

University Centric Report- Activity Specific

DRAFT ON PRACTICING UN SUSTAINABLE DEVELOPMENT GOALS (SDG) AT IGDTUW

GOAL 1: No Poverty

Course Content: Taught as a part of the course Women & Sustainable Development (at graduate) and Sustainable development (at postgraduate level)

Course Transaction: Ideation & Documentation of Implementation of Sustainable solution developed through academic intervention for SARI Village, Uttarakhand addressing issues of migration, livelihood, youth empowerment, disaster management, adaptive reuse, sustainable food and energy production

University Outreach: University has adopted five villages in Delhi region and conducted household surveys to map socio-economic conditions. Based on the analysis, the University is exploring collaboration on income generation and livelihood programmes with NGOs like Hand in Hand, Oxfam, etc.

GOAL 2: Zero Hunger

Course Content: Taught as a part of the course Women & Sustainable Development (at graduate) and Sustainable development (at postgraduate level).

GOAL 3: Good Health and Well-being

Course Content:

1. Taught as a part of the course Women & Sustainable Development (at graduate) and Sustainable development (at postgraduate level)
2. Climatology and solar passive designing taught as a core subject in B.Arch Programme for ensuring adequate well-being to avoid sick building syndrome

Course Transaction:

1. Emerging examples plus dissertations.
2. Climatic analysis is mandatory in all design project assignments taken up by all students of Department of Architecture & Planning

University Outreach:

1. Mask Disposal video were made and circulated in the schools of the adopted 5 villages for creating awareness during the COVID-19 pandemic
2. Instructional video on simple breathing exercise were made and circulated with students, parents and teachers as an effort of COVID preparedness

Co-Curriculum Activities:

1. Regular activities on Yoga, Menstrual Hygiene are held in the University
2. Self-defense workshops for Women organised in collaboration with Delhi Police On quarterly basis for mental and physical well being

University Infrastructure: University has a fully functional health centre.

GOAL 4: Quality Education

Course Content:

1. Revision of syllabus of all programmes held in 2019 and implemented in 2019-20 academic year to promote interdisciplinary education
2. Taught as a part of the course Women & Sustainable Development (at graduate) and Sustainable development (at postgraduate level)

Course Transaction:

1. Developing sensitivity towards sustainable development through major and minor projects on topics associated with SDG like gender empowerment, climate responsiveness, cleaner & sustainable energy, etc. Some project includes- Streets as social capital, gender sensitive jail design, Waste management system using tech based platform, Package free dream- an alternative to food packaging, Pedego app - pedestrian friendly application, etc.
2. Complete, fast & timely transition of academic activities to online mode during COVID without compromising on quality of education
3. Expert sessions, field trips, site visits, conducted on regular basis

University Outreach:

1. Summer schools & Boot camps organised for school students and general population in field of Robotics, AI, etc
2. FDP on Fair Conditioning- Training the Trainers on how climatic responsiveness can be integrated in course curriculum and International Conference on Artificial Intelligence & Speech Technology.
3. Consultancy project for UNICEF on Gender and Climate Responsive WASH in Schools & Anganwadi
4. Industrial Training & Internships like TCPO, Govt. of India, South Delhi Municipal Corporation, NGO's, any other partnership

Projects: Real life exposure provided ensured through

1. Collaboration between University and Civic Agency. Examples- MOU with North Delhi Municipal Corporation, South Delhi Municipal Corporation
2. Community Led development projects under Unnat Bharat Abhiyan.

Policy/Affiliations:

1. Through vision & mission of the University & individual departments quality education and women empowerment through STEM education
2. ISO certification for ensuring Quality education
3. University is moving towards interdisciplinary campus by introducing new courses (like Management, Urban Planning, etc.) in 2019-20 academic year
4. UGC 12B status granted and AICTE affiliations to various programs at IGDTUW
5. Promotion of Scholarships especially for Women

Co-Curriculum Activities: Hosting of annual Technical (Innerv) & Cultural (Taarangana) festivals attracting large number of footfall.

University Infrastructure:

1. Renovation & Upgradation of Architecture Department, Library and Exam Division
2. Fully wifi enabled University
3. Upgradation of various labs

4. Purchase of software

GOAL 5: Gender Equality

Course Content: Taught as a part of the course Women & Sustainable Development (at graduate) and Sustainable development (at postgraduate level).

Course Transaction: Ideation & Documentation of Implementation of Sustainable solution developed through academic intervention for SARI Village, Uttarakhand addressing issues of migration, livelihood, youth empowerment, disaster management, gender empowerment, adaptive reuse, sustainable food and energy production.

University Outreach: Student Clubs conduct various activities in schools like street plays, debate, quizzes, etc. on regular basis focussing on capacity building of Girl Child.

Projects: Consultancy project for UNICEF on Gender and Climate Responsive WASH in Schools & Anganwadi.

Policy/Affiliations:

1. The Founding Principle of University is about Gender Equality and Women Empowerment through STEM Education
2. Promotion of Scholarships especially for Women

Co-Curriculum Activities

1. Regular activities on Yoga, Menstrual Hygiene are held in the University
2. Self-defense workshops for Women organised in collaboration with Delhi Police On quarterly basis for mental and physical well being
3. Annual Sports meet held

University Infrastructure: Incubation Centre established to promote and encourage innovation & entrepreneurship amongst women researchers & professionals.

GOAL 6: Clean Water and Sanitation

Course Content:

1. Courses focussed on Water sensitive city planning (at postgraduate level) and Building Services (at graduate level).
2. Taught as a part of the course Women & Sustainable Development (at graduate) and Sustainable development (at postgraduate level)

Course Transaction: Cost effective & sustainable Sanitation Techniques taught under Water Supply and Sanitation course

University Outreach: Sensitisation of school students done through community outreach under Unnat Bharat Abhiyan through Government schools in Delhi NCR region on water conservation and its efficient use

Projects: Consultancy project for UNICEF on Gender and Climate Responsive WASH in Schools & Anganwadi

University Infrastructure:

1. Rain Water Harvesting
2. Access to clean drinking water ensured
3. Irrigation of University ground using treated grey water as a water conservation method

GOAL 7: Affordable and Clean Energy

Course Content:

1. Energy efficient systems taught under the course Building Services (at graduate level) covering Illumination and Electrical Services, HVAC.
2. Taught as a part of the course Climatology, Women & Sustainable Development (at graduate level) and Sustainable development (at postgraduate level).

Course Transaction: Solar Passive Designing is an integral part of Architectural Design studio for B.Arch Students.

University Infrastructure:

1. Energy efficient light fixtures in University campus.
2. 5% of energy demand met through solar panels.

GOAL 8: Decent Work and Economic Growth

Course Content:

1. Taught as a part of the course Women & Sustainable Development (at graduate) and Sustainable development (at postgraduate level).
2. Innovation in curriculum development by devising of new courses like Emerging Phenomena & Architecture, Urban Informatics & Analytics and Strategic Design Thinking which promotes entrepreneurial skills and knowledge about new emerging fields.

Course Transaction:

1. Focus on Interdisciplinary curriculum through Choice Based Credit System (CBCS) for better employability of students.
2. Ideation & Documentation of Implementation of Sustainable solution developed through academic intervention for SARI Village, Uttarakhand addressing issues of migration, livelihood, youth empowerment, disaster management, gender empowerment, adaptive reuse, sustainable food and energy production.

Projects:

1. Start up business grants provided by IGDTUW-Anveshan Foundation. Total of nine companies formed and are functioning providing further employment opportunities.
2. Faculty members are engaged in various research projects

Policy/Affiliations:

1. The Founding Principle of University is about Gender Equality and Women Empowerment through STEM Education
2. Promotion of Scholarships especially for Women
3. Strengthening research environment among women professionals through research work in post graduation and PhD programme
4. Professional Development grant provided to Faculty

Co-Curriculum Activities: Entrepreneurship skills are groomed through many events organised by clubs and societies of students.

University Infrastructure: Incubation Centre established to promote and encourage innovation & entrepreneurship amongst women researchers & professionals.

GOAL 9: Industry, Innovation and Infrastructure

Course Content: Taught as a part of the course Women & Sustainable Development (at graduate) and Sustainable development (at postgraduate level).

Course Transaction: Ideation & Documentation of Implementation of Sustainable solution developed through academic intervention for SARI Village, Uttarakhand addressing issues of migration, livelihood, youth empowerment, disaster management, gender empowerment, adaptive reuse, sustainable food and energy production.

University Outreach: Real life exposure provided ensured through

1. Collaboration between University, Industry and Civic Agency. Examples- MOU with C-Balance, North Delhi Municipal Corporation, South Delhi Municipal Corporation, any other MOU
2. Community Led development projects under Unnat Bharat Abhiyan.

Projects:

1. Start up business grants provided by IGDTUW-Anveshan Foundation. Total of nine companies formed and are functioning providing further employment opportunities.
2. Faculty members are engaged in various research projects.

Policy/Affiliations:

1. Strengthening industry university link by permitting Final semester major project in B.Tech to be undertaken in Industry ensuring better learning outcomes.
2. Support from Industry to set-up various labs- CISCO, Fluor Daniel, Microsoft, Dell, etc
3. Focus on Interdisciplinary curriculum through Choice Based Credit System (CBCS) for better employability of students.

Co-Curriculum Activities: Entrepreneurship skills are groomed through many events organised by clubs and societies of students.

University Infrastructure: Incubation Centre established to promote and encourage innovation & entrepreneurship amongst women researchers & professionals.

GOAL 10: Reduced Inequality

Course Content:

1. All courses of B.Arch and M.Plan has emphasis of reducing inequality by promotive inclusive design approach.
2. Taught as a part of the course Women & Sustainable Development (at graduate) and Sustainable development (at postgraduate level).

Course Transaction: Integral part of Architectural Design and Planning Studio projects like fifth semester project is focussed on social inclusion, thesis projects like Paralympic Sports Complex, Humanising Prison Architecture for Women, Children's Hospital and Research Centre, Socio-Economic Development Centre for the, Visually and Locomotive Impaired, Women friendly Police Station, etc.

University Outreach: UBA program

Projects: University has adopted five villages in Delhi region and conducted household surveys to map socio-economic conditions. Based on the analysis, the University is exploring collaboration on income generation and livelihood programmes with NGOs like Hand in Hand, Oxfam, etc.

Policy/Affiliations:

1. Reservation in admission to various programmes for vulnerable sections of society (EWS, SC, ST, Kashmiri Migrants, PWD)
2. Promotion of Scholarships especially for Women
3. B.Arch and M.Plan programme with mission and vision focused on inclusive growth & development

GOAL 11: Sustainable Cities and Communities

Course Content: Courses focused on Sustainable Development like Disaster Management, Water sensitive city planning, Housing and Environmental Planning, Urban Heritage Conservation, and Sustainable development (at postgraduate level) and Women & Sustainable Development, Climatology, Building Services, Architectural Conservation, Emerging Phenomena & Architecture, Urban Issues, Urban Design and theme based Architectural Design studios focused on community issues (at graduate level).

Course Transaction:

1. Assignments/ Projects focused on real life issues pertaining to communities and cities- like preparation of Master Plan for Pataudi Town Haryana based on water sanitation, housing, gender issues, environment, clean water, urban design, demographics, socio-economic issues, mobility; preparation of Master Plan for Smart city- New Delhi Municipal Corporation area focused on Innovation and Technological Intervention in the domain of Urban Development;
2. Ideation & Documentation of Implementation of Sustainable solution developed through academic intervention for SARI Village, Uttarakhand addressing issues of migration, livelihood, youth empowerment, disaster management, gender empowerment adaptive reuse, sustainable food and energy production

University Outreach:

1. University has adopted five villages in Delhi region and conducted household surveys to map socio-economic conditions. Based on the analysis, the University is exploring collaboration on income generation and livelihood programmes with NGOs like Hand in Hand, Oxfam, etc.
2. Capacity Building Sessions for Senior Government Officials

Projects: Consultancy project for UNICEF on Gender and Climate Responsive WASH in Schools & Anganwadi

Policy/Affiliations: B.Arch and M.Plan programme with mission and vision focused on Sustainable cities and Community Lead development

University Infrastructure:

1. Energy efficient light fixtures in University campus
2. 5% of energy demand met through solar panels
3. Rain Water Harvesting
4. Irrigation of University ground using treated grey water as a water conservation method
5. Improving Green cover of Campus

GOAL 12: Responsible Consumption and Production

Course Content: Taught as a part of the course Women & Sustainable Development (at graduate) and Sustainable development (at postgraduate level)

Course Transaction:

1. Assignments/ Projects focused on real life issues pertaining to communities and cities- like preparation of Master Plan for Pataudi Town Haryana based on water sanitation, housing, gender issues, environment, clean water, urban design, demographics, socio-economic issues, mobility; preparation of Master Plan for Smart city- New Delhi Municipal Corporation area focused on Innovation and Technological Intervention in the domain of Urban Development;
2. Ideation & Documentation of Implementation of Sustainable solution developed through academic intervention for SARI Village, Uttarakhand addressing issues of migration, livelihood, youth empowerment, disaster management, gender empowerment, adaptive reuse, sustainable food and energy production

University Outreach: Sensitisation of school students done through community outreach under Unnat Bharat Abhiyan through Government schools in Delhi NCR region on water conservation and its efficient use

Projects: 1. Students projects like Waste management system using tech based platform, Package free dream- an alternative to food packaging, etc.

Policy/Affiliations:**Co-Curriculum Activities:**

1. ANTARGAT society promoting reuse of waste materials and recycling them into useful products like furniture, bags, etc.
2. ENACTUS, plus other societies

University Infrastructure:

1. Energy efficient light fixtures in University campus
2. 5% of energy demand met through solar panels
3. Rain Water Harvesting
4. Irrigation of University ground using treated grey water as a water conservation method
5. Improving Green cover of Campus
6. University is housed in the Heritage Campus promoting resource optimization and conservation

GOAL 13: Climate Action**Course Content:**

1. All courses of B.Arch and M.Plan has emphasis of climate resilient planning & design
2. Taught as a part of the course Women & Sustainable Development (at graduate) and Sustainable development (at postgraduate level)
3. Climatology subject taught at graduate level

Course Transaction:

1. Climatic analysis is mandatory for all Architectural Design studio assignments for first to fifth year B.Arch Programme
2. Climatic consideration for preparation of Master Plan is an essential step in pedagogy of Urban Planning. Part of every assignment of planning studio course

University Outreach:

1. FDP on Fair Conditioning- Training the Trainers on how climatic responsiveness can be integrated in course curriculum and

2. Consultancy project for UNICEF on Gender and Climate Responsive WASH in Schools & Anganwadi

Projects: Consultancy project for UNICEF on Gender and Climate Responsive WASH in Schools & Anganwadi

Policy/Affiliations:

1. B.Arch and M.Plan programme with mission and vision focussed on Climate responsive designing & planning.
2. MOU with Institutions working on climate responsive development Examples- MOU with C-Balance for training the trainers.

University Infrastructure:

1. Energy efficient light fixtures in University campus
2. 5% of energy demand met through solar panels
3. Rain Water Harvesting
4. Irrigation of University ground using treated grey water as a water conservation method
5. Improving Green cover of Campus
6. University is housed in the Heritage Campus promoting resource optimization and conservation

GOAL 14: Life Below Water

Course Content: Aspects related to this SDG are discussed as part of the course Women & Sustainable Development (at graduate) and Sustainable development (at postgraduate level)

GOAL 15: Life on Land

Course Content:

1. All courses of B.Arch and M.Plan has emphasis on promoting biodiversity
2. Taught as a part of the course Women & Sustainable Development (at graduate) and Sustainable development (at postgraduate level)

Course Transaction:

1. Site Analysis (including biodiversity studies) is mandatory for all Architectural Design studio assignments for first to fifth year B.Arch Programme

GOAL 16: Peace and Justice Strong Institutions

Course Content: Taught as a part of the course Women & Sustainable Development (at graduate) and Sustainable development (at postgraduate level)

Policy/Affiliations

1. To look into the issues of students & faculty various Committees are formed. Examples Anti-Ragging Committee, Grievances Committee, etc.
2. Time bound redressal of complaints ensured through ISO process

GOAL 17: Partnerships to achieve the Goal

Course Content: Taught as a part of the course Women & Sustainable Development (at graduate) and Sustainable development (at postgraduate level)

University Outreach:

1. Partnerships with Government Girls Schools establishing connect with the villages adopted under Unnat Bharat Abhiyan.

2. Partnership with Delhi Police for training of officers
3. Partnership with Industry- C-Balance, Cisco, Microsoft, Fluor Daniel
4. Partnership with NGOs- Hand in Hand, Oxfam under Unnat Bharat Abhiyan

Projects: Real life exposure provided ensured through

1. Collaboration between University and Civic Agency. Examples- MOU with Municipal Corporations of Delhi,
2. Community Led development projects under Unnat Bharat Abhiyan.
3. Consultancy project for UNICEF on Gender and Climate Responsive WASH in Schools & Anganwadi
4. Industrial Training & Internships at prestigious organisations like TCPO, Govt. of India, South Delhi Municipal Corporation, NGO's.

University Infrastructure: Incubation Centre established to promote and encourage innovation & entrepreneurship amongst women researchers & professionals