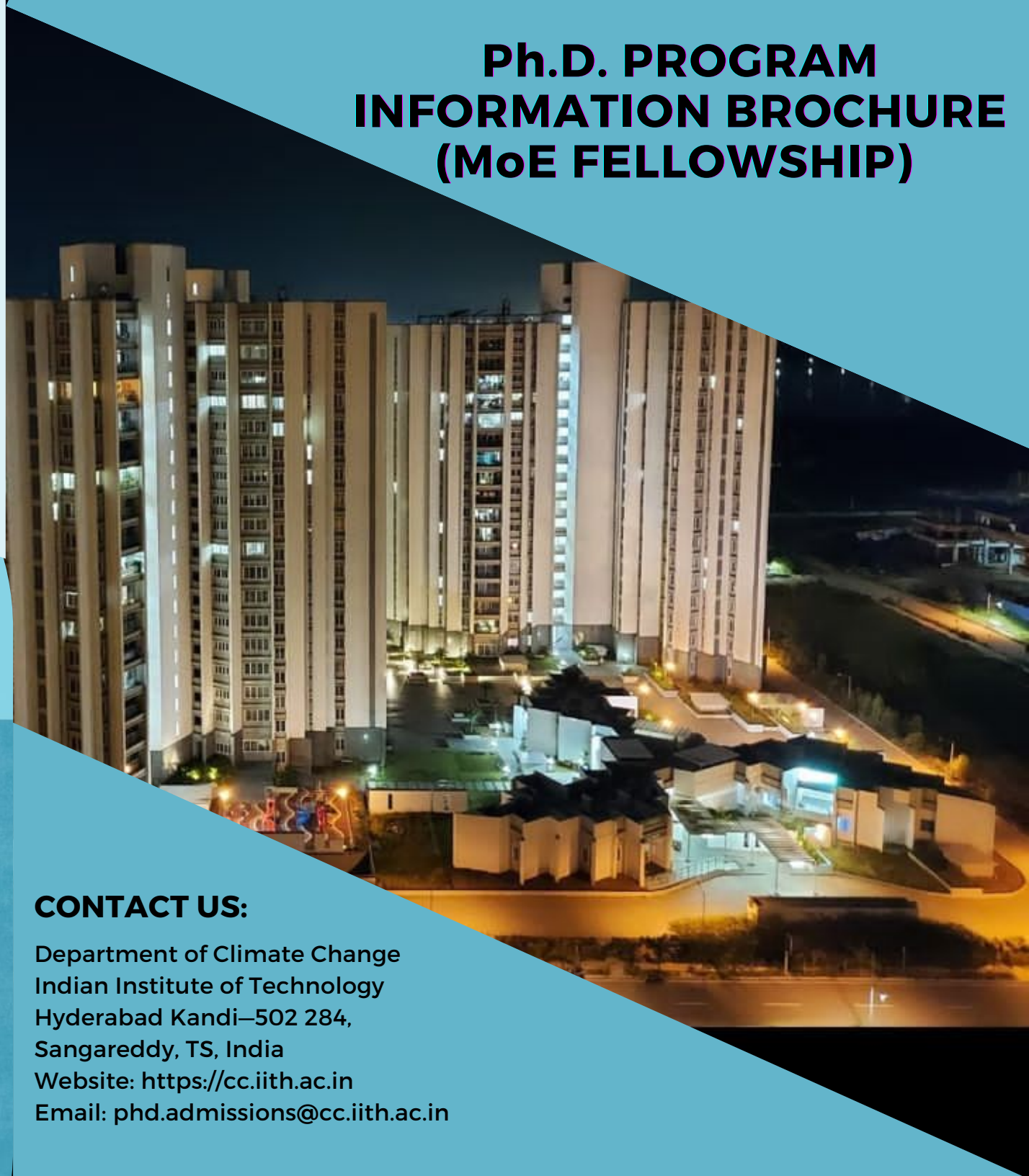
भारतीय सांकेतिक विज्ञान संस्थ हैदराबाद
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

DEPARTMENT OF CLIMATE CHANGE

Ph.D. PROGRAM INFORMATION BROCHURE (MoE FELLOWSHIP)



CONTACT US:

Department of Climate Change
Indian Institute of Technology
Hyderabad Kandi–502 284,
Sangareddy, TS, India
Website: https://cc.iith.ac.in
Email: phd.admissions@cc.iith.ac.in

About Program

Ph.D. in Climate Change (CC) is being offered from academic year 2020-2021 in the Department of Climate Change.

About Department

The Department of Climate Change at IIT Hyderabad integrates academic and practical knowledge by bringing together a diverse array of stakeholders, including scientists, engineers, policy researchers, practitioners, and students in order to develop a holistic understanding of Climate Change.

Our innovative interdisciplinary curriculum involves a mix of core and elective courses, an industry lecture and seminar series by leading experts, focus group discussions, field visits, and a research thesis to provide cutting-edge education in the area of Climate Change.

Research Thrust

Climate Change Modeling
Climate Change Impact Measurement
Climate Change Mitigation
Climate Change Policies

Program Requirement

Total program duration is five years. Candidates with prior M.Tech/M.Des/M.Arch degree will have to complete 12 course credits, candidates with M.Sc must complete 18 course credits and direct B. Tech candidates must complete 24 course credits within the 1st year. Candidates must secure a CGPA of 7.0 or above in the courses and pass the comprehensive viva to continue the program. The courses to be taken are decided on consultation with program supervisor. The Ph.D. program is considered complete on successful defense and submission of the Ph.D. research thesis and publication of at least two Scopus-indexed original research articles. The evaluation of research progress is done by the doctoral committee.

Faculty Research Areas

- Sustainable Development
- Renewable Energy Technology
- AI & ML Applications in Climate Change
- High-Performance Computing
- Climate Adaptation
- Climate Impact
- Climate Extremes
- Urban Studies
- Climate & WRF Models
- Satellite And Radar Rainfall Estimation
- Emissions Modelling
- Scaling Up & Efficiency of Simulations
- Parallelization
- 3D & 4D Variation Assimilation
- Biofuels
- Carbon Capture Utilization and Storage
- Design For Sustainability
- Life Cycle Analysis
- Resource Recovery from Waste
- Waste Management

Admission Procedure Eligibility

Eligibility:
M.Tech/M.Sc/M.Arch/M.Des in any discipline. The candidate should have cleared national eligibility tests UGC NET/GATE/CEED/CSIR etc. Candidates with B.Techs from IITs, NITs and other Centrally Funded Institutes are eligible for direct PhD admission if their CGPA is above 8.0. Selection will be based on written test/interview.

How to Apply

Interested Candidates should fill in the application form at https://iith.ac.in/phdadmissions on or before the deadline. Further details can be seen in https://cc.iith.ac.in/admissions.html

Results

List of selected candidates will be released after selection.
Selected applicants will be communicated through emails
The list will also be made available in departmental webpage
The applicants should ensure the accuracy of the email address provided and check their email regularly for updates

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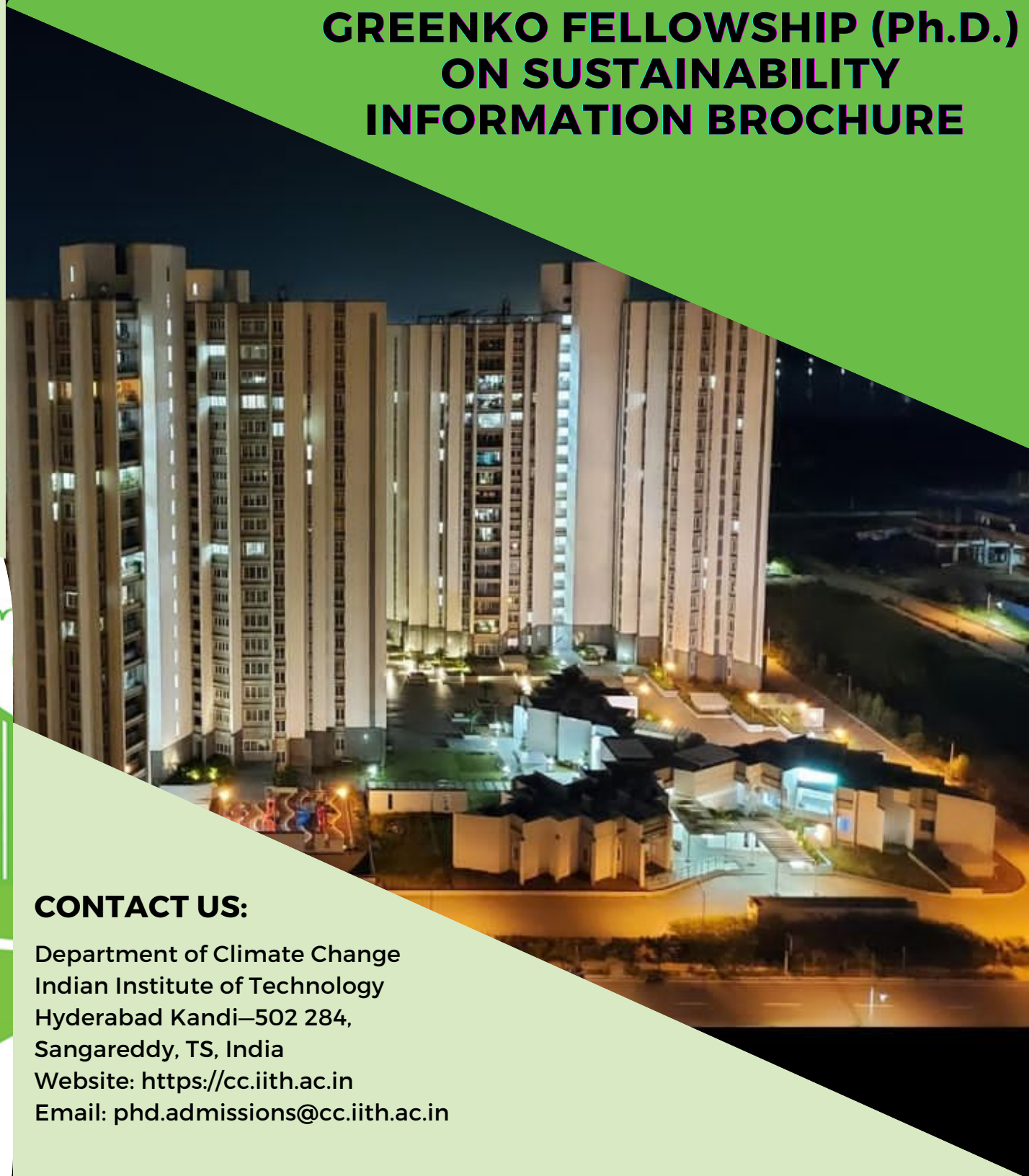
DEPARTMENT OF CLIMATE CHANGE

GREENKO FELLOWSHIP (Ph.D.) ON SUSTAINABILITY INFORMATION BROCHURE



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About Program

GreenKo School of Sustainability Science and Technology (GSSST) and the Department of Climate Change at IIT Hyderabad is floating the PhD scholarship program on Sustainability Science and Technology for highly motivated scholars (both Indian and foreign nationals). The selected candidates will

- Receive a stipend of Rs. 75,000 per month
- Receive contigency support of Rs. 3,00,000 per year
- Possibility of research exchange with foreign univerities.

About Department

The Department of Climate Change at IIT Hyderabad integrates academic and practical knowledge by bringing together a diverse array of stakeholders, including scientists, engineers, policy researchers, practitioners, and students in order to develop a holistic understanding of Climate Change and Sustainability. The Department is currently a part of the newly inaugurated IITH-GreenKo School of Sustainability which aims to promote research, education and awareness on the core themes of Sustainable Energy Transitions, Circular Economy, Green Chemistry and Sustainable Materials, Industrial Ecology, Sustainable Water and Food Systems and Climate Change Mitigation.
Our innovative interdisciplinary curriculum provides cutting-edge education in the area of Climate Change and Sustainability Science and Technology.

Research Thrust Areas

Climate Change Mitigation, Renewable Energy and Energy Storage, Green Hydrogen, Carbon Capture Utilization and Storage, Climate Change Impact Measurement, Sustainable Energy and Materials, Circular Economy, Sustainable Mobility and Built Environment, Sustainable Water and Food Systems, Green Chemistry

Course Curriculum

The total program duration is five years. Candidates with prior M.Tech/M.Des/M.Arch degree will have to complete 12 course credits, candidates with M.Sc/M.A./M.Phil must complete 18 course credits and direct B. Tech candidates must complete 24 course credits within the 1st year. Candidates must secure a CGPA of 7.0 or above in the courses and pass the comprehensive viva to continue the program. The courses to be taken are decided on consultation with program supervisors. The Ph.D. program is considered complete on successful defense and submission of the Ph.D. research thesis and publication of at least two Scopus-indexed original research articles. The evaluation of research progress is done by the doctoral committee.

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- Biofuels
- Carbon Capture and Utilization
- Design For Sustainability
- Life Cycle Analysis
- Resource Recovery from Waste
- Waste Management

Admission Procedure Eligibility

Eligibility: (Indian Citizens)
M.Tech/M.Sc/M.Arch/M.Des/M.A./M.Phil in any discipline. The candidate should have cleared national eligibility tests UGC NET/ GATE/ CEED/ CSIR etc.
Candidates with B.Techs from IITs, NITs and other Centrally Funded Institutes are eligible for direct PhD admission if their CGPA is above 8.0.
B.Techs from other institutes are also eligible for direct entry if they have a CGPA of 8.5 or above and a valid GATE score in the relevant subject.

Eligibility: (International Applicants)
Foreign Nationals (except OCI/NRI) with excellent academic qualifications having a master's degree in Engineering / Technology/Science in the relevant disciplines and minimum CGPA of 8.0 on a 10-point scale or equivalent. The candidates must have completed Bachelors or Masters degree in a foreign university.
Selection will be based on written test and/or interview.

How to Apply

Interested Candidates should fill in the application form at https://iith.ac.in/phdadmissions/ on or before deadline. Further details can be seen in https://cc.iith.ac.in/admissions.html

Results

The candidates will be selected through a rigorous selection process and their performance will be reviewed annually for continuation of fellowship
List of selected candidates will be released after selection. Selected applicants will be communicated through emails.The list will also be made available in departmental webpage. The applicants should ensure the accuracy of the email address provided and check their email regularly for updates