

NSHM Knowledge Campus, Kolkata

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NSHM Knowledge Campus, Durgapur

Established by NSHM Academy Arrah, Shibtala via Muchipara, Durgapur 713 212 | Ph: 0343 2533813/14





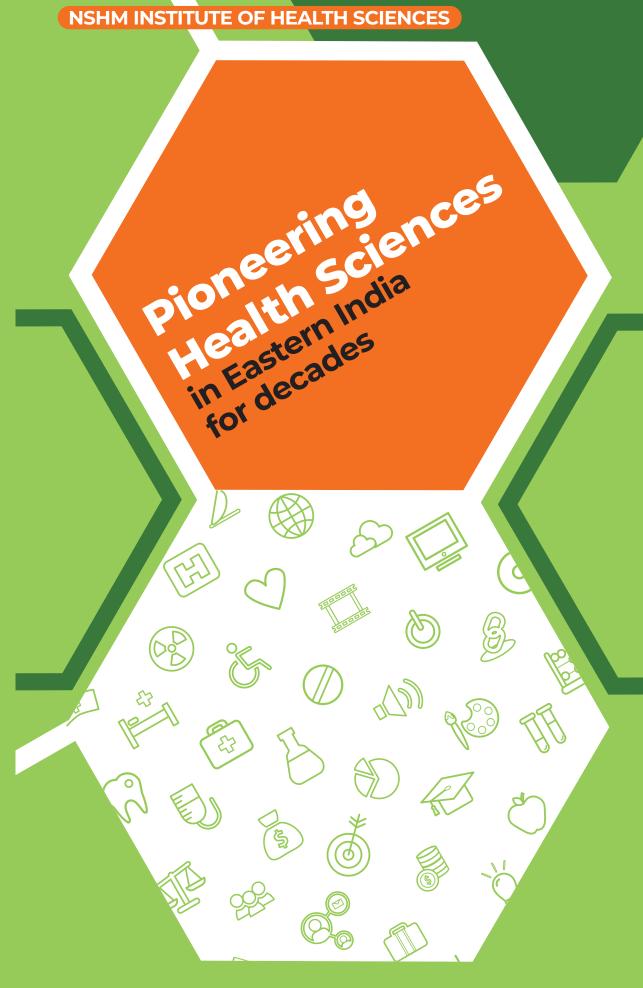




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Disclaimer: This information booklet of NSHM Knowledge Campus was published in February 2023, and the information given was correct at that time. It is intended primarily for those considering admission to the college in the year 2023. We reserve the right to modify any statement if necessary, to make variations to this content or methods of delivery of programmes of study, to discontinue programmes or to merge or combine programmes. If such action is reasonably considered by the college, every resort will be made not to do so, notice of any changes will be given and the college will use all reasonable endeavours to provide a suitable alternative. Information about specific entrance requirements is intended as a guide only. For campus specific details, please visit the respective NSHM Knowledge Campus at Kolkata and Durgapur. All disputes are to be settled within the jurisdiction of Kolkata for all NSHM Knowledge Campuses.







NSHM Knowledge Campus

NSHM Knowledge Campus, with a legacy of over 25+ years in providing quality education, with campuses in Kolkata and Durgapur. Being one of Eastern India's pioneering institutions, NSHM offers multidisciplinary UG & PG programmes under Business & Management, Hotel & Tourism Management, Health Sciences, Media, Design, Computing & Analytics, Engineering & Technology, and Nursing.

New Age Programmes

We have always wondered about the future and experimented with offering full-time degree programmes that are futuristic to meet India's evolving needs as well as being globally accepted. New age degree programmes in AI & Machine Learning, Digital Health, Cyber Security, Yoga, Data Science, Fashion Design & Culinary Science have been added over the last 5 years to provide interested students an opportunity to learn and explore exciting career options in these emerging fields.

Youth Connect Initiatives

Every year we have driven initiatives to host eminent personalities from diverse fields to interact, empower and share their experiences with our students. Inspire the Champion in You, NSHM's flagship annual event, where diverse speakers ranging from Dr. Shashi Tharoor, Member of Parliament, to legendary footballer Pele have visited our campuses and interacted with our students. Other events like Vectra, Y-Comm, Login are also held annually to create platforms for students to showcase their talents.





Our Legacy

Years of Excellence in Education

Schools

Over

Thousand Alumni working in India and abroad

Campuses **Kolkata & Durgapur**

Affiliations, Accreditations & Awards



Maulana Abul Kalam Azad University of Technology, West Bengal (MAKAUT)

• NSHM's courses are affiliated to & degrees are awarded by MAKAUT



All India Council for Technical Education (AICTE)

- AICTE is responsible for proper planning and coordinated development of the technical education and management education system in India
- NSHM's course contents and curriculum design, teaching methodologies, student intake norms, etc., are approved by AICTE



West Bengal University of Health Sciences (WBUHS)

• The nursing courses are affiliated to & degrees are awarded by WBUHS



Pharmacy Council of India (PCI)

• NSHM's UG and PG Pharmacy courses are accredited by the Pharmacy Council of India



West Bengal Nursing Council (WBNC)

 NSHM's GNM Diploma programme is approved by the West Bengal Nursing Council



National Assessment and Accreditation Council (NAAC)

• NSHM Knowledge Campus, Kolkata & Durgapur are accredited by NAAC, as applicable



National Board of Accreditation (NBA)

• NSHM's UG Pharmacy programmes are accredited by NBA



Ministry of Ayush, a ministry of the Government of India

• Responsible for developing education, research and propagation of traditional medicine systems in India



Authorised Training Centre, Yoga Certification Board, Ministry of AYUSH, Government of India

Programmes Offered

NSHM Institute of Health Sciences

Bachelor of Pharmacy

Bachelor of Optometry

B.Sc. - Psychology

B.Sc. - Medical Lab Technology

B.Sc. - Medical Instrumentation & Critical Care Technology

B.Sc. - Medical Imaging Technology

B.Sc. - Yoga

B.Sc. - Digital Health & Telemedicine

B.Sc. - Dietetics & Nutrition

Master of Optometry*

Master of Pharmacy - Pharmacology

Master of Pharmacy - Pharmaceutics

Master of Public Health*

M.Sc. - Clinical Psychology

M.Sc. - Dietetics & Nutrition

M.Sc. - Yoga*

M.Sc. - Medical Lab Technology

M.Sc. - Medical Imaging Technology

M.Sc.- Environmental Science

NSHM Business School

Bachelor of Business Administration

BBA - Hospital Management

BBA - Global Business

BBA - Sports Management

BBA - Banking & Finance

BBA - Supply Chain Management

BBA - Accountancy, Taxation & Auditing

MBA+ Harvard Business School Online

Master of Business Administration (MBA)

Master of Hospital Administration

NSHM Design School

B.Sc. - Fashion Design & Management

B.Sc. - Interior Designing

B.Sc. - Multimedia, Animation & Graphics

B.Sc. - VFX Film Making

M.Sc. - Fashion Management

M.Sc. - Animation & Graphic Design

NSHM Institute of Computing & Analytics

B.Sc. - Data Science

B.Sc. - Cyber Security

Bachelor of Computer Applications (BCA)

Master of Computer Application** (MCA)

M.Sc. - Data Science & Analytics*

M.Sc. - Information & Cyber Security*

NSHM Institute of Hotel & Tourism Management

B.Sc. - Culinary Science

B.Sc. - Hospitality & Hotel Administration

B.Sc. - Hospitality & Hotel Administration

(Europe Internship)

BBA - Travel & Tourism Management

Bachelor of Hotel Management & Catering Technology

M.Sc. - Hospitality Management*

Master of Tourism & Travel Management*

NSHM Institute of Engineering & Technology

B.Tech. - Civil Engineering

B.Tech. - Electrical Engineering

B.Tech. - Mechanical Engineering

B.Tech. - Electronics & Communication

Engineering

B.Tech. - Computer Science Engineering

B.Tech. - Computer Science Engineering

(Data Science)

B.Tech. - Computer Science Engineering

(Artificial Intelligence & Machine Learning)

NSHM Media School

B.Sc. - Film & Television

B.Sc. - Media Science

M.Sc. - Film & Television

M.Sc. - Media Science

Nursing

B.Sc. - Nursing**

Diploma in General Nursing and

Midwifery (GNM)

^{*}Hybrid Learning (Online + Offline) Blended Classes Option offered at Kolkata Campus

^{**}Approval awaited

Academic Partners































Academic Partners

























CBEL

Choice Based Extended Learning

CBEL is Choice Based Extended Learning (CBEL) which is an exciting design to bring NSHM's learners across all programmes and levels (UG-to-PG) in a cohort of a CBEL programme, as per their choice. NSHM is one of the top education centres in India that offers 50+ CBEL programmes of 20-40 hours duration under 9 baskets.

The baskets are replete with curated multidisciplinary programmes of useful and productive learning beyond the programmes of study of a learner. Moreover, CBEL will be all about active learning and is intended to extend the joy of learning through engaging activities. The maximum a learner can choose per semester is 4 programmes and the minimum is 1 programme.



CBEL

Choice Based Extended Learning

Business Management

Courses: Brand Management | Sustainable and Ethical Studies | Integrated Marketing Communication Luxury Brand Management | Market ability of Indian Craftsmanship | Social Entrepreneurship | Managing Work Force Diversity | Logistics and International Supply Chain Management | Lateral Thinking using De Bono's Six Thinking Hats | Essentials of Entrepreneurship | Business Plan Formulation & Pitching

Communication & Creative Studies

Courses: Cinematography | Set Design | History of Art | Aesthetics | Sculpting | Event Management
Press & Public Relations | Product Photography | Design Thinking | Designing a Powerful Presentation
Effective Communication through Theatre | Music, Arts, and Acting Appreciation | Monetising Social Media

Health & Wellness Management

Courses: Economic Evaluation of Various Diseases | Legal Issues in Health Care | Health Insurance Management | Ophthalmic Product Development | Self-practitioner Optometrist | Metrics for Public Health Clinical Data Management | Health Data Analytics | Pharmacokinetics with Calculations Pharmaceutical Product Development | Mental Wellness | Yoga for Resilient and Resonant Personality Development | Yoga for Health Management | Wellness through Sports and Fitness Management

IT & Analytics

Courses: Research and Data Analysis | Working with Data | Field-survey Project-based Qualitative Analysis of Data | Data Privacy in the Digital Business | Data Analytics with Excel | Industry 4.0

Language & Linguistic Studies

Courses: French | German | Sanskrit for Beginners | Phonetics, Linguistics, and Literature Appreciation

Professionalism & Skill Enhancement

Courses: Image Development | Professional Attitude for Customer Service | Scientific Writing | Designing Impactful Presence | Emotional Intelligence

Socio-cultural Studies

Courses: Universal Human Values | Indian Knowledge System: Introduction to Manuscriptology and Palaeography

Entrepreneurship

Courses: Organic Product Making - Farm and Non-farm

Hospitality Management

Courses: International Travel Formalities | Tourism Destination Management Customer Relationship Management in Tourism

Experiential Learning

The Centres of Excellence at NSHM Knowledge Campus are committed to the holistic development of its students by grooming talented professionals through unique programmes and initiatives.



NSHM Centre of Creative & Performing Arts



CENTRE FOR CREATIVE& PERFORMING ARTS

Aangan is a creative platform where NSHMites learn and showcase their creativity. Aangan features both traditional and contemporary training programmes. A fresh basket of training programmes is offered in every semester by the trainers from various creative disciplines. Aangan works closely with the student community and clubs of NSHM.



CENTRE FOR INNOVATION & INCUBATION

Determined to provide team-designed, team-delivered, experience-based and community-based applied learning, NSHM has endeavoured to create this unique platform and has christened it as TAG. This centre inspires, motivates and cultivates the innate human curiosity to bring out the genius in our students, taking them ahead on the path of creation, innovation and entrepreneurship.







CENTRE FOR SPORTS & WELLNESS

Uday aims at contributing to the personal, physical & psychological growth and well-being of students, creating a sporting environment at NSHM.

With its state-of-the-art fitness training & gym facilities, Uday organises regular fitness training programmes and also organises various sports activities and events round-the-year. The centre is also committed to nurturing young sporting talents through regular training camps and practices.



NSHM Centre for Language & Communication

CENTRE FOR LANGUAGE AND COMMUNICATION

NSHM CLC ensures the development of people skills among its students so that they are able to connect with the industry and its people, thereby emerging as successful professionals. Apart from conducting regular English and business communication classes, the centre conducts regular evening classes on the English language, foreign languages & employability skills.







CENTRE FOR SOCIAL ACTION

Outreach is involved in contributing to social causes by mobilising student volunteers to participate in various outreach activities, often in collaboration with charitable organisations and NGOs. It is a platform through which students and individuals can connect with the society and its people.



NSHM Institute of Health Sciences provides education through experiential learning that prepares students for tomorrow. Besides classroom teaching, students are given clinical and community exposure so that they become active change-makers and solution providers for the healthcare sector. The industry-aligned curriculum taught by faculty who are specialists in their respective fields along with active collaborations with industry leaders enables students to develop professional competencies required to address the world's health challenges.

Departments

- Pharmacy
- Optometry
- Psychology
- Dietetics & Nutrition
- Public Health
- Yoga Sciences
- Medical Technology





Pharmacy

Bachelor of Pharmacy

Master of Pharmacy - Pharmacology

Master of Pharmacy - Pharmaceutics



Bachelor of Pharmacy

First Semester

Academic Curriculum

Human Anatomy and Physiology I

Pharmaceutical Analysis I

Pharmaceutics I

Pharmaceutical Inorganic Chemistry

Remedial Biology

Remedial Mathematics

NSHM Value Added Curriculum

Masterclass on career avenues in

Pharmacy profession

Paramedic (Life saving skills) training

CLC-Adaptability & Communication

Second Semester

Academic Curriculum

Human Anatomy and Physiology II

Pharmaceutical Organic Chemistry I

Biochemistry

Pathophysiology

Environmental sciences

NSHM Value Added Curriculum

Masterclass on Pathological and

Biochemical investigations

Workshop on Universal Human Values

CLC-Team Building and Conflct resolution

Third Semester

Academic Curriculum

Pharmaceutical Organic Chemistry II

Physical Pharmaceutics I

Pharmaceutical Microbiology

Pharmaceutical Engineering

Computer Applications In Pharmacy

NSHM Value Added Curriculum

Masterclass on MS Office

Masterclass on Sterile Manufacturing

CLC-German Language Course

Fourth Semester

Academic Curriculum

Pharmaceutical Organic Chemistry III

Medicinal Chemistry I

Physical Pharmaceutics II

Pharmacology I

Pharmacognosy and Phytochemistry I

Communication skills

NSHM Value Added Curriculum

Masterclass on Green Chemistry

Industrial tour (Phase I)

CLC-Problem solving & Crtical Thinking



Fifth Semester

Academic Curriculum

Medicinal Chemistry II

Industrial Pharmacy I

Pharmacology II

Pharmacognosy and Phytochemistry II

Pharmaceutical Jurisprudence

NSHM Value Added Curriculum

Masterclass on Herbal formulation

& Nutraceuticals

Industrial tour (Phase II)

CLC-Negotiation & Interpersonal Skills

Sixth Semester

Academic Curriculum

Medicinal Chemistry III

Pharmacology III

Herbal Drug Technology

Biopharmaceutics and Pharmacokinetics

Pharmaceutical Biotechnology

Quality Assurance

NSHM Value Added Curriculum

Masterclass on Computer Aided

Drug Design

Masterclass on Six Sigma

Workshop on Analytical Instrument

Handling

CLC-Employability Skills"

Seventh Semester

Academic Curriculum

Instrumental Methods of Analysis

Industrial Pharmacy II

Pharmacy Practice

Novel Drug Delivery System

Practice School

NSHM Value Added Curriculum

Pre-placement Seminar

Seminar on Opportunities in Higher Studies

AlumniScape - An Alumni Connect Initiative

CLC-Expectation Management &

Impact Communication-I

Eighth Semester

Academic Curriculum

Biostatistics and Research Methodology

Social and Preventive Pharmacy

Pharma Marketing Management(Elective)*

Computer Aided Drug Design(Elective)*

Advanced Instrumentation Techniques(Elective)*

Life Science Skill Development *

Project Work

NSHM Value Added Curriculum

Seminar on IPR & Regulatory Affairs

Workshop on Sophisticated Analytical

Instrument handling

CLC-Expectation Management &

Impact Communication-II



Master of Pharmacy - Pharmacology

First Semester

Academic Curriculum

Modern Pharmaceutical Analytical Techniques

Advanced Pharmacology-I

Pharmacological and Toxicological

Screening Methods-I

Cellular and Molecular Pharmacology

Pharmacology Practical I

Seminar/Assignment

NSHM Value Added Curriculum

Masterclass on Pharamcovigilance &

Clinical Data Management

Workshop on Sophisticated Instrument

handling (in-house)

CLC - Foreign Language

Second Semester

Academic Curriculum

Advanced Pharmacology II

Pharmacological and Toxicological

Screening Methods-II

Principles of Drug Discovery

Experimental Pharmacology practical-II

Pharmacology Practical II

Seminar/Assignment

NSHM Value Added Curriculum

Week long workshop on Experimental animal handling & Molecular Biological

techniques (External)

CLC - Foreign Language

Third Semester

Academic Curriculum

Discussion / Presentation (Proposal)

Research Work

Research Methodology and Biostatistics

Journal club

NSHM Value Added Curriculum

Masterclass on Data Analysis & Al

Masterclass on MS Office

CLC - Foreign Language

Fourth Semester

Academic Curriculum

Discussion/Final Presentation

Research Work

Journal Club

Co-curricular Activities

NSHM Value Added Curriculum

CLC - Team Building & Conflict resolution

CLC - Employability Skills



Master of Pharmacy - Pharmaceutics

First Semester

Academic Curriculum

Modern Pharmaceutical Analytical Techniques

Drug Delivery System

Modern Pharmaceutics

Regulatory Affair

Pharmaceutics Practical I

Seminar/Assignment

NSHM Value Added Curriculum

Masterclass on AI & Robotic Techniques in Pharmaceutical Industry

Workshop on Sophisticated Instrument

handling (in-house)

CLC - Foreign Language

Second Semester

Academic Curriculum

Molecular Pharmaceutics

(Nano Tech and Targeted DDS)

Advanced Biopharmaceutics & Pharmacokinetics

Computer Aided Drug Delivery System

Cosmetic and Cosmeceuticals

Pharmaceutics Practical II

Seminar/Assignment

NSHM Value Added Curriculum

Week long workshop on Sophisticated Instrument Handling (External)

CLC - Foreign Language

Third Semester

Academic Curriculum

Discussion / Presentation (Proposal)

Research Work

Research Methodology and Biostatistics

Journal club

NSHM Value Added Curriculum

Masterclass on Data Analysis & Al

Masterclass on MS Office

CLC - Foreign Language"

Fourth Semester

Academic Curriculum

Discussion/Final Presentation

Research Work

Journal Club

Co-curricular Activities

NSHM Value Added Curriculum

CLC - Team Building & Conflict resolution

CLC - Employability Skills"

Career Directions

The pharmacy programme offer highly rewarding careers in both India and abroad. The Indian pharmaceutical industry is one of the world's largest, ranking 3rd in terms of volume and 13th in terms of value. By 2023, the domestic pharmacy market is expected to grow to \$55 billion. Advanced knowledge and training in different branches of pharmaceutical sciences offer a wide range of career options to the students, some of which are mentioned:

| Production Chemist | Manufacturing Chemist | Production Superior |
|-----------------------------------|------------------------------|--------------------------------|
| Production Officer | Production Executive | Production Manager |
| Quality Control Chemist | Quality Assurance Chemist | Product Development Chemist |
| Research & Development Chemist | Pharmacovigilance | Associate Professor |
| Professor | Medical Representative | Product Manager |
| Production Chemist | Manufacturing Chemist | Bioequivalence Studies |
| Govt. Analyst | Drugs Inspector | Data Analyst |
| Senior D.I. | Deputy Drug Controller | Asst. Drug Controller |
| Drug Controller of India | Regulatory Manager | Toxicological Studies |

Success Stories



Sumana Dey Chowdhury
Ph.D. Aspirant
Nova South-eastern
University College of
Pharmacy USA



Torsha Ghosh
Ph.D. Aspirant
School of Chemical
Engineering Sungkyunkwan
University South Korea



Anwesha Paul MBA Student University of East London United Kingdom



Tanmoy BanerjeeAssociate Pharmacovigilance
Wipro



Poulami Chakraborty Junior QC Executive Cipla Ltd.



Nasim Mondal Executive Quality Control MacLeods Pharmaceuticals Ltd.



Arkaprova BasakTrainee Officer
Alkem Laboratories Pvt. Ltd



Ranajit Mandal BE Trainee Intas Pharmaceuticals Ltd.



Promita Chakraborty Trainee Junior Data Analyst Cognizant Solutions Ltd.



Nairrita Majumder Ph.D. Aspirant West Virginia University USA



Vision Science

Bachelor of Optometry

Master of Optometry

Bachelor of Optometry

First Semester

Academic Curriculum

Geometrical Optics

General Physiology

General Anatomy

Professional Communication in English

NSHM Value Added Curriculum

Communication Skills I (Basic)

Workshop on Basic life support I

Seminar on Adaptive Optics

Seminar on relationship between

brain and eye

Second Semester

Academic Curriculum

Physical Optics (Optics II)

Anatomy (Ocular)

Environment & Ecology

Computer Fundamentals

NSHM Value Added Curriculum

Training on Advance Excel and Powerpoint Learning

Seminar of Nutritional effect on eye

Workshop on Basic life support II

Seminar on Biomedical waste management

in eye hospital

Third Semester

Academic Curriculum

Visual Optics

Binocular Vision & Ocular Motility

Medical pathology & Microbiology

(General & Ocular)

Pharmacology

Ophthalmic Instrumentation & Procedure -I

NSHM Value Added Curriculum

Workshop on Basic life support III

Workshop on Binocular Vision

Communication Skills II (Clinical)

Seminar on Histopathological evaluation

of infected eye

Fourth Semester

Academic Curriculum

Introduction to Vision Science

Ocular Disease I (Anterior Segment Disease)

Clinical Refraction I

Ophthalmic Lens & Dispensing Optics

Ophthalmic Instrumentation & Procedure -II

NSHM Value Added Curriculum

Session on examining Anterior

Segment Disease

Workshop on Basic life support training IV

Lens manufacturing lab visit

Workshop on dispensing of ophthalmic

(spectacle) lens



Fifth Semester

Academic Curriculum

Low Vision Aids & Visual Rehabilitation Contact Lens

Clinical Refraction II

Ocular Disease II (Posterior & Neuro-eye Disease)
Public Health & Community Optometry

NSHM Value Added Curriculum

Visit for Low Vision rehabilitation in Blind School

Workshop on Basic life support training V Seminar on scope of entrepreneurship in Optometry

Seminar on Ocular surface evaluation

Sixth Semester

Academic Curriculum

Systemic Condition & the eye Fundamentals of Clinical Research methods Specialized Contact Lens Professional Practice Management Applied Optometry & Orthoptics

NSHM Value Added Curriculum

Workshop on vision therapy Bausch and Lomb Mastermind Workshop on Basic life support training VI Workshop on Research methodology and bio statistics Zeiss Pathsaala

Seventh & Eighth Semester

Academic Curriculum

Internship

NSHM Value Added Curriculum

Interactive session with intern students
Case study
Webinar
Personality Development



Master of Optometry

First Semester

Academic Curriculum

Applied Optometric Optics

Advanced ophthalmic diagnostic procedures & instrumentation

Epidemiology and Community optometry Research Methodology & Biostatistics

Business aspects in optometry

NSHM Value Added Curriculum

Synopsis writing

Scope of Entrepreneurship in Optometry

Zeiss Pathsala

Journal Club 1

Training of SPSS and its Application

Second Semester

Academic Curriculum

Applied clinical optometry

Advanced contact lens practice

Geriatric optometry & Low vision rehabilitation-1

Ocular diseases & Therapeutics

Paediatric Optometry and binocular Vision-1

NSHM Value Added Curriculum

Seminar/Webinar on Advancement of low

vision technique Seminar/Webinar on Special Children

assessment

Journal Club 2 Community

Service through eye-camp

Third Semester

Academic Curriculum

Recent advances in Optometry

Occupational optometry

Geriatric optometry and low vision rehabilitation II

Paediatric optometry & binocular vision II

Advance contact lens practice II

NSHM Value Added Curriculum

Seminar/Webinar on speciality contact lens

Journal Club 3

Session on advance pedagogy

Seminar/webinar on Sports Vision

Fourth Semester

Academic Curriculum

Speciality Clinics

Dissertation

Project submission

NSHM Value Added Curriculum

Scientific paper writing

Clinical Dissertation writing

Career Directions

Optometry is one of the top ten income earning professions in the country today. In an overly populated country like India, there are millions of people suffering from various kinds of defect in their eyes. We train our students for an array of lucrative career opportunities. Some of them are:

Independent Private Practice

Employment as Optometrist in Eye Hospitals and Hospitals with Eye Departments

Professional Managers in MNCs

Higher Education like Masters in Optometry

Teaching & Research

National/International NGOs in different Projects

Research & Development Projects in Eye Care Industry Speciality Optometry Practices like Low Vision, Contact Lens, Binocular Vision, Occupational Optometry Entrepreneurship

Success Stories



Hardy MehtaOptometrist
Roosevelt Vision, Washington



Shalini Kumari Lenskart



Roheet Dhakkal Research Scholar University of London



Abhishek SinghBranch Manager
Optica East Africa-Nairobi,
Kenya



Akansha Singh Proliance Retina, Washington, USA



Aadersh Gaddhyan Clinical Associate Member at College of Syntonic Optometry-New York



Shalini Karn Medplus



Rohit Dutta Medplus



Psychology

B.Sc. - Psychology

M.Sc. - Clinical Psychology

B.Sc. - Psychology

First Semester

Academic Curriculum NSHM Value Added Curriculum

Introduction to Psychology Biological Psychology

Practical on Reaction Time.

Arousal, and identification

of changes in facial expressions

of emotion

Project based Practical on

Memory functioning including

bedside tests

Communicative English

Any one from GE Basket

Communication Skills Workshop 1 Face your fear Bootcamps Graphology

Second Semester

Academic Curriculum NSHM Value Added Curriculum

Introduction to Statistical

Methods for Psychological Research

Anti -Bullying Bootcamp

Psychology of Individual Differences

Practical on statistical

methods including usage of Excel

Practical on assessing intelligence

and Personality

Ecology: Ecosystem Dynamics and Conservation

Any one from GE Basket

Communication Skills Workshop 2 Training on basics of Research

Third Semester

Academic Curriculum NSHM Value Added Curriculum

Development of Psychological Thought

Psychological Research

Social Psychology

Project based Practical on

Gender Identity

Project based practical on

short tool development

Project based practical on

Group cohesiveness and

problem solving

Any one from GE Basket

Training on Public Speaking Resume Building Workshop

Gender Sensitization BOOTCAMP

Training in Personality Development

Forth Semester

Academic Curriculum

Understanding psychological Disorders Statistical methods for psychological research II

Applied social psychology in Practice

Practical on assessing psychological symptoms

of anxiety and depression

Practical on t test and chi square test

Practical based on Likert's Scale and Goode

and Hatte's revision of Bogardus's Scale

Any one from GE Basket

NSHM Value Added Curriculum

Case Study Group Project Workshop on Schizophrenia

Seminar on Bipolar Disorder

Seminar on Depression

Students will choose any 1 of 2 programs

Emotional Intelligence Stress Management

Fifth Semester

Academic Curriculum

Academic Curriculum

Understanding Psychological

Disorders II

Developmental Psychology

Practical on Psychopathology

Project based Practical on

Attachment and Parenting Styles

NSHM Value Added Curriculum

NSHM's value-added Curriculum

Training on Poster Making

Person with disability camp

Forgiveness and Happiness Bootcamp

Seminar on Art Therapy

Students will choose any 1 of 2 programs

Positive Psychology Health Psychology

Project Work/Dissertation

Cultural Psychology
Educational Psychology

Sixth Semester

Academic Curriculum

Organizational Behaviour

Counselling Psychology

Project based practical on

Emotional Intelligence and

Motivation of employee

Project based practical on

attitude towards mental

health treatment in various

population

NSHM Value Added Curriculum

Soft Skill Development Training

Career Counselling

Eating disorder awareness camp

Mental Health Awareness Bootcamp

Students will choose any 1 of 2 programs

Human Resource Management

Community Psychology

Project Work/Dissertation

Engineering Psychology Forensic Psychology

M.Sc. - Clinical Psychology

First Semester

Academic Curriculum

Cognitive Psychology

Physiological Psychology

Theories of Personality Structure

Application of Psychology in Community

Field Work

Personality & IQ

NSHM Value Added Curriculum

Communication Skills Workshop 1

and Empathy Building

Training on Neuropsychology

Community mental health programme

Graphology

Poster Competition Bootcamp

Second Semester

Academic Curriculum

Developmental Psychology

Fundamentals of Clinical Psychology

Research methodology

Statistics in Psychology, Scale Construction

Projective Techniques

NSHM Value Added Curriculum

Communication Skills Workshop

Third Semester

Academic Curriculum

Advanced Psychopathology

Childhood & Developmental Disorders Therapy

Psychotherapy & Counseling 1

Psychotherapy Processes

Clinical Assessment & Intervention

Observation Clinical Assessments (Case History

Taking Psychometric Evaluation) on Out-door

Clients Observation and clinical symptoms

rating scale application

and Empathy Building 2

building among caregiver

Journal club including review literature

Orientation on Children's Apperception

test (CAT)

Workshop on Hypnosis

NSHM Value Added Curriculum

Multiple Sensitization Program

Workshop on Cognitive Behaviour

Workshop on Acceptance and

Commitment therapy

Peer/group supervision

Geriatric Mental Health Camp

Capacity building among caregivers

Fourth Semester

Academic Curriculum

Psychotherapy

Health Psychology

Seminar

clinical assessments (case history taking

& Psychometric Evaluation) on Out-door

Clients (adult cases) Observation and

clinical symptoms rating scale application

Internship

Dissertation

NSHM Value Added Curriculum

Hands-on training on mental health

assessment and Intervention Session on Personal and interpersonal

Development

Workshop on family and couple Therapy

Hand on training on assessment using different types of projective and

objective tests

Borderline personality Disorder boot camp

Workshop on play therapy

Career Directions

Employment of psychologists is projected to grow 3 percent from 2019 to 2029, about as fast as the average for all occupations. On successful completion of the programme, a student can be gainfully employed as:

| Hospitals and Healthcare Facilities | Law enforcement | Marketing and Analysis |
|--|-------------------------------|--|
| Non-government organizations | Education sector | Psychological and Sociological Research |
| Caregiver | Career Counsellor | Career Employment Specialist |
| Research & Development Chemist | Lecturer | Associate Professor |
| Child Care Worker | Clinical Psychologist | Counselling Psychologist |
| Community Relations Officer | Developmental Psychologist | Day-care Centre Supervisor |
| Educational Psychologist | Forensic Psychologist | Health Educator |
| Industrial Psychologist | Neuropsychologist | Psychiatric Technician |
| Public Statistician | Psychiatric Assistant | Recreation Worker |
| Rehabilitation Specialist | Research Psychologist | Social Psychologist |
| Social Worker | Staff Recruiter | |

Success Stories



Debdutta BiswasBasilmind



Indrakshee Sen Guru Teg Bahadur Public School



Jamima Afrin Indus International School



Prodorsita Dhar Bhaskar Aditya Academy



Subhadip Sen Beyond Autism



Dietetics & Nutrition

B.Sc. - Dietetics & Nutrition

M.Sc. - Dietetics & Nutrition

B.Sc.- Dietetics & Nutrition

First Semester

Academic Curriculum

Basics of Nutrition (Theory and Practical) Food Microbiology (Theory and Practical) English Communication

NSHM Value Added Curriculum

Hospital visit to gain knowledge on biological waste management Worksop on biometric assessment Seminar on importance of Probiotics and Prebiotics in Human Health Communication skill workshop for patient handling I

Second Semester

Academic Curriculum

Basic Chemistry (Theory and Practical) Food Science (Theory and Practical) Environmental Science

NSHM Value Added Curriculum

Workshop on Food Adulteration Test Seminar on different aspects of Food Safety Seminar on role of dietitian and nutritionist in Food Industry Communication skill workshop for patient handling II

Third Semester

Academic Curriculum

Human Physiology-I (Theory and Practical) Biochemistry-I (Theory and Practical) Public Health Nutrition (Theory and Practical) Sports Nutrition

NSHM Value Added Curriculum

Seminar on Sports Nutrition Community survey on Nutritional Status Assessment Seminar on the physiology of GI tract

Fourth Semester

Academic Curriculum

Nutrition & Life Cycle (Theory and Practical) Diet Therapy I (Theory and Practical) Human Physiology-II (Theory and Practical) Public Health

NSHM Value Added Curriculum

Hands-on training on Diet chart preparation Nutritional Awareness programme on community health and well being Seminar on prevalence and management of communicable and non-communicable disease Health camp

Fifth Semester

Academic Curriculum

Diet Therapy II (Theory and Practical) Biochemistry II (Theory and Practical)

Basic of Biostatistics

Internship I (Any one discipline)

- a) Food Industry
- b) Health Industry
- c) Community)

NSHM Value Added Curriculum

FoSTaC Training I
Visit to Dairy Industry
Hands-on Training on SPSS
and its application
Food fermentation

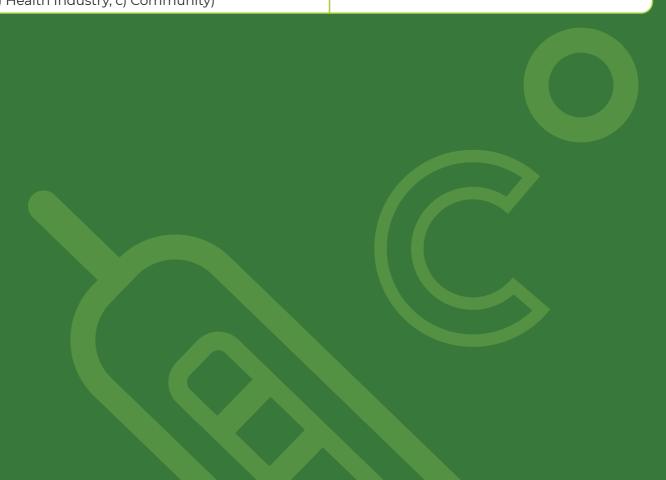
Sixth Semester

Academic Curriculum

Food Safety and Quality control (Theory and Practical) Geriatric Nutrition (Theory and Practical) Nutritional management and diet counselling Introduction to Business Management Internship -II (Any one discipline a) Food Industry, b) Health Industry, c) Community)

NSHM Value Added Curriculum

FoSTaC Training II Journal Club and research paper writing Geriatric Nutritional Status Assessment and visit to Old-Age home



M.Sc.- Dietetics & Nutrition

First Semester

Academic Curriculum

Human Anatomy and Physiology

Principles of Food Science

Epidemiology and Changing Health Care Sector

Food Microbiology

Nutritional Biochemistry

Nutritional Physiology & Biochemistry Practical

Biometric Assessment of Nutritional Status

NSHM Value Added Curriculum

Seminars on Physiological ailments

Seminars on application of Epidemiological

studies to control malnutrition

Exhibition on different food recipes to

generate awareness about food group

system and its day to day application

FoSTaC training

Journal Club Activity I

Second Semester

Academic Curriculum

Dietary Management-I

Biostatistics

Advanced Nutrition

Women Health and Nutrition

Public Health and Nutrition Policy Program

Therapeutic Diet Chart Preparation-I

Industry Assignment

NSHM Value Added Curriculum

Training on Diet counselling and

patient handling

Seminars on nutrigenomics and its application

Hands on training on Management of

Diabetes-Type I and Type II

Seminars on pre-natal and post-natal nutrition

Journal Club Activity II

Third Semester

Academic Curriculum

Dietary Management-II

Research Methodology

Paediatric, Geriatric and Sports Nutrition

Health Information and Management and

Decision Making

Food Technology and Quality Control

Therapeutic Diet Chart Preparation-II

Research Project

NSHM Value Added Curriculum

Seminar on Nutritional ergogenic aid on

sports performance

Workshop on formulating scientific strategy

in inter-disciplinary research project

Workshop on nutritional disorder and its

dietary management

Seminars on enteral and parenteral nutrition

Journal Club Activity III

Fourth Semester

Academic Curriculum

Entrepreneurship in Food Service

Nutrition Communication for Health Promotion and Its Applications

Practical Exposure to Microbiology and Packaging Dissertation

NSHM Value Added Curriculum

Workshop on importance of intellectual

property right in research writing

Hands on training to establish start-up and

developing entrepreneurship skills

Industrial visit on food packaging.

Seminar on side effect of the internal coating

of food container

Journal club Activity IV

Career Direction

The increasing awareness regarding staying fit and healthy, avoiding high-calorie unplanned diets is contributing to high demand of professional dieticians and nutritionists in India and abroad. After completing the programme, one can work as:

Food Science and Public Health Nutritionist Sports Nutritionist Technology Clinical Nutritionist Nutritionist Research Fellow/Scholar Food and Nutrition Quality Registered Dietician Food Researcher Management Officer Menu Planner - Monitoring **Food Processing** Dietician the Food Preparation Manager Clinical and Researcher in Universities, Dietician or Nutritionist Therapeutic Dietician Specialist Institution and Hospitals Public Health and Food Quality Manager **Preserving Supervisor** Community Dietician Article Writer and Teacher Professor Columnist

Success Stories



Anindita Nandi Starmark Fitness Studio



Jhilik MahantaDesun Hospital Junior Dietician



Mallika Chakraborty Medica North Bengal Clinic



Mayuree DasAssam Medical College
Pediatric Oncology Nutritionist



Neelanjana Basu Nutrition Dietetics Saroj Gupta Cancer Institute



Oindrila Mukherjee Cultfit



Dipika GhatakSenior Dietetics & Nutriton Consultant
Jeevan Jyoti Institute of Medical Sciences
Silchar, Assam



Shalu Kumari Neotia Getwell Assistant Dietician



Somaiya Shakil Sugarfit



Public Health

Master of Public Health

Master of Public Health

First Semester

Academic Curriculum

Introduction To Public Health
Principles of Management In Public Health
Epidemiology & Changing Healthcare Sector
Health Education & Communication
Health Information Management &
Decision Making
Research Methodology

NSHM Value Added Curriculum

Orientation of Students To The Community
Based Clinical Activities In Urban Public
Health Center Focusing Specifically on
Immunisation Activities, Antenatal Care,
Family Planning and Welfare Activities
Communication Skill & Public Speaking
Development
Workshops and Cme's
Theoretical aspect of Report Writing

Second Semester

Academic Curriculum

Health Economics
Finance Management & Budgeting In Health
Application Of Quantitative Methods In
Public Health
Health Care Services
Ethics & Legislations In Public Health

NSHM Value Added Curriculum

Internship at Ngo's and Field visit to
Understand Community Health Issues
Under The Supervision of Key Ngo
Functionaries and Faculty Members
Communication Skill & Public Speaking
Development
Workshops and Cme's of Professional Bodies
Case Study Project

Third Semester

Academic Curriculum

Quality Managemnet Inventory and Logistics Management Health Insurance & Managed Care Managing Human Resources In Health

NSHM Value Added Curriculum

Internship at Ngo's, Govt. Hospitals Under The Supervision of Key Ngo Functionaries an Faculty Members Communication Skill & Public Speaking Development Workshops and Cme's Research Project

Fourth Semester

Academic Curriculum

Health Policies & Research Social & Behavioural Perspective of Health Managing Diverse Health Services Organisations Health & Ecology

Electives:

Advanced Epidemiology Health Program, Policy and Planning Health Management Rmnch+a

NSHM Value Added Curriculum

Internship at Ngo's, Govt. Hospitals Communication Skill & Public Speaking Development Workshops and Cme's Research Project & Publication

Career Direction

The Master of Public Health program equips students with the skills and knowledge necessary to collaborate with communities, oversee and assess public health initiatives, and enhance public awareness of effective healthcare practices. Public health professionals can pursue careers in government, non-profit organizations, or private sector industries. In addition to implementing solutions such as health education campaigns, they also prioritize maintaining IT systems to address public health concerns.

Research/Field Officers Academicians Ph.D. Aspirants State Consultants **QA** Consultant State Epidemiologists (Quality Assurance) State Programme Block Programme Consultant Rural Managers Managers Research Officers/ Research Officers/ Field Investigators -Field Investigators - WHO Field investigators - UNICEF NGO's Medical Officers -Consultant- Rural & Consultant Health Insurance (Research & Documentation) Child Health under Companies under National Health Mission Health & Family

Welfare Services

Success Stories



Dr Paulomee KashyaNational Consultant
Monitoring & Evaluation
National Center for Vector Borne
Disease Control, MOHFW, India



Dr Reshmi Saha Asst.Professor IMS, Kolkata



Dr Sudipta BhattacharyaJunior Research Associate
ICMR Hospital Based Cancer Registry
Peerless Hospital



Dr. Shramana DasProgram Impact Specialist
Plan India



Dr. Aditi VirmaniMedical Officer
E-Expendise Healthcare
Gurgaon



Mr. Gajanan Maharana Monitoring & Evaluation Specialist UNFPA, Odisha



Yoga Sciences

B.Sc. - Yoga

M.Sc. - Yoga



B.Sc.- Yoga

First Semester

Academic Curriculum

Human System According to Eastern & western Concept

Yog-abhyasa

Students Will have to Select From The Ge Basket English Communication

NSHM Value Added Curriculum

Expert talk on relevant topics
One week residential yoga retreat.
Bhajan- The impact of sound vibration
on wellness

Second Semester

Academic Curriculum

Texts on Yoga

Yog-Abhyasa II

Students will have to select from the GE Basket Environmental Science

NSHM Value Added Curriculum

State level Yogasana competition Interpersonal skill development workshop Indian traditional performing arts training.

Third Semester

Academic Curriculum

Traditional Systems of Healing Cultural history of ancient India & the importance of Vedas, Upaniṣhad & laterVedic literature Yoga for Common Ailments Students will have to select from the GE Basket

NSHM Value Added Curriculum

- 1. State level Yogasana competition
- 2. Poster Presentation
- 3. Educational Tour
- 4. CLC Sanskrit Language level -1

Fourth Semester

Academic Curriculum

Basics of Sanskrit Grammar

Bhagavad Gita Science And Consciousness Narada Bhakti Sutras / Yogic Techniques Minor Project - Narada Bhakti Sutras / Yogic Techniques

NSHM Value Added Curriculum

Public Speaking

Wellness centric Yoga training workshop in hospital / centre

National level Yogasana championship Optional Foreign Language Certification (Beginners)

Fifth Semester

Academic Curriculum

Entrepreneurship Mindset Development (Karma Yoga - Field Work) Teaching Practice Laya Yoga / Bhagavad Gita-II Major Project - Internship

NSHM Value Added Curriculum

Expert talk on relevant topics Karma Yoga (Field Work) Visit to Traditional Yogic places of repute. Optional Foreign Language Certification (Intermediate)

M.Sc. - Yoga

First Semester

Academic Curriculum

Introduction to Sanskrit Human Anatomy & Physiology Vedas Upanisads and Darsanas Yoga Philosophy and Health Psychology & Counseling Advanced yoga practice –i

NSHM Value Added Curriculum

Seminar / Guest Lecture on relevant topics One week residential yoga retreat where students imbibe yogic lifestyle in Gurukula environment

CLC - Sanskrit Language level -1 Spoken English & Personality Development Optional Foreign Language Certification (Beginners)

Second Semester

Academic Curriculum

Bhagavad Gita Common Ailments - I Patanjali Yoga Sutras Hatha Yoga Research Methodology Advanced yoga practice – ii

NSHM Value Added Curriculum

State level Yogasana competition Interpersonal skill development workshop Indian traditional performing arts training CLC - Sanskrit Language level -2 Optional Foreign Language Certification (Intermediate)

Third Semester

Academic Curriculum

Common Ailments - Ii Philosophy Science & Consciousness Narada Bhakti Sutras Yoga Therapy & Other Systems Of Healing Advanced Yoga Practice – Iii Yoga therapy – i

NSHM Value Added Curriculum

Public Speaking Yoga therapy training workshop in hospital / centre Educational Tour National level Yogasana championship

Fourth Semester

Academic Curriculum

Pranayama & Meditation Yoga Therapy – Ii Teaching Practice Yoga Therapy Training Dissertation & Presentation Karma yoga (field work)

NSHM Value Added Curriculum

National Seminar / Guest Lecture on Paper / poster Presentation Intermediate Teacher Training Sessions Internship Bhajan- The impact of sound vibration on wellness

Career Direction

As many people are embracing Yoga in their changing lifestyle, there is increasing job opportunities in India as well as in abroad for a Yoga professional. There are several career options available for a Yoga professional in government & private sectors in India where professionals can work as:

Research Officer-Yoga and Naturopathy Yoga Aerobics Instructor Assistant to Ayurvedic Doctors

Assistant to Clinical Psychologists

Yoga Therapist

Yoga Instructor

Yoga Teacher

Therapists and Naturopaths

Yoga Advisor

Yoga Specialist

Yoga Practitioner

Yoga Consultant

Students Success Stories



Namrata Shah Research Analyst and Kumbhak Therapy Mentor Astika Wellness Pvt. Ltd.



Priyanka MondalJunior Faculty, Dept. of Yoga
NSHM College of Management



Kakali ChatterjeeJunior Faculty, Dept. of Yoga
NSHM College of Management



Medical Technology

B.Sc. - Medical Lab Technology

B.Sc. - Medical Instrumentation & Critical

Care Technology

B.Sc. - Medical Imaging Technology

M.Sc. - Medical Lab Technology

M.Sc. - Medical Imaging Technology

B.Sc. - Medical Lab Technology

First Semester

Academic Curriculum

Human Anatomy I Human Physiology I

Health Education and communication

English Communication

NSHM Value Added Curriculum

Public Speaking Bootcamp

Advance PowerPoint Bootcamp

Communication Skill Bootcamp I

Resume Building Workshop

Second Semester

Academic Curriculum

Human Anatomy II

Human Physiology II Biomedical Waste Management

Entrepreneurship

Environmental Science

NSHM Value Added Curriculum

Case Study Group Project I

Financial Technical Analysis Bootcamp

Communication Skill Bootcamp II

Hospital visit

Third Semester

Academic Curriculum

Pathology

Haematology I

Biochemistry

Presentation Skill and Excel Basic Data Analysis

Design and human Evolution

Lab management and medical Ethics

NSHM Value Added Curriculum

ELO Class I

Performing Arts

Sculpture and 3D Arts

Photography

Travel and Tourism

Hospital Training-I

Fourth Semester

Academic Curriculum

Microbiology

Haematology II

Immunology

Biostatistics

Hospital Support Service

NSHM Value Added Curriculum

Communication Skill Bootcamp III

Cultural Activity

Sports activity

Mushroom Cultivation

Hospital Training-II

Fifth Semester

Academic Curriculum

Immunology and Blood banking

Parasitology and Virology

Diagnostic Cytology

Clinical Enzymology

NSHM Value Added Curriculum

Communication Skill Bootcamp IV

ELO Class II

Case Study Group Project II

Hospital Training III

Sixth Semester

Academic Curriculum

Human Anatomy II

Human Physiology II

Biomedical Waste Management

Entrepreneurship

Environmental Science

NSHM Value Added Curriculum

Case Study Group Project I

Financial Technical Analysis Bootcamp

Communication Skill Bootcamp II

Hospital visit

B.Sc. Medical Instrumentation & Critical Care Technology

First Semester

Academic Curriculum

Basic Anatomy Basic Physiology

Health Education and communication

Environmental studies

NSHM Value Added Curriculum

Communication Skill Bootcamp I

Public Speaking Bootcamp

Advance PowerPoint Bootcamp

Resume Building Workshop

Second Semester

Academic Curriculum

Fundamentals of Biochemistry

Essentials of Pathology

Biomedical Waste Management

Entrepreneurship

English Communication and Language Lab

NSHM Value Added Curriculum

Presentation I

Financial Technical Analysis Bootcamp

Communication Skill Bootcamp II

Case Study Group Project I

Third Semester

Academic Curriculum

Applied Anatomy Related to Critical care

Applied Physiology Related to Critical care

Fundamentals of Electrical and Electronics

Presentation Skill and Excel Basic Data Analysis

Design and human Evolution

Ethical Standard of Critical Care Technology

NSHM Value Added Curriculum

ELO Class I

Performing Arts

Photography

Travel and Tourism

Hospital Training-I

Presentation II

Fourth Semester

Academic Curriculum

Biomedical instrumentation

ICU Therapy

Clinical Pharmacology

Biostatistics

Hospital Support Services

Procedural Skills in Critical Care

NSHM Value Added Curriculum

Communication Skill Bootcamp III

Cultural Activity

Sports activity

Mushroom Cultivation

Hospital Training-II

Fifth Semester

Academic Curriculum CSSD Procedures Cellular Biophysics Cardiovascular Technology Major Project NSHM Value Added Curriculum ELO Class II Communication Skill Bootcamp IV Presentation III Hospital Training III

Sixth Semester

| Academic Curriculum | NSHM Value Added Curriculum |
|---|------------------------------------|
| Equipment Maintenance and Troubleshooting | Communication Skill Bootcamp V |
| Radiation Biophysics | Case Study Group Project III |
| Dialysis Technology | Presentation IV |
| Major Project | Hospital Training IV |



B.Sc. - Medical Imaging Technology

First Semester

Academic Curriculum

Human Anatomy and Physiology Basic Biochemistry Health Education and communication English Communication

NSHM Value Added Curriculum

Public Speaking Bootcamp Advance PowerPoint Bootcamp Communication Skill Bootcamp I Resume Building Workshop

Second Semester

Academic Curriculum

Pathology Microbiology Biomedical Waste Management Environmental Science

NSHM Value Added Curriculum

Communication Skill Bootcamp II Financial Technical Analysis Bootcamp Case Study Group Project I Blood Bank Camp Workshop on Advance Diag. Technique

Third Semester

Academic Curriculum

Pharmacology
Basic Physics of Radiography
Radiographic film & Image processing techniques
Presentation Skill and Excel Basic Data Analysis
Medical Ethics

NSHM Value Added Curriculum

ELO Class I Performing Arts Sculpture and 3D Arts Photography Travel and Tourism Hospital Training-I

Fourth Semester

Academic Curriculum

Radiography of Chest, Abdomen, Pelvis and Skull Radiography of Spine and Extremities Mammography, Fluoroscopy, and Mobile Radiography Biostatistics Hospital Management

NSHM Value Added Curriculum

Communication Skill Bootcamp III Cultural Activity Sports Activity Development and Management Skill Hospital Training-II

Fifth Semester

Academic Curriculum

Contrast Media: Reaction and Management of Special Radiography procedures Physics of Ultrasound and CT Quality Control in radiography, PC and PNDT, PACS and planning of Radiology Department Dental Radiography

NSHM Value Added Curriculum

Communication Skill Bootcamp IV ELO Class II Case Study Group Project II Seminar-I Hospital Training III

Sixth Semester

Academic Curriculum

Radiobiology and Radiation safety Physics and Hardware of MRI Imaging sequences and advances in MRI Recent advances and guided Radiological Procedures

NSHM Value Added Curriculum

Communication Skill Bootcamp V
Case Study Group Project III
Medical Camp
Seminar-II
Hospital Training IV



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M.Sc. - Medical Imaging Technology

First Semester

Academic Curriculum

Human Anatomy and Physiology Instrumentation of Conventional

Radiological Equipments-I

Radiographic Procedures-I

Radiation Physics-I

Advanced Technique and

Instrumentation of Ultrasound-I

Radiation Protection and

Management of Radiology Department-I

NSHM Value Added Curriculum

Communication Skill Bootcamp I

Public Speaking Bootcamp

Advance PowerPoint Bootcamp

Resume Building Workshop

Seminar-I

Hospital Training-I

Second Semester

Academic Curriculum

Human Anatomy and Physiology

Instrumentation of Conventional

Equipments-II

Radiographic Procedures-II

Radiation Physics-II

Advanced Technique and

Instrumentation of Ultrasound-II

Radiation Protection and

Management of Radiology Department-II

NSHM Value Added Curriculum

Case Study Group Project I

Radiological

Development and management skill

ELO Classes-I

Cultural Activity

Sports Activity

Seminar-II

Blood Donation Camp

Hospital Training-II

Third Semester

Academic Curriculum

Advance Technique and Instrumentation of CT-I Advance Technique and Instrumentation of MRI-I Techniques and Equipments of Interventional Radiology and Nuclear Medicine Technology-I Care of Patient in Diagnostic Radiology and Management of Health Organization-I Biostatistics

NSHM Value Added Curriculum

Poster Presentation

Workshop on Advance Diag. Techniques

Financial Analysis Boot Camp

ELO Classes-II

Photography

Performing Arts

Seminar-III

Hospital Training-III

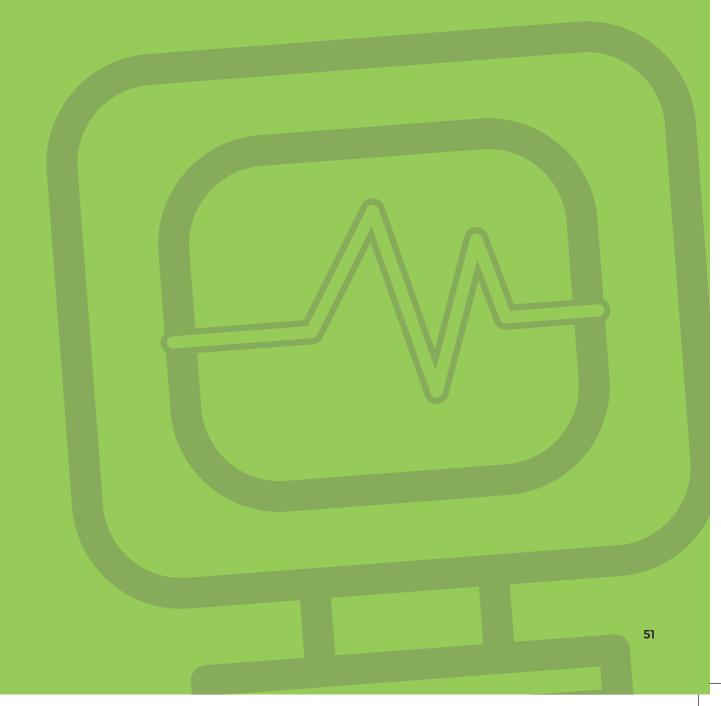
Forth Semester

Academic Curriculum

Advance Technique and Instrumentation of CT-II
Advance Technique and Instrumentation of MRI-II
Techniques and Equipments of Interventional
Radiology and Nuclear Medicine Technology-II
Care of Patient in Diagnostic Radiology and
Management of Health Organization-II
Project/ Thesis
Seminar/ Presentation
Hospital Training

NSHM Value Added Curriculum

Entrepreneurial Skill Development Community Visit Medical Camp



M.Sc. - Medical Laboratory Technology

First Semester

Academic Curriculum

Structure and Function of Biomolecules Analytical and Physical Biochemistry Fundamentals of Enzymology Molecular Metabolism- I

NSHM Value Added Curriculum

Public Speaking Bootcamp Communication Skill Bootcamp I Advance PowerPoint Bootcamp Resume Building Workshop Seminar-I Hospital Training-I

Second Semester

Academic Curriculum

Biochemical Techniques Clinical Biochemistry-I Molecular Metabolism-II General Physiology & Organ Function Test

NSHM Value Added Curriculum

Case Study Group Project I
Development and management skill
ELO Classes-I
Cultural Activity
Sports Activity
Blood donation Camp
Seminar-II
Hospital Training-I

Third Semester

Academic Curriculum

Clinical Biochemistry-II Applied molecular Biology Statistics and Cli. Biochemistry Lab Management Automation in the Clinical Biochemistry Laboratory

NSHM Value Added Curriculum

Poster Presentation
Workshop on Advance Diag. Techniques
Financial Analysis Boot Camp
ELO Classes-II
Photography
Performing Arts
Seminar-III

Fourth Semester

Academic Curriculum

Dissertation Journal Club Industrial/Laboratory Training

NSHM Value Added Curriculum

Entrepreneurial Skill Development Seminar-IV Community Visit Medical Camp

Hospital Training-III

Career Direction

The course also enables them to adapt to modern and emerging medical lab technologies by way of lifelong learning and practice in a multi-disciplinary and diverse health environment and discharge their services with ethics, values, and social responsibility.

Laboratory Laboratory Supervisors Laboratory Technologist **Technologists** Laboratory Manager Technology Manager Laboratory Assistant Medical Record Dialysis Technologists Research Associate **Technologist** Associate Professor -Laboratory Testing Resident Medical Officer Biotechnology Manager Associate Professor – **Phlebotomist** Blood Bank Technologist **Bio-Medical** Crtical Technology ICU In-charge

Success Stories



Ahmed Reja Asarfi Hospital



Kollol Dey Health World Hospital



Md. Jahid Equebal My Med Healthcare



Poushali Ghosh Asarfi Hospital



Rahul Banerjee Asarfi Hospital



Md. Sarfaraz Hauque Gouri Devi Hospital



Sakib Hossain Milki BPHC

M.Sc. - Environmental Science

First Semester

Academic Curriculum

Systems Perspectives and Holism in Environment "Evolution of Earth-Environment Systems"

"Atmospheric Processes and Climate Cognition"

Environmental Geoscience

Energy & Environment

Audit Course I

NSHM Value Added Curriculum

Clc Class

Field Visit

Industry Visit

External Loboratory Collaboration

Second Semester

Academic Curriculum

"Ecosystems and Challenging Ecological Realms" Environmental Risks, Vulnerability & Sustainability "Environmental Engineering and Pollution Control Technology"

Forestry, Wildlife Conservation and Ecotourism
"Natural Resources Management & Sustainability"
Audit Course II

NSHM Value Added Curriculum

Clc Class

Field Visit

Industry Visit

External Loboratory Collaboration

Third Semester

Academic Curriculum

Statistics & Environmental Modelling

"Remote Sensing and Geographical Information

System"

Disaster Management

Ecological Restoration

NSHM Value Added Curriculum

Clc Class

Field Visit

Industry Visit

External Loboratory Collaboration

Fourth Semester

Academic Curriculum

"Environmental Biotechnology, Eco-Toxicology and Bioremediation"

"Environmental Legislation & Impact Assessment"

"Environmental Economics & Audit"

"Wastes & Waste Management"

"Environmental Research Project & Dissertation"

NSHM Value Added Curriculum

Clc Class

Field Visit

Industry Visit

External Loboratory Collaboration

Placements & Internships

























































Research Projects - Health Sciences

Development Of An Aloe Vera Gel-based Hand Sanitizer

Dr. Mainak Mal

Department of Pharmacy

Studies have shown that gel-based sanitizers are often more desirable than liquid sanitizers because they generally smell less and are more portable, among other benefits. We at the Department of Pharmaceutical Technology, NSHM Institute of Health Sciences, Kolkata, Group of Institutions, have developed an aloe vera gel-based hand sanitizer using optimal amount of isopropyl alcohol (about 50% v/v) and containing ingredients like jojoba oil and glycerine which makes it a skin friendly option among all age groups. Moreover, we have carried out dermal toxicity study of the prepared gel based hand sanitizer using Wistar rats as per OECD guideline number 402. The results obtained from dermal toxicity study ensured its safety and skin friendliness. Some of the post graduate M.Pharm students of the department carried out the dermal toxicity study while some of the undergraduate B.Pharm students were involved in preparing the aloe vera gel based sanitizer.

Development Of Mobile Based Fundus Camera

Dr. Satyam Kumar Jha

Department of Optometry & Vision Science

The motivation of this project is to involve students for the development of mobile based fundus camera which is not only a novel device for fundus examination but also allows students to think of out of the box ophthalmic devices which are not there in current curriculum. Currently, indirect ophthalmoscopes are considered gold standard for fundus examination as it permits stereoscopic vision and wider field of view. However, indirect ophthalmoscopy does not provide recording of patient's fundus for comparison in between the follow-ups. The field of optometry is undergoing a major transformation with the advent of mobile-based technology. One such technology is the mobile fundus camera, which has the potential to revolutionize the way eye examinations are performed. A fundus camera is a specialized device used to capture high-resolution images of the retina and other eye structures. The development of mobile-based retinal cameras offers several advantages over fundus evaluation technique i.e. indirect ophthalmoscopy. Not only mobile based fundus camera will be ease of use for eye care practitioners but also offers improved portability and cost reduction.

Research Projects -Health Sciences

Nutritional Status Of Community-dwelling Adult Women In Urban Areas of Bankura, West Bengal & its Association With Cardiovascular Disease Risk Factors & Socio-Demographic

Dr. Joyeta Ghosh Department of Dietetics & Nutrition

Nutrition has been a major health issue in India for centuries. Chronic hunger and under- nutrition are the worst tribulation of the poverty that still plagues millions of households in India. India, in the recent past, has made a considerable progress in social and economic fronts but improvement in nutritional status especially of the women is found to be lagging. Women constitute substantial population in any society and their statistics reflects the type of society and cultures they live in. Thus, for studying the intake of a society, analysis of women's position in terms of their status and role becomes significant.

The wheel of development and fortune of the society depends upon the progress and development of women. She contributes a lot for the welfare of the society but unfortunately she is the most discriminated one. The discrimination against women starts right from her birth and continues till her last breath. Differences frequently emerge in consideration of health and nutritional status between the sexes. Throughout their life cycles women receive less food and also inferior quality of foods than men do. The socio- economic and socio- cultural dimensions of the subject "women and nutrition" have two- fold significance. Firstly, the cultural norms and practices and socio-economic situation determine the extent to which women are able to contribute to the nutritional levels of their families. Secondly these factors also determine their own nutritional status. According to the survey conducted by Indian Council of Social Science Research, 48.53 percent respondents stated that women serve the family first and eat last. In poor families this results in greater malnutrition of women. There are few studies reported on urban adult women of West Bengal and there has been no study done yet at urban areas of Bankura. Therefore, the present study is focused on to find out the prevalence of malnutrition among community-dwelling adult women in urban areas of Bankura, West Bengal and its association with cardiovascular disease risk factors and the socio-demographic profile.

Research Projects -Health Sciences

Comparative Study of Covid-19 Outbreak on Dietary Diversity and Food Security in Rural and Urban Areas of Durgapur

Dr. Manisha Chatterjee

Aniruddha Samanta, Anuradha Mukherjee, Krishna Agarwal, Sweta Kumari, Neha Roy, Anuska Koner, Richa Singh

Department of Dietetics & Nutrition

In 2020, the Covid-19 outbreak spread rapidly all over the world and caused fatal consequences on people's health. Adequate nutrition was required to boost the immune system and fight against Covid-19. Therefore, the knowledge, attitude, and practice (KAP) towards Covid-19 prevention is most essential. The objective of this study is to assess the knowledge, attitude, and practices regarding the dietary diversity & food security of people before & during the Covid-19 outbreak. A cross sectional study was conducted over a period of three months with a pre-tested validated questionnaire among 360 people of rural & urban areas of Durgapur. It is observed that 33% of rural people and 22% of urban people experience lack of knowledge and attitudes regarding nutrition. But in practice they changed their food pattern during Covid situation. The consumption of different food groups like pulses (7%), nuts (6%) and fruits (7%) were increased for urban population whereas for rural people mainly the consumption of vegetables (5%) were increased during covid situation in comparison to pre-Covid situation. As there is a lack of knowledge, so proper education about nutrition may potentially improve the practices to prevent Covid-19 and other lifestyle diseases.

Events & Activities



















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