling, Monsoon Studies, Climate Change, Remote Sensing and others. The laboratory includes high speed IBM/HP (Unix/Linux) Servers, High Speed Computing Facility (HPC), Regional Climate Models (PRECIS, WRF, RegCM4), Climate data analysis tools, IPCC models outputs, GIS software ArcGIS10.2 are available for weather and climate modeling studies. The dry does have Atmospheric Lightning Sensor under Lightning Location Network (LLN) program of Ministry of Earth Science, Govt of India.

3.4.2 M.Sc. in Environmental Science

The two-year (four semesters) Postgraduate Programme is designed to provide necessary knowledge and skills to postgraduate students, so that they can learn to analyze and assess environmental systems and problems; be able to propose sustainable solutions and contribute to the development of policies and strategies for environmental planning. The major thrusts of the programme are:

1. To study natural resources, the impacts of human activities thereon and the implications of environmental degradation on human development.
2. Natural Processes in the Environment, which focus on the natural processes such as the Atmospheric, Biogeochemical, Ecological and Hydrological processes
3. The Human Dimension of Environmental Change: to understand the determinants of the growth of populations and economies, and how this growth results in demand for natural resources, leading to scarcity, pollution and risks for human health
4. Analytical Tools in Environmental Science: basic tools for analyzing environmental issues, such as data collection and analysis and modelling of air, water, soil and biological systems.

4. SCHOOL OF SOCIAL SCIENCES & POLICY

The School of Social Sciences and Policy embodies cohesiveness of multiple disciplines that seek its relevance in understanding and analyzing human behavior in an integrated framework. The school has four centres namely Centre for Development Studies, Centre for Economic Studies and Policy, Centre for Sociological Studies and Centre for Political Studies. It continuously endeavors to blend its teaching engagement with empirical research. Academic programmes based on the emerging debates both in the theoretical and empirical planes in respective disciplines also see its engagement in continuous search for building- up a new knowledge-base relevant to the developing world particularly. For teaching, research and training. The School of Social Sciences and Policy looks forward to learn from the development experiences of the world at large. In the process, it does not exclude the local economy, society and polity. Its agenda and implementation of the same by way of organizing Seminar, Workshop and Development Dialogue embed the essence of the School.

4.1 Department of Development Studies

The Department of Development Studies is the pioneering department of the Central University of South Bihar, under the School of Social Science and Policy. During the last 10 years of her existence, the Department could train hundreds of development practitioners to cater to the requirements of various sectors of our economy. Being a multi-disciplinary subject, development studies is one of the most opted course under the branch of

social science. However, only a very few institutions of repute offer this course at present. Development studies is an ever-evolving and ever-changing subject, which teaches topics of varied interests such as public policy and planning, demography, human development, NGO management, social exclusion and inclusion, social entrepreneurship, corporate social responsibility, poverty, empowerment, gender budgeting and so on and so forth. So, the present socio-economic issues of India can be better appreciated and solved only when the younger generation is equipped with such a transdisciplinary theory and practice of development management. It is in this background, that the curriculum and syllabus of the MA Programme in Development Studies has been framed. Field work and rural immersion are part and parcel of this programme. Apart from this, the department provides students an atmosphere of both theoretical and practical exposure to the enlarging social and economic issues through class room-based teaching, field level experiences, academic conference and deliberations and engagements with industry-related stakeholders.

4.1.1 Ph.D Programme in Development Studies

Adhering to the UGC regulations and ordinance issued by the University from time to time, we offer Ph.D. programme in Development Studies with the following courses.

4.1.2 M. A. Development Studies

Through this course, we combine both the theory and practice of core subjects such as Economics, Political Science and Sociology to evolve solutions to the development problems facing the country. So, it is truly a multi-disciplinary programme which spans for two years over four semesters. Along with the class room instructions, the course is delivered through field work, research and rural immersion. Practical application of theoretical knowledge in statistical and ethnographic methodology lies at the heart of this programme. All the class rooms are connected by smart boards with wifi-connectivity. We have in place MoUs and internships with reputed development sector organisations. Many of our alumnae have been placed in leading NGOs like CARE INDIA, AGHAKHAN FOUNDATION etc., and have also cleared numerous public service commission examinations. Some of them have also forayed into academic research in reputed institutions like IITs, JNU, DSEs and South Asian Universities.

4.2 Department of Economic Studies and Policy

The Department of Economic Studies and Policy looks at academic engagement with a difference. While the major focus of the Department is on teaching of basic principles of economics, its search is for new epistemology, both in theory and practice. It keeps on improving its course curriculum on a regular basis based on the evolving theoretical paradigms in the field of economics by different schools of thought that have ontological bearings. The diverse knowledge base in economics and its ramifications on the society continues to be a primordial source of choice for direction of research. The Department nurtures creative impulses of both faculty and students and continuously provides forums for developing critiques of existing theories and practices only to create a new space for the latter. In this process, it contextualizes emerging theoretical postulations at all levels including local, sub-regional, national, and international. The Department aspires and attracts students and teachers from all over the country and abroad to develop it as a unique place of learning and develop collaboration with other institutions for teaching and research.

4.2.1 Ph.D. in Economics

The students of this programme are encouraged to develop analytical perspectives required to explore new horizons of knowledge in the field of economics. The compulsory courses of this programme help to stimulate

creative impulses of the students besides exposing them to various methodological aspects of research. Eventually, the students are able to produce a good research output examining the validity or otherwise of the existing theoretical paradigm(s) at the backdrop of the empirical research that has sound implications for policy.

4.2.2 M.A. in Economics

The two years (four semesters) post-graduate programme is designed to train the students on the ever-expanding knowledge base in economics – both theoretical and applied. The students are not only exposed to alternative theoretical paradigms in economics but also trained to improve their analytical and quantitative skills for evaluating the policies emanating from the theories. The students undergoing such trainings would be equipped to undertake studies at a higher (doctoral) level and join academic profession or to adopt professional career in the corporate/government sectors.

4.3 Department of Political Studies

The **Department of Political Studies (CPS)** is one of the Departments in the School of Social Sciences and Policy which embodies cohesiveness of multiple disciplines that seek their relevance in understanding and analysing human behaviour in an integrated framework. The department continuously endeavours to blend its teaching engagement with empirical research. DPS strives to cover all aspects of the discipline in the context of Traditional, Modern and Post-Modern approaches. It emphatically identifies the new problem areas of the polity and politics and tries to offer solutions through teaching, research and creation of new knowledge. The Department endeavors to put political studies into practice through deconstruction of impending social, political and economic issues as part of its Post-Graduate programme. In its inter-disciplinary approach, the Department provides an opportunity to combine both theory and practice. The Department ensures to equip the students with the philosophical and theoretical perspectives along Indian and Western traditions as well as its practical applications. It continues to nurture motivation in students for the advancement of political analysis at all levels: regional, national and international. Alongside the Post-Graduate programme, the Department also caters to the need of Undergraduate integrated programmes of the University, e.g. Five-year Integrated BA.LLB. programme and Four-year Integrated BA.B.Ed. programme. Overall the Department has taken initiatives to provide good, ethical, knowledgeable, and employable citizens to the society.

4.3.1 Ph.D in Political Science & International Relations Department of Political Studies is currently offering Ph.D. in Political Science & International Relations.

4.3.2 M.A. in Political Science and International Relations

The two-year (four semesters) Post Graduate Programme is designed to equip the students with the philosophical and theoretical perspectives in the Indian and Western traditions along with their practical applications as mentioned above. It also aims to impart critical thinking and methodological skills of academic and action-oriented research. The programme endeavours to study issues that polity and politics have been confronting with in the Indian, comparative, international, regional and local milieus. It also inculcates among the students contextually appropriate sensibilities towards traditional, modern and postmodern approaches to the discipline of Political Science.

4.4 Department of Sociological Studies

Sociology originated as an intellectual response to the crisis confronting the mid nineteenth century European society. Its development over a century and a half since then has been influenced by a variety of

socio-economic and political conditions where it has been taught and practiced. It is now established as a multi-paradigmatic academic discipline, with its body of theoretical knowledge enriched and its methodological techniques and procedures systematized.

As Sociology helps us see the world from many vantage points keeping self-reflexivity and critical reflexivity, the Department focuses on teaching as well as research in theoretical, methodological and applied understanding emphasizing on inter-disciplinary approach. As per the mandate of the CUSB, the Department seeks to explore various issues and problems related to the socio-cultural understanding in the context of national development for knowledge generation. Apart from teaching courses in Sociology, the Department accentuates on training students in social sciences methodology and the techniques of social research in both qualitative and quantitative aspects.

Human development is the core of all development discourse. Human resource development through higher education is of great importance for a successful societal development and welfare of a nation. To this end, the Department has been striving to contribute its share by training competent Sociologists who can promote socioeconomic development and welfare at all levels of the diverse cultures and communities of India. Its various offered common courses are aimed at producing competent and skilled citizens who can help in transforming their own people's lives. The Department encourages students in terms of learning and understanding of the courses through active participation in and outside classroom. Apart from the classroom teaching, students will be evaluated continuously on their active engagement through tutorial, book review, term paper/assignment, presentation, seminar, workshop, etc.

Vision:

To be recognised globally by acting locally through generating applicable knowledge in the field. This will help increase understanding about Society, its problems and needs. Therefore, the Department is visionary in its action and scope in such a way that will produce professionals who can serve as effective leaders and actors in any development endeavours across the world.

Mission:

To place the Department on the top of the academic excellence all across the world in general and India in particular by providing an environment where the learners could fulfil their dreams and achieve their maximum merit, and will be working to nurture the local talents and disseminate knowledge.

Objectives of the Centre:

- 1) To equip the students with latest sociological knowledge pertaining to various sub-fields within the discipline of sociology.
- 2) To orient the students for comprehending, analyzing and critically assessing the social reality from sociological perspective.
- 3) To inculcate the analytical ability, research aptitude and relevant skills in the students useful for their social and professional life
- 4) To prepare the students for undertaking research, jobs in Colleges/Universities/Research Institutions, various Government Departments and Non-governmental organizations as well as for various competitive examinations.

4.4.1 Ph. D. in Sociology

The Department aims at teaching and research that largely include – Theory and Thought; Methodological and theoretical Orientations; and Substantive Studies on different dimensions of social life. In

this programme, interdisciplinary orientation is reflected in the contents of the courses offered. The main areas of the research include Indian Social Thought, Sociology of Religion, Sociology of Peace and Conflict, Gender Studies, Social Demography, Social Exclusion, Culture and Development, Social Stratification, Dalit Studies, Rural Sociology, Education, Health Care.

4.4.2 M.A. in Sociology

The teaching and research at the Department primarily include three aspects of sociological studies - Theory and Social Thought; Methodological Orientation and Methods of Social Research; and Substantive Studies on Different Dimensions of Social Life. In this programme, interdisciplinary orientation is reflected in the structure as well as in the contents of the courses offered at M.A. For Master's Programme, the Department provides some core courses on Classical Sociological Thinkers, Indian Society: Structures and Processes, Social Stratification, Sociology of Family and Marriage, Sociological Theories, Methods and Techniques of Social Research.

4.4.3 M. A. in Social Work

Students joining the Social Work bring various academic and personal background. They come with their own distinctive professional and personal reasons for pursuing a master's degree in social work. Thus the curriculum is designed in such a manner that the students can easily build on what they have, by taking advantage of new teaching methods, which strengthen their basic skills and concepts. Keeping this and the changing prospects from the profession in mind, the Department has fabricated its course curriculum. The M.A. Programme is divided into four Semesters.

4.5 Department of Historical Studies & Archaeology

The Department of Historical Studies and Archaeology offers the students an advanced system of knowledge full of new epistemological and ontological foundations and research explorations in the realm of historical studies. The reconstruction and the understanding of the past is of paramount importance to protect and preserve the cultural and intellectual heritage and also to know about the true spirit of a nation. India, as a nation, has traversed a tortuous trek on the cultural, civilizational and historical course. India abounds in stupendous historical events in different spheres of human existence from cultural to socio-economic and politico-administrative fields. Moreover, India has a distinction of waging the greatest mass movement in the form of the National Freedom Struggle, unparalleled in the world history, and unique amongst the third world countries. The colossal sacrifices of Indian masses, intelligentsia, commoners including peasants, tribes have been unprecedented in the world history. The uniqueness and vastness of India's past prompts the Department to endeavor towards further exploring the erstwhile historical phenomena entailing newer and innovative approaches exploiting the ever growing interface between education and technology. The Department endeavors to explore new frontiers of research and knowledge-creation within the existing pool of knowledge in History. Inculcation of commitment to India's culture and tradition within the contending frameworks of contemporary 'Idea of India' remains the central focus of Department's teaching-learning method.

VISION:

The vision of the Department is to spearhead the research activities particularly in the field of Indian culture. As the university is located in Gaya, the heart of Buddhism, the Department has the unique advantage of utilizing

the sources in the Buddhist studies in the pursuit of the further research in this field and also establishing academic relations with the educational institutions in other Asian countries having stronger Buddhist influence and thus promoting exchange of ideas globally. Further, this region has also remained at vanguard in the Nationalist Movement right from the revolt of 1857 to the revolt of 1942. So, the region is naturally abundant with rich historical sources to attract new researches in this field and the Department looks forward to take this advantage.

Objectives:

- The primary objective of the Department is to emphasise the importance of theory and analytical concepts in reconstructing the past.
- To promote researches in hitherto unexplored areas with a focus on the primary sources in languages ranging from Sanskrit, Pali, Prakrit to modern Indian languages, along with the archaeological sources.
- To focus on the study of contemporary Indian History along with exploring the history of other countries.
- To focus on historiography and the philosophy of history and to follow new global historiographical trends such as oral history, gender history, intellectual history, cultural history, subaltern history and the post-modernistic perspectives.

4.5.1 Ph.D. in History

The Department of Historical Studies & Archaeology is going to offer Ph.D in History from this session.

4.5.2 M.A. in History

The Department offers Master programme in History which comprises of four semesters for the period of two years. Through a suitable structures and balanced syllabus incorporating various dimensions of historical studies, the programme emphasises on fostering sophisticated and complex perspectives on the past. The programme is well tailored to train the students on expanding knowledge base in historical studies with analytical and conceptual clarity.

5. SCHOOL OF HUMAN SCIENCE

The School of Human Sciences aims to study human beings as a social, cultural and biological species in the context of their experiences, activities, constructs and artefacts. The Human nature is not discipline bound and therefore the School emphasizes interdisciplinary approach to understand it. The school has a mission to pursue quality education and research for greater understanding of human nature and challenges faced by humanity. Disciplines like Anthropology, Psychology, Social work and other Social Sciences interactively may engage in research leading to knowledge system that serves the development of mankind. The objective of the school is to create advance scientific knowledge in various Human Sciences through research. The Department of Psychological Sciences is established under the School of Human Sciences.

5.1 Department of Psychological Sciences

With a vision to spread and create world class knowledge in the field of Psychology, the Department of Psychological Sciences recognizes the immense potential of Psychology and its utility in improving quality of life of individuals and society. The mission of the department is to educate and train psychologists who can serve the humanity. It is presently offering Master's and Ph.D. programmes in Psychology.

5.1.1 Ph.D in Psychology and Clinical Psychology – Department of Psychological Sciences is currently offering Ph.D. in Psychology and Clinical psychology.

6. SCHOOL OF LANGUAGES AND LITERATURE

Human civilization evolves through innumerable phases of language evolution. Knowledge too in its resurgent march unfailingly walks hand in hand with languages to streamline learning. Creative endeavours representing human behaviour mould languages to shape literature. As signifier of lingual heritage, literature showcases cultural diversities to promote learning through textual analyses and interpretations. The School of Languages and Literature is grounded in the above said ideas to facilitate studies in language and literature and promote communication and presentation skills. Interdisciplinary approach with cultural dimension in the pluralistic society forms the objective of the School. Presently, the School stands as an academic edifice with its Department of English and the Department of Hindi. The two Departments are open to incorporate various academic programmes in foreign and Indian languages, respectively, for study and research in the understanding and interpretation of cultures and the contextual correlations of language and literature worldwide.

6.1 Department of English

The Department of English which started functioning from the academic session 2012 - 13 aims to encourage the students to have inter-lingual approach for the proficient understanding of foreign languages and literatures for their skillful presentation of ideas in both oral and written modes. Language proficiency is held as a major tool for cognitive development in varied contexts. Techno-sound systems are installed in the smart classrooms to meet the contemporary requirements of the challenging language tasks. The Department focuses on the methodologies for teaching English as one of the foreign languages in both theory and practice. Extra-curricular and co-curricular activities are promoted for the enrichment of learners' sensibility. The Department offers both MA in English and PhD in English programmes, the syllabi of which are revised and updated annually. Our students have qualified NET, and secured jobs through campus selection.

6.1.1 Ph.D. in English

The Ph.D. programme in English offers to the students option to choose their topics from any of the following areas of research: Indian English Literature, Indian Literature in English Translation, Indian Poetics, British Literature, American Literature, New Literatures in English (Indian, Australian, Canadian, African, Caribbean), Comparative Literature, Film and Literature, Gender Studies, Cultural Studies, Postcolonial Studies, Literary Theory and Criticism, Translation Studies, Linguistics and ELT.

6.1.2 M.A. in English

The two-year (four semesters) M.A. English programme is designed to meet the requirements of language and literature studies. A broad spectrum of canonical and non-canonical texts is prescribed covering the major literary traditions spanning 16th century to 20th century and beyond. The emphasis is not on a descriptive approach based on conventional periodization of English literature but on critical approach to the literary movements across time and space. Both imaginative exploration and critical intelligence are promoted while dealing with texts of British, European, Indian, South Asian and American literatures, including their translated versions, and the New Literatures in English. Literary theories and criticism help widen the intellectual base and horizon of the students. Other than the core

courses, a number of elective courses, including MOOC/ SWAYAM courses, are there in the syllabus to give a wider choice to the students in consonance with the Choice Based Credit System (CBCS).

6.2 हिंदी विभाग

‘विश्वविद्यालय केन्द्रीय बिहार दक्षिण’ का ‘हिंदी विभाग’ भाषा और साहित्य के अध्ययन-अध्यापन के अध्यापन साथ विद्यार्थियों में उच्चस्तरीय शोध-अभिरुचि विकसित करने के लिए प्रतिबद्ध है। यह भाषा और साहित्य के माध्यम से भारतीय समाज की बहुआयामी सांस्कृतिक विविधताओं का अध्ययन करता है। यह साहित्य और समाज की उत्कृष्ट परंपराओं एवं विरासत को अक्षुण्ण रखते हुए, रचनाशीलता के विकास तथा ज्ञान के नये अनुशासनों की रचना एवं उनमें परस्पर संवाद की ओर उन्मुख है। इसके साथ, यह विभाग बदलते वैश्विक परिदृश्य में नयी तकनीक एवं संचार की दिशा में अग्रसर होते हुए, भारतीय भाषाओं को रोजगार पर कबनाने के लिए भी प्रयासरत है। वर्तमान में इस विभाग में ‘पी-एच.डी. हिन्दी’ और ‘स्नातकोत्तर हिन्दी’ (‘एम.ए. हिन्दी’) - दो कार्यक्रम संचालित हो रहे हैं।

‘विभाग’ की भावी योजनाओं में ‘भित्ति-पत्रिका’ व ‘शोध-पत्रिका’ (छमाही) का प्रकाशन, विभागीय ब्लॉग व फिल्म-अभिलेखागार का निर्माण, ‘मीडिया और रचनात्मक लेखन’ विषय में स्नातकोत्तर डिप्लोमा कोर्स शुरू करना, साहित्यकारों और भाषाविज्ञानियों की स्मृति में व्याख्यानमाला का आरम्भ, पार्श्ववर्ती क्षेत्रों में लोक-साहित्य का सर्वेक्षण, समाज के वंचित समूहों से सम्बद्ध अध्ययन के लिए ‘सावित्रीबाई फुले अध्ययन पीठ’ और ‘हिन्दी’ व ‘उर्दू’ में शोध-पीठ स्थापित करना आदि शामिल हैं।

6.2.1 ‘पी-एच.डी. हिन्दी’:- इस कार्यक्रम का उद्देश्य ‘हिन्दी’ भाषा, साहित्य और उसकी सैद्धान्तिकी से सम्बद्ध विविध क्षेत्रों और तत्सन्दर्भित दिनानुदिन उभर रहे नवीन क्षितिजों में स्तरीय व गुणवत्तापूर्ण अनुसन्धान को बढ़ावा देना है, जिसका स्वभाव अन्तरानुशासिक और रुझान सामाजिक हो और जिसे शोधार्थी शोध-निर्देशक/निर्देशिका के ‘अधीन’ होकर नहीं, बल्कि उसके ‘साथ’ रहकर सम्पादित कर सके। इस कार्यक्रम के अन्तर्गत, सर्वप्रथम शोधार्थियों को शोधक्षम बनाने के लिए, 1 सेमेस्टर (छह माह) के कोर्सवर्क की व्यवस्था है, जिसके द्वारा वे अछूते शोध-विषयों के अन्वेषण के विवेक और तदुपयोगी (परम्परागत व नवाचारी) शोध की विधियों, प्रविधियों व उपकरणों से समृद्ध होते हैं। इस पाठ्यक्रम का ढाँचा ऐसा रखा गया है, जिससे यह अपने केन्द्रीय लक्ष्य - शोध-प्रबन्ध लेखन - को पूर्ण करने के साथ-साथ, शोध-निर्देशक/निर्देशिका और शोधार्थी को विविधोन्मुखी मौलिक शोध-पत्रों की रचना हेतु भी उत्प्रेरित करे, ताकि दोनों का सम्मिलित अध्ययन-ज्ञान-सृजन की महत्तर परियोजना में रचनात्मक व सार्थक योगदान कर सके।

6.2.2 ‘स्नातकोत्तर हिन्दी’ (‘एम.ए. हिन्दी’) :-

द्विवर्षीय ‘स्नातकोत्तर हिन्दी कार्यक्रम’ हिन्दी भाषा और साहित्य में नवीन एवं मौलिक शोध में रुचि रखने वालों के साथ उनके लिए भी उपयोगी है, जो अनुवाद, सर्जनात्मक लेखन, अखबार, टेलीविजन, सिनेमा और नये मीडिया में अपनी प्रतिभा का विनियोग करना चाहते हैं। यह पाठ्यक्रम अध्यापक और विद्यार्थी के अंतःसंबंध, उनकी परस्पर-संदर्भित स्वायत्तता और अंतर-अनुशासनात्मकता के साथ विशेषज्ञता पर जोर देता है, इसलिए इस पाठ्यक्रम में अनिवार्य कोर्स के साथ वैकल्पिक विषयों के अध्ययन-अध्यापन का भी प्रावधान किया

गया है। इसका उद्देश्य मौखिक एवं लिखित भाषिक दक्षता और विश्लेषण-क्षमता विकसित करने के साथ-साथ, हिन्दी-साहित्य को हिन्दी-भारतीय साहित्य, विश्व-साहित्य तथा ज्ञान के विविध अनुशासनों के परिप्रेक्ष्य में समझना है। इस पाठ्यक्रम की सहायता से विद्यार्थियों में साहित्य की विविध रूप आस्वादन-क्षमता का ही नहीं, बल्कि ज्ञान व जीवन के विविध आयामों में प्रयोग करने योग्य आलोचनात्मक विवेक का भी विकास सम्भव है। पाठ्यक्रम के अंतर्गत स्नातकोत्तर स्तर पर ही विद्यार्थियों को शोध की दिशा में उन्मुख और प्रशिक्षित किया जाना भी लक्ष्यीभूत है।

‘स्नातकोत्तर हिन्दी कार्यक्रम’ के अध्यादेश के अनुसार, विद्यार्थी एक सेमेस्टर में न्यूनतम 20 और अधिकतम 32 क्रेडिट ले सकते हैं और इस प्रकार पूरे कार्यक्रम के दौरान उन्हें कुल 96 [आधारभूत वर्ग - 56, वैकल्पिक वर्ग - 40] क्रेडिट लेने होंगे। अग्रांकित 14 आधारभूत पत्र (56 क्रेडिट) उनके लिए हैं अनिवार्य वैकल्पिक वर्ग के 40 में से न्यूनतम 8 क्रेडिट उन्हें अन्य विभागों से लेने अनिवार्य हैं। इस वर्ग में वे अधिकतम 16 क्रेडिट अन्य विभागों से ले सकते हैं।

शिक्षण-विधि :- व्याख्यान, ट्यूटोरियल, समूह-चर्चा, कार्यशाला, परियोजना-कार्य, क्षेत्र-कार्य आदि के जरिये पाठ्यक्रम के उक्त उद्देश्यों की उपलब्धि इस पाठ्यक्रम में लक्ष्यीभूत रखा गया है। इस प्रक्रिया में हिन्दी भाषा और साहित्य के प्राध्यापकों/प्राध्यापिकाओं के अलावा, आवश्यकतानुसार अन्य अनुशासनों के विशेषज्ञों से सम्पर्क या संवाद भी शामिल होंगे।

7. SCHOOL OF MEDIA, ARTS & AESTHETICS

Human life is nourished by the elements of arts and aesthetics and the media is the center of human communication. In this respect Media, Arts and Aesthetics are the integral segments of human life. The academic study of these aspects of life is significant so far as the total development of human life is concerned. To fulfill the academic needs, behavioral patterns and cultivation of futuristic ideas and pattern of life are the mission of teaching, training and research in the school of Media, Arts and Aesthetics of CUSB.

The core idea behind School of Media, Arts and Aesthetics in CUSB is to develop such master level programs, which combine various media, culture and arts forms together. India has a long history of arts and aesthetics, it is imperative to develop curricula which give holistic and practical input to the students. Dance, music, theater, painting, films and media are integral part of any society and Indian culture has a long and very robust heritage. The School of Media, Arts and Aesthetics wishes to be interdisciplinary in nature which enlarges students' umbrella of knowledge and understanding. Besides this the School aims to give hands-on practical knowledge of various forms of media, arts and aesthetics with rigorous industrial training modules. At present the School provides M.A. in Journalism and Mass Communication under Department of Mass Communication and Media. The program was established in 2011 with an objective to provide extensive media training. There is a dearth of good educated media professionals and academicians; the program has been designed to provide intended human resource to both media industry and academia. The specialization papers in the second year offer in-depth knowledge whereas the first year papers provide stout foundation. The Department of Mass Communication and Media believes in fabricating effective communicator in field of print, electronic, online, films, advertising and public relations etc.

7.1 Department of Mass Communication and Media

Department of Mass Communication and Media (DMCM) has been established with an aim to promote quality media studies in higher education. It intends to produce effective communicators in varied fields of media. During the last couple of decades the media in the country has grown by leaps and bounds and is now rated amongst the four biggest media industries of the world. Remarkable improvements have been observed in the areas of content and their presentation, production techniques, technical quality, transmission of programmes and media consumer feedback and research. The number of broadcast channels, internet/multimedia users and newspaper circulation has increased exponentially over the years, thereby, increasing the demand for well-educated and trained media professionals in the conventional as well as the non-conventional fields of media like online, print, broadcast journalism, fiction and non-fiction programmes for radio and television, media research and other allied disciplines.

8. SCHOOL OF MANAGEMENT

The School of Management is presently running the Department of Commerce & Business Studies formally set up in 2018. It has imbibed the CUSB tradition of exploring new frontiers of knowledge and innovation in academics. The Vision of the School is to emerge as a Centre of Excellence in interdisciplinary approaches to studies and research involving Commerce and Management. Following the University Motto “collective reasoning, emphasis is being given on application of theories in real life situations to enhance business skills and employability of students through various other measures like personality development, project work, mock interviews and role plays etc.

8.1 Department of Commerce & Business Studies

In the present age of Economic and Information Technology reforms, the world has become a small village and accordingly the policies all over the world including India have undergone metamorphosis. Now, the customer is not only king or queen but has become God for the business houses. With the changing scenario, there is pressing need for providing professional education and training to commerce students in such a way that they are able to handle the problems with ease and comfort and thus succeed in delivering the desired results effectively and efficiently. It is through commerce education and training that a pool of competent human resources can be churned out who are able to make innovative plans, execute these plans with creativity and bring remarkable changes in their performance. It is the magic of professional skills which is capable of converting a human being into a super human being. It is through motivation that nothing appears impossible and even the toughest task is achieved tactfully.

The Department of Commerce & Business Studies offers two years (four semester) Master Degree Programme in Commerce with specialization in Accounting and Finance, Marketing, Human Resource Management and Banking & Insurance. The M. Com Degree Programme has been designed, updated and imparted to develop conceptual and analytical skills among students in line with the industry requirements. The course structure has a judicious mix of theoretical and practical reasoning to meet the industry requirements which gives a comprehensive insight of commerce along with an overview of other management areas. The Department has experienced faculty and has plan to invite experts from industry as well as academia from reputed institutions on need basis. The course is enriched to inculcate research culture and to get an exposure to the working of corporate environment.

A Placement Cell is also in operation to explore opportunities for students' placements with various industries. The students under the supervision of the faculty members also undertake social outreach activities such as participation in social and co-curricular activities in the campus and outside the campus (in the villages adopted by CUSB). The students of the Department are also being encouraged to organise commerce fests, quiz competitions, seminars and workshops etc. The Department also facilitates ethical entrepreneurial activities such as the "HONESTY SHOP - A Shop Without A Shopkeeper" being one such accolade out of the many in the pipeline.

8.1.1 Ph.D. in Commerce

The Department of Commerce and Business Studies is currently offering Ph.D. with diverse field of specialization including Finance, Accounting, Marketing, Human Resource Management, International Business and other allied specialization. The objective of this programme is to equip students with necessary skills to identify and carry out advance study and research on complex issues of commerce and business studies. This programme aims to enable the students to methodologically identify the relevant contemporary issues in business and industry and equip them to provide rigorous solution through empirical study and investigation. The research output will benefit the academicians, industry practitioner and policy maker. The compulsory courses of this programme help to stimulate the students to undertake comprehensive and rigorous research adding value to the existing body of knowledge.

8.1.2 M.Com. Programme

The M.Com. Degree Programme has a distinct objective to equip the students with knowledge, skills and attitude to become more suitable for the present as well as emerging job markets. The design of the syllabus is student-centred where there is flexibility for the students to have a greater choice of courses appropriate to their interests, needs and sustainability. The courses are offered with Choice Based Credit System (CBCS) thus facilitating the students to have 100 Credits spread over 4 semesters for mastering the subject for the award of Master Degree in Commerce. The students can opt for elective courses of his/her choice and based on his/her aptitude from four elective groups of courses. Another important aspect of the M. Com Degree Programme is that it gives students an opportunity to study and opt for the inter-disciplinary courses other than the Commerce domain with minimum of 08 Credits which can go up to 16 Credits in the form of Elective courses in order to leverage the competitive advantage of the M. Com. Students.

Employment Opportunities

Master of Commerce is one of the reputed post-graduate Degree Programme available in India. M.Com. degree serves as a basis for further higher studies and research leading to the award of M.Phil. /Ph.D. degree. After successfully completing M. Com. Degree programme, a student can also take up teaching assignments by qualifying the UGC-NET/JRF in Commerce. This course is equally suitable for those candidates who are willing to pursue Chartered Accountancy (ICAI), Cost & Works Accountant (ICWA), Cost Management Accountant (ICMAI), Company Secretary (ICSI) or Chartered Financial Analysts (CFA) programme.

9. SCHOOL OF EDUCATION

The School of Education honoured by Ministry of Human Resource Development, Govt. of India under the Pandit Madan Mohan Malviya National Mission on Teachers and Teaching Scheme is a centre for quality

assurance in Learning, Pedagogy and Assessment, and was established in 2013-14 by starting Four-Year Integrated programmes in the two streams, viz. B.A.B.Ed. and B.Sc.B.Ed.. Further, to cater the demand of quality teacher educators and researchers in the field of education, the school has started Ph.D. (Education) programmes from 2016-17 and M.Ed. programme from the session 2017-18.

The courses of these programmes are updated as per the need of the hour and the latest norms. To provide quality academic exposure, the school, along with exclusive repository of print and digital books and journals, has an impressive Educational Resource Centre with a collection of educational policies documents, psychological tests and experimental equipment's, digital learning resources, teaching-aids etc. For the holistic development of its students, a number of workshops, seminars etc. are organized. In addition to these the school is running two centres i. e. Centre for Learning and Pedagogic Studies and Centre for Assessment and Evaluation as well as National Resource Centre for Education under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching Scheme, Ministry of Human Resource Development, Govt. of India. The school is regularly conducting a number of workshops and training programmes including Academic Leadership Programmes, Induction Training Programme, Online Refreshers Course, etc. under the two centres i. e. Centre for Learning and Pedagogic Studies and Centre for Assessment and Evaluation as well as National Resource Centre for Education under Pandit Madan Mohan Malviya National Mission on Teachers and Teaching Scheme, Ministry of Human Resource Development, Govt. of India.

9.1 Department of Teacher Education:

The School under it's one department i.e. Department of Teacher Education, is presently offering following programmes:

9.1.1 Ph.D. in Education: School of Education is currently offering Ph.D. in Education.

9.1.2 M.Ed.

M.Ed. is a two-year (04 Semesters) professional programme for advanced study in the field of Teacher Education which aims at preparing teacher educators and other educational professionals including educational policy analysts, planners, experts in educational assessment etc. The programme offers a comprehensive overview of 'Education' embedded in the foundational disciplines of Philosophy, Sociology and Psychology; and, detailed study of chosen specialized areas of interest. It also includes advance components of pedagogy in a subject of parent discipline of prospective teacher educator. Since M.Ed. is also a degree leading to research in education, the course has a strong research component which includes dissertation writing.

9.1.3 Four-Year Integrated B.A.B.Ed./B.Sc.B.Ed

Four-year integrated programmes aim to equip the students with the contextual competency by providing basic knowledge in core subjects and a wide range of real life experience to transform them into quality subject specific teachers in an integrated manner.

9.1.3.1 Four-Year Integrated B.A.B.Ed.

The four-year (eight semesters) B.A.B.Ed. programme is an integrated programme, which is designed to develop teaching competence among students in the subjects like Social Sciences, Hindi and English along with language proficiency and ICT skills.

9.1.3.2 Four-Year Integrated B.Sc.B.Ed.

The four-year (eight semesters) B.Sc.B.Ed. Programme is an integrated programme, which is designed to develop teaching competence among students in the subjects like Mathematics, Science and Biology along with language proficiency and ICT skills.

1. SCHOOL OF LAW AND GOVERNANCE

School of Law and Governance has started working from the academic Year 2013-14. It offers three programmes Integrated B.A.LL.B. (Hons.), LL. M. One Year and Ph. D. in Law. Each programme has been designed in compliance with BCI and UGC norms. Its syllabus is structured with an objective to meet the global demand of modern legal education. In compliance to Legal Education Rules 2008 the School has established Legal Aid Clinic to sub-serve the interest of vulnerable classes and to inculcate among the students the sense of social responsibility. It also provides training of Moot Court, Model United Nations and Parliamentary Debating Skills to all the students. The school is striving towards imparting quality legal education to meet the professional demand as well as to promote personal development. The mission of the school is to equip the students with critical thinking, analytical and applied skills and also to make members for bar and bench. It is mandatory for every student to undergo two month summer internship every year. The school intends to transform its students as responsible and capable citizen of this country. It has structured its course content taking into consideration the changing needs of the society. Students are trained with an objective to meet the standard global parameters.

Central University of South Bihar (CUSB) has adequate infrastructural facilities to provide the perfect ambience for interdisciplinary studies in law, in its true sense. School of law and governance, CUSB, is not only imbued with multidisciplinary approach to the legal studies and research but it is making genuine efforts to disseminate such approach to both the privileged and underprivileged learners and researchers of law and jurisprudence. The school is striving towards imparting quality legal education to the students including the students who are from poor, oppressed, downtrodden and backward communities of the society. In academic session 2018-19; students of the School have brought many laurels, such as; 14 PG students qualified UGC NET Examination, 12 students selected as Civil Judge in Bihar Judiciary and our students are the regular participant in various National and International Moot Court Competitions.

The School of Law and Governance is continuously organizing different programmes in the school for the overall development of the students. In the session 2018-19, Constitution Day Celebration, 3rd Intra-Moot Court Competition, 2019, Debating Premier League *etc.* were organised with the participation of students and witnessed a grand success.

EXTENSION ACTIVITIES AND OUTREACH PROGRAMME

Legal Aid Clinic

The importance of Legal Aid and Awareness Campaigns as a mechanism for social progress is something that has been repeatedly stressed upon by the Government of India. In the backdrop of poverty and inequality, legal aid is an effective way towards attainment of the ideals of 'Social, Economic and Political' Justice that are enshrined in our Constitution under the Directive Principles of State Policy. Imparting legal awareness is the first step towards ensuring prompt and effective access to justice. Keeping this in mind, the Bar Council of India mandated all law colleges and universities in India to establish and run legal aid centres or clinics. The idea was to fulfil certain standards of legal education, but more importantly, it was also aimed at engaging the students in serving their community by promoting legal awareness through these legal aid clinics and programmes. The

entire purpose of setting up nationwide collegiate clinics is to acclimatize several thousand law students of the nation to the problems faced by the masses ignorant about their rights and remedies under the law. Under the School of Law and Governance, CUSB Legal Aid Clinic is one successful beacon. The clinic functions by organising legal literacy camps, seminars, legal counselling, public speaking, poster making, street plays and liaising with Legal Services Authorities and through various other communicable mediums.

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10.1.1 One-Year LL.M. Degree Programme

One Year LL. M Degree Programme intends to enable the existing legal education system to compete with the systems prevailing in developed countries like USA and UK. The students will get an opportunity to pursue this pioneering post-graduation programme from an Indian University of excellence. The School of Law and Governance, Central University of South Bihar structured its One Year LL. M. Degree Programme as per UGC One Year LL.M. Guidelines 2013 under the auspices of Centre for Post-Graduate Legal Studies (CPGLS). The vision of the University is to impart excellence in legal education and become a renowned center of higher education and academic research Centre in law. This program provides option of four elective groups; Criminal Law, Corporate and Commercial Law, Intellectual Property Rights, and Human Rights. Students have to elect one group and they will study six optional courses of that group.

10.1.2 Five Year Integrated B.A.LL.B. (Hons.)

The five-year (10 semesters) Integrated BA.LL.B (Hons.) programme is designed to impart quality legal education to the students with subjects like Political Science, Sociology, Economics, Philosophy, Psychology, Legal History along with English. It consists of total 56 Courses in ten semesters. These include 8 Honors Law Courses, 24 General Law Courses, 6 Elective Courses, 4 Clinical Law Courses, 2 English Language Courses, and 12 Social Science Courses.

ADMISSION OF FOREIGN NATIONALS IN VARIOUS PROGRAMMES

The Central University of South Bihar (CUSB) invites applications from Foreign Nationals under different categories for the various programmes as per the university prospectus and guidelines for the respective academic session. Application forms together with prospectus can be downloaded from the university website (www.cusb.ac.in). The guidelines of application process are given below:

Definition

For the purposes of admission to the CUSB, the term “Foreign National” implies any candidate holding a passport of a foreign country. This category would also include any Person of Indian Origin (PIO) or, Overseas Citizen of India (OCI) card holder who has a foreign country’s passport. The NRIs with Indian Passport are Indian Nationals and, therefore, they cannot be considered as Foreign Nationals.