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Key Indicator – 1.1 Curriculum Design and Development

(50)

1.1.1 Curricula developed and implemented have relevance to the local, national, regional and global developmental needs, which is reflected in the Programme outcomes (POs), and Course Outcomes(COs) of the Programmes offered by the University

(20)

Criterion 1 – Curricular Aspects (150)

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KEY INDICATOR – 1.1.1

Curricula developed and implemented have relevance to the local, national, regional and global developmental needs, which is reflected in the Programme outcomes (POs), and Course Outcomes (COs) of the Programmes offered by the University

Curriculum Mapping with SDG Goals

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School of Health Sciences

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Programs fulfilling SDG Criteria

The academic programs offered in School of Health Sciences collectively align with several Sustainable Development Goals (SDGs) by integrating principles of quality education, health equity, environmental consciousness, and community engagement into their curricula. Here's a summarized overview of their contributions:

Combined Alignment with SDGs

These programs offer a multi-faceted approach to supporting SDGs:

1. **Quality Education (SDG 4):** Comprehensive academic frameworks with practical skills, MOOCs, and internships enhance employability and lifelong learning.
2. **Good Health and Well-Being (SDG 3):** Emphasis on healthcare professions ensures accessible, quality medical and psychological services.
3. **Gender Equality and Reduced Inequalities (SDGs 5, 10):** Promotes inclusion through service-based learning in underserved areas.
4. **Climate Action (SDG 13):** Courses in Environmental Science and sustainable practices foster ecological awareness.
5. **Decent Work and Economic Growth (SDG 8):** Specialized training for emerging healthcare fields addresses skill gaps in the workforce.
6. **Partnerships for the Goals (SDG 17):** Collaborations with hospitals, industries, and global platforms like MOOCs amplify the societal impact.

Table: SDG Contribution by Program

Program	Key SDG Contributions	Features
B.Optom,M.optom	SDG 3, SDG 4, SDG 10,SDG17	Community service-based courses, practical optometry skill-building, Advanced clinical exposure, industry partnerships for internships
B.Pharm	SDG 3, SDG 8	Focus on public health, social pharmacy, and internships
B.Sc. Cardiovascular Technology, M.Sc.CVT	SDG 3, SDG 4	Clinical training, patient safety protocols, and national healthcare delivery
B.Sc. Psychology	SDG 3, SDG 5, SDG 10	Industrial training, community services, and focus on inclusive mental health
B.Sc. Medical Lab Technology (MLT), M.Sc.MLT	SDG 3,SDG4, SDG 8	Research methodology, Clinical training, sustainable lab practices, and diagnostic expertise.
B.Sc.MRIT, M.Sc.MRIT	SDG 3, SDG 4, SDG8, SDG 10	Advanced training, creating skilled professionals, fostering technological advancements, and global collaborations.

These programs holistically address SDGs through professional skill development, community outreach, and sustainable practices while preparing students for future challenges in their respective fields.

for 19/12/24

DEAN
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SDG Goals Mapped to the Curriculum of B.Sc. MLT

Sustainable Development Goal (SDG)	Relevant Subjects in the Syllabus	Key Contributions
SDG 3: Good Health and Well-being	- General Anatomy and Physiology - Basics of Clinical Biochemistry - Introduction to Quality and Patient Safety - Microbiology - Advanced Hematology	- Develops clinical diagnostic expertise. - Emphasizes patient safety and quality care. - Provides understanding of disease mechanisms and prevention strategies.
SDG 4: Quality Education	- Medical Terminology and Record Keeping - Environmental Science - Research Methodology and Biostatistics	- Promotes effective communication and technical skills. - Encourages evidence-based practices through research and education.
SDG 5: Gender Equality	- Healthcare delivery modules including community service components	- Focuses on equitable access to healthcare education and services for diverse communities, addressing gender-specific health concerns.
SDG 6: Clean Water and Sanitation	- Environmental Science (Module on waste management and water conservation) - Biomedical Waste Management	- Educates students on sustainable practices in water conservation, wastewater treatment, and sanitation to ensure hygienic healthcare environments.
SDG 8: Decent Work and Economic Growth	- Clinical Rotations and Internships - Research Projects	- Prepares students for employability in healthcare sectors. - Fosters entrepreneurial skills and leadership.
SDG 9: Industry, Innovation, and Infrastructure	- Basics in Computer & Information Science - Application of Modern Technologies in Healthcare - Biostatistics Modules	- Promotes the use of AI, digital health tools, and data analysis for healthcare innovation.
SDG 10: Reduced Inequalities	- Community Service Modules - National Health Care Delivery System	- Emphasizes healthcare access for underserved populations, reducing disparities in health outcomes.
SDG 12: Responsible Consumption and Production	- Environmental Science - Biomedical Waste Management	- Focuses on sustainable healthcare practices, proper waste management, and responsible use of laboratory resources.

Sustainable Development Goal (SDG)	Relevant Subjects in the Syllabus	Key Contributions
SDG 13: Climate Action	- Environmental Science Modules on Climate Change and Public Health	- Teaches the impact of climate change on health and emphasizes sustainable solutions in healthcare systems.
SDG 17: Partnerships for the Goals	- Collaboration with Hospitals and Research Institutions - Internship Programs	- Strengthens partnerships between academia, healthcare providers, and industry for a holistic learning experience and knowledge-sharing.

2. SDG Goals Mapped to the Curriculum of B.Sc. MRIT

Sustainable Development Goal (SDG)	Relevant Subjects in the Syllabus	Key Contributions
SDG 3: Good Health and Well-being	- Advanced Imaging Techniques - Radiation Safety and Protection - Clinical Practice in Hospitals	- Enhances diagnostic precision and ensures safe imaging practices.
SDG 12: Responsible Consumption and Production	- Biomedical Waste Management - Radiation Equipment Management	- Promotes responsible handling of radiological resources and waste.
SDG 9: Industry, Innovation, and Infrastructure	- Digital Imaging and AI in Radiology - Advanced Imaging Modalities	- Introduces cutting-edge technologies to improve diagnostics and infrastructure.
SDG 13: Climate Action	- Environmental Science (Impact of Radiological Waste)	- Highlights the environmental impact of radiology waste and promotes sustainable practices.

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3. SDG Goals Mapped to the Curriculum of B. Pharm (Pharmacy)

Sustainable Development Goal (SDG)	Relevant Subjects in the Syllabus	Key Contributions
SDG 3: Good Health and Well-being	- Pharmacology - Social and Preventive Pharmacy - Pharmaceutical Chemistry	- Focuses on drug safety, formulation, and public health improvement.
SDG 12: Responsible Consumption and Production	- Sustainable Pharmacy Practices	- Promotes efficient and sustainable pharmaceutical production and waste management.
SDG 8: Decent Work and Economic Growth	- Industrial Training Modules	- Prepares students for employment in pharmaceutical industries.
SDG 9: Industry, Innovation, and Infrastructure	- Research in Pharmaceutical Sciences	- Encourages innovation in drug development and clinical applications.

4. SDG Goals Mapped to the Curriculum of B.Optom (Optometry)

Sustainable Development Goal (SDG)	Relevant Subjects in the Syllabus	Key Contributions
SDG 3: Good Health and Well-being	- Advanced Contact Lens Technology - Low Vision and Rehabilitation - Public Health and Community Optometry	- Provides care for visual impairments and enhances access to eye health services.
SDG 10: Reduced Inequalities	- Community Eye Health Programs	- Improves access to vision care in underserved communities.
SDG 17: Partnerships for the Goals	- Global Eye Care Perspectives	- Encourages collaboration with global organizations for better eye care solutions.

5. SDG Goals Mapped to the Curriculum of B.Sc. Cardiovascular Technology (CVT)

Sustainable Development Goal (SDG)	Relevant Subjects in the Syllabus	Key Contributions
SDG 3: Good Health and Well-being	- Cardiac Diagnostics - Advanced Cardiac Physiology - Clinical Biochemistry	- Prepares students to diagnose and manage cardiovascular conditions effectively.
SDG 9: Industry, Innovation, and Infrastructure	- Use of Advanced Imaging Modalities	- Introduces innovative technologies in cardiac care.
SDG 8: Decent Work and Economic Growth	- Clinical Internships	- Enhances employability through practical exposure to healthcare systems.

6. SDG Goals Mapped to the Curriculum of B.Sc. Psychology

Sustainable Development Goal (SDG)	Relevant Subjects in the Syllabus	Key Contributions
SDG 3: Good Health and Well-being	- General Psychology - Clinical Psychology - Community Psychology	- Focuses on mental health and emotional well-being.
SDG 5: Gender Equality	- Gender Psychology	- Addresses mental health disparities linked to gender.
SDG 10: Reduced Inequalities	- Inclusive Mental Health Practices	- Promotes mental health equity across socio-economic groups.

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SDG Goals Mapped to Postgraduate Programs (Program-wise)

1. M.Sc. Cardiovascular Technology (M.Sc. CVT)

Sustainable Development Goal (SDG)	Relevant Subjects in the Syllabus	Key Contributions
SDG 3: Good Health and Well-being	- Advanced Cardiac Physiology - Interventional Cardiology - Clinical Research and Evidence-Based Practice	- Provides expertise in diagnosing and treating complex cardiovascular conditions. - Focuses on evidence-based clinical practices to improve patient outcomes.
SDG 9: Industry, Innovation, and Infrastructure	- Advanced Cardiac Imaging Techniques - Use of Digital Health Tools	- Introduces modern diagnostic tools and technologies to enhance cardiac care.
SDG 8: Decent Work and Economic Growth	- Hospital Rotations and Internships	- Prepares students for high-demand roles in specialized cardiovascular care.
SDG 4: Quality Education	- Research Methodology and Dissertation	- Equips students with advanced research skills to generate impactful solutions in cardiac healthcare.
SDG 12: Responsible Consumption and Production	- Sustainable Practices in Cardiology	- Encourages responsible use of medical equipment and resources to reduce environmental impact.

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2. M.Sc. Medical Radiology and Imaging Technology (M.Sc. MRIT)

Sustainable Development Goal (SDG)	Relevant Subjects in the Syllabus	Key Contributions
SDG 3: Good Health and Well-being	- Advanced Radiation Physics - Digital Imaging Techniques - Clinical Applications of AI in Radiology	- Enhances diagnostic accuracy and ensures patient safety through advanced imaging techniques.
SDG 9: Industry, Innovation, and Infrastructure	- AI in Radiology - Advanced Imaging Modalities	- Promotes innovation by integrating AI and digital tools into diagnostic practices.
SDG 12: Responsible Consumption and Production	- Radiation Safety and Protection - Waste Management in Radiology	- Focuses on sustainable radiology practices and the safe disposal of radiological waste.
SDG 8: Decent Work and Economic Growth	- Clinical Rotations and Internships	- Prepares students for careers in radiology and imaging technology by providing practical exposure.
SDG 13: Climate Action	- Environmental Science (Impact of Radiological Waste)	- Addresses the environmental implications of radiology practices and promotes sustainable solutions.
SDG 4: Quality Education	- Research Methodology and Dissertation	- Encourages evidence-based practices and innovation in radiology research.

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3. Master of Optometry (M.Optom)

Sustainable Development Goal (SDG)	Relevant Subjects in the Syllabus	Key Contributions
SDG 3: Good Health and Well-being	- Advanced Ocular Diseases - Low Vision and Rehabilitation - Clinical Practice in Specialty Eye Care	- Enhances the ability to diagnose and treat complex ocular conditions. - Provides advanced care for visually impaired individuals.
SDG 4: Quality Education	- Optometry Research and Dissertation	- Develops advanced research skills to address challenges in eye care.
SDG 10: Reduced Inequalities	- Community Eye Health Programs	- Focuses on providing eye care services to underserved communities, reducing disparities in healthcare.
SDG 9: Industry, Innovation, and Infrastructure	- Innovations in Contact Lens Technology - Global Eye Care Perspectives	- Introduces cutting-edge technologies in optometry and encourages global collaborations for better eye care solutions.
SDG 8: Decent Work and Economic Growth	- Internship Programs	- Enhances employability and skill-building in the field of optometry.
SDG 17: Partnerships for the Goals	- Collaborations with Global Eye Health Organizations	- Encourages international collaborations to improve global eye care standards.