

Bachelor of Technology

in Climate Change

4-year, full-time,
undergraduate engineering
programme



Anant National University



Anant National University, India's premier design university, is dedicated to training students to devise solutions for global problems. Anant follows the DesignX pedagogy, where 'X' is the symbol drawn from mathematics, representing enhancement. This new learning approach multiplies traditional design pedagogy with liberal arts disciplines, emerging technologies and knowledge drawn from hands-on community experiences to help understand our world better and to devise impactful solutions.

Our multidisciplinary undergraduate, postgraduate and doctoral programmes in design, architecture, climate action and visual arts harness knowledge from various disciplines and traditional practices to integrate it with cutting-edge technology to address diverse challenges. We train our designers to become solutionaries — revolutionary thinkers with a solution-oriented mindset.

Anant National University has been recognised as the Centre of Excellence by the Government of Gujarat, highlighting our efforts to provide our students with world-class education, innovative pedagogy, high employability and enhanced entrepreneurial and research opportunities. Anant has also received the prestigious '5-Star Rating' in the category of Architecture and a '4-Star Rating' in the University category in the Gujarat State Institutional Rating Framework (GSIRF) 2023-24. These recognitions reinforce our commitment to creating a world-class institution of great eminence and excellence.



Anant School for Climate Action



The Anant School for Climate Action at Anant National University is dedicated to climate education, offering comprehensive sustainability-focused undergraduate and postgraduate programmes.

The BTech in Climate Change programme is a specialised engineering programme dedicated to climate change and technologies. The programme equips students to design and implement technology-driven solutions across energy, infrastructure, policy, business and research - spanning sectors that are central to the global climate transition.

The programme combines core engineering foundations with climate science and systems thinking, and is delivered through applied research and project-based learning in collaboration with industry, government and research institutions. This approach enables students to develop interdisciplinary competence while maintaining technical depth.

Through a progressive curriculum that builds breadth in the early years and depth through focused specialisations, students develop the technical competence and interdisciplinary perspective required to contribute to the \$23 trillion climate economy globally.

Programmes Offered



**Bachelor of Technology in
Climate Change**



Anant Fellowship for Climate Action



**Anant Fellowship in Sustainability
and Built Environment**

Leadership

"The world is heading towards a climate crisis. The world's most vulnerable populations will be the most severely affected by it. To mitigate this, industries across sectors, including us at Piramal Group, realise that the industry needs to adapt production processes and products to be climate resilient. There are also increased international and national regulatory pressures on industries to measure, disclose and improve business parameters that impact climate change. There are, therefore, great opportunities for technological advancements. However, where are the skills to do this? Anant has been a pioneer in climate education by offering India's first and only Bachelor of Technology in Climate Change and Anant Fellowship for Climate Action."



Mr Ajay Piramal
President, Anant National University
Chairman, Piramal Group



"India forms the frontline of the changing climate. Home to some of the oldest (and largest) human populations anywhere, the country also has an impeccable record of surmounting grave challenges and greater adversity. Our specialised climate studies programme trains students to conceive ingenious solutions and develop innovative technologies to adapt to and mitigate climate change in India and the larger developing world."

Dr Sanjeev Vidyarthi
Provost, Anant National University



For individuals determined to create technology-driven solutions for climate change.



Looking for a career in climate technologies and their application in industry, government and advanced research.



To become engineers adept to solve issues related to climate change.

Do you recognise yourself in this? Please apply to join the Bachelor of Technology in Climate Change!

Bachelor of Technology in Climate Change

4-year, full-time, undergraduate engineering programme

The BTech in Climate Change programme equips students with the skills, knowledge, and expertise to develop technology-driven solutions to climate change problems at both local and global levels.

The first and only undergraduate degree in climate change in India gives students the opportunity to become a part of the \$23 trillion climate economy. The comprehensive curriculum, blended with engineering tools and design thinking principles, practical application-oriented learning and collaborations with industry and government research laboratories, makes this course unique.

This multidisciplinary programme has been designed to foster innovation in climate technologies, as students gain proficiency in using engineering tools and applying design thinking principles through a hands-on, practical learning experience to create technology solutions for climate change.

About the programme

The programme combines new-age learning approaches with an engineering programme pedagogy. The students learn to build technology solutions for mitigating or adapting to climate change, use specialised software for simulating climate impact and be part of live industry projects at the Climate Lab from the day they join. They have the opportunity to specialise in using climate technologies for business or policy, as well as gain a deeper specialisation in climate change itself.

The curriculum is designed such that Semesters 1 - 6 offer incremental steps across 8 climate change streams along with an applied research project in the Climate Lab each semester. The final 2 semesters offer students the opportunity to take courses they might have not been able to complete or take earlier and focus on specialisation and then full industry immersion.



Emphasis on industry experience



Leveraging design thinking for creating technology solutions for climate change



Climate Lab

Year 1	Year 2	Year 3	Year 4
Incremental steps in 8 streams (detailed below), Climate Lab applied research projects, internship and industries projects			Specialisation and industry experience

Focus on student driven research

The Anant School for Climate Action is involved in research through its research centre, the Anant Centre for Sustainability, a think-teach-do tank that focuses on climate action, affordable housing, sustainable materials and industrial ecology and building a sustainable education campus at Anant.



Anant Climate Lab

Anant School for Climate Action is India's first school to introduce a Climate Lab, providing a unique learning and research platform for students and faculty. The laboratory is equipped with modern infrastructure, comprising a wide range of advanced instruments and the latest climate and environment-related software solutions and instruments (non-exhaustive).

- SimaPro (Life Cycle Assessment Software)
- AutoCAD 2026
- ArcGIS
- SolidWorks Education Edition 2018-19
- SimClimat
- AspenTech
- QGIS
- Automated weather stations
- Piezometric sensor
- Tipping bucket rain gauge
- Solar radiation measuring instrument
- Hybrid microgrid laboratory
- Cup anemometer and vane anemometer
- Thermo-hygrometer with radiant screen sensors
- Thermoelectric pyrhelimeter
- Atmospheric attenuation and electric field simulation
- Hybrid microgrid laboratory – testing set up for combined performance under variable load condition
- UV-Visible Spectrophotometer
- Forced Convection Heat Transfer Apparatus

Climate engineering tools

Semester 1 and 2

Semester 1 and 2, or Foundation Year courses, introduce students to climate change and technical drawing. They gain expertise in climate engineering tools and are introduced to key concepts such as earth and space system evolution, biogeochemical cycles, basics of geo-engineering, climate finance asset management, climate and energy, amounting to coursework of 20 credits, of which 4 credits are attributed to applied research projects in the Climate Lab.

Application

Semester 3 and 4

Students learn to apply the tools they have gained expertise in the previous semesters. They also gain an understanding of meteorology and atmospheric sciences, pollution aquatic systems, solar-terrestrial relations, financial products origination and environmental policies. They are introduced to behavioural sciences and learn to leverage design thinking for innovative solutions in climate action.

While the aforementioned course work amounts to 20 credits, 4 credits continue to be attributed to applied research projects in the Climate Lab. Students have the opportunity to receive international exposure through opportunities such as attending massive open online courses (MOOCs) offered by MIT, USA and availing micro-grants awarded from MIT, USA.

YEAR 3

Technology solutions for climate change

Semester 5 and 6

Equipped with tools and having learnt to apply them to climate solutions, students now focus on creating technology solutions for climate change through courses amounting to 20 credits. They learn to make climate predictions, conduct space weather modelling and build and scale up clean energy technologies. They are encouraged to understand the context of developing economies and create technology solutions especially adapted to these regions.

Continuing with the emphasis on industry experience, 4 credits are attributed to applied research projects in the Climate Lab during Semester 5 and 6 as well.

YEAR 4

Specialisation

Semester 7 and 8

In Semester 7, students choose and pursue 20 credits of specialisation training in any of the following 3 areas: climate in business, climate policy and innovation in climate technologies.

In Semester 8, every student is assigned to an industry project. They work on live climate change projects within external organisations, co-guided by an academic and industry partner. This exposure ensures a seamless transition for students from university to the professional world.

International immersions



The Villars Institute, Switzerland

Anant National University is Asia's first university to partner with the Villars Institute, one of the world's most acclaimed institutions that focuses on investing in young people (13 - 19 years of age) to accelerate the transition to a net-zero economy and restore the health of the planet for all of its inhabitants.

The Villars Institute is a platform for systemic change and a place for intergenerational collaboration. As a curator of artistic, cultural and sports activities, the institute promotes biodiversity, planetary health and sustainable development.

Four students from Anant School of Climate Action were accepted as Villars Fellows in 2023, 2024 and 2025.

Two 2nd-year BTech students were selected for fully funded participation in the Villars Intensive Programme on Ecopreneurship, Switzerland. They participated in the Villars Institute at Villars-sur-Ollon in Switzerland.

Learn more about the Villars Institute here <https://villarsinstitute.org/>.

The urgent need for engineers specialising in climate technologies



Estimated size of the global climate industry opportunities expected in 2030 is **\$23 trillion**.



22.4% growth in the share of job postings on LinkedIn requiring **green skills** in 2022-23.



24 million new jobs are expected to be created globally for the greener economy by 2030.



Indians employed in **clean energy sectors increased by 47%** in 2021-22.



India to create **3 million*** renewable energy jobs by 2030 and **50 million jobs**** representing upwards of a \$15 trillion economic opportunity by 2070.

*International Financial Corporation

**World Economic Forum, 2021

How can technology mitigate climate change?

Technology plays a pivotal role in addressing climate challenges. It enables us to measure, simulate and predict climate scenarios, while also reducing greenhouse gas emissions and capturing carbon across industries.

Technologies underpin renewable energy sources like wind, solar and hydropower and drive innovations in climate repair, air quality improvement and energy efficiency. Most strategies for mitigating or adapting to climate change rely heavily on such advancements, highlighting their essential role in building a sustainable future.

Career opportunities

In recent years, there has been a huge surge in demand for climate engineers. Yet, the supply of talent is very limited. Approximately 120,000 people globally, and less than 5,000 people in India, are formally trained to adequately cater to the \$23 trillion global climate industry opportunities expected in 2030.

According to the International Finance Corporation (IFC), India and Bangladesh are expected to attract \$2.5 trillion worth of opportunities related to climate-resilient infrastructure. IFC projects that India alone has the potential to create 3 million renewable energy jobs by 2030.

The World Economic Forum also supports the tremendous scope for jobs in the climate industry by forecasting that India's transition to a green economy could potentially create 50 million jobs by 2070, representing a \$15 trillion economic opportunity.

Eligibility to apply

Passed 10+2 examination with Physics/ Mathematics/Chemistry/ Computer Science/ Electronics/ Information Technology/ Biology/ Informatics Practices/ Biotechnology/ Technical Vocational subject/ Agriculture/ Engineering Graphics/ Business Studies/ Entrepreneurship.

Required documents

- **Letter of motivation**

The letter should answer these questions: Why do you want to join the programme? What are your interests and experiences related to climate action, environment, sustainability?

- **Curriculum vitae**

Your resume should help us know who you are outside the classroom as well.

- High school marks/grades of Classes X, XI and XII. If Class XII examination results are not out, results of 1st semester/ pre-board examination will be accepted.

Admissions for the batch of 2026-30 are now open.

To apply, click [here](#)

There are 8 streams through Semester 1—6.

Each stream will have 6 incremental steps across 6 semesters.



Climate simulation



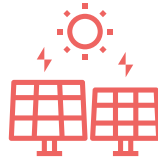
Engineering mathematics



Environmental engineering



Climate chemistry



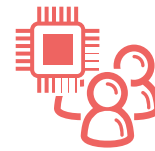
Energy and technology



Climate finance



Design thinking and behavioural science



Technology and society

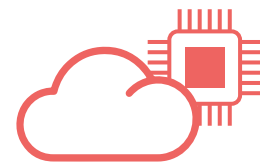
In Semester 7, the students get 20 credits of specialisation by choosing from the following:



Climate in business



Climate policy



Innovation

In Semester 8, students get 16 weeks of experiential learning with an industry partner on climate projects.



Know More About Your Faculty



Dr C N Tripathi

Professor and Academic Director, Anant School for Climate Action

Dr C N Tripathi holds a PhD in Geophysics (Climate Change) from Banaras Hindu University, Varanasi. He also earned an MSc (Tech) degree in Geophysics (Meteorology) and a Bachelor of Science from the same institution.

With a professional career spanning over 28 years, Dr Tripathi has extensive experience in climate change and its associated challenges. His proficiency encompasses the utilisation of regional climate simulation to evaluate the impact of climate change on agriculture and water resources in India. He is also adept at implementing technologies for climate change mitigation and adaptation in both rural and urban contexts. Notably, he played a pivotal role in key projects related to “Global Warming and India’s Food Security” and the “Development of GIS Based Integrated Watershed Management Decision Support System” while serving as a Senior Project Scientist at the Department of Civil Engineering, Indian Institute of Technology, New Delhi.

Beyond his research pursuits, Dr Tripathi has exhibited exceptional proficiency in teaching BTech, MTech and guiding PhD students, having held positions as Professor, Associate Professor, and Assistant Professor at different institutions. He significantly contributed to shaping the curriculum for the Bachelor of Technology in Environmental Engineering as a member of the Board of Studies of Civil and Environmental Engineering at Dr APJ Abdul Kalam Technical University, Lucknow. Furthermore, his adeptness in academic administration is evident through various leadership roles, including Head of Department of Environmental Engineering, Coordinator of the Skill Development Programme and Member of the Proctorial Board, among others during his previous affiliation.

Dr Tripathi’s scholarly contributions are widely recognised, with over 55 research papers published in esteemed national and international journals and conferences. He is an avid contributor to articles in various newspapers and magazines, particularly in the area of climate action. Additionally, he serves as a valued reviewer for distinguished journals such as “Water Resources Management” by Springer Publications and “Cogent Engineering” by Taylor and Francis publishing house.

Outside of academia, Dr Tripathi has demonstrated a fervent commitment to environmental awareness. He has organised programmes for society outreach, particularly focusing on farmers and hosted numerous conferences and training programmes centred around climate change and environmental management. His multifaceted contributions exemplify a profound dedication to advancing knowledge and practices in the field of climate change. Presently, Dr Tripathi holds the positions of Professor and Academic Director at the Anant School for Climate Action.



Dr Rohan Dutta

Associate Professor and Director,
Anant School for Climate Action

Dr Rohan Dutta is an Associate Professor for the BTech programme at the Anant School of Climate Action.

Dr Dutta received a BTech(H) in Instrumentation Engineering from Haldia Institute of Technology, in 2003 and a PhD from the Indian Institute of Technology Kharagpur, India, in 2014. Before starting his new venture, he was a Postdoctoral Fellow at the Institute for Plasma Research Gandhinagar and at the Indian Institute of Technology Kharagpur, India. He worked for nearly 11 years in various academic institutes and industries, pre- and post-PhD including a postdoctoral position at the Department of Energy and Process Engineering, Norwegian University of Science and Technology, Trondheim, Norway. His research interests include Waste to Power, Process Modelling and Simulation, Cryogenic Processes, Fossil Fuel-based Power Plant and methods for CO₂ capture from them and Cryogenic/Thermal Energy Storage.

He has published more than 35 research papers in international/national journals, conferences and technical reports. Besides, he has one patent application filed in India and another application has been approved for funding for filing both in India and USA. As a teacher, Dr Dutta strives to foster the ideals of scientific method, investigation and scholarly inquiry so that his students can apply critical thinking skills to their activities outside of university. Furthermore, he wishes to encourage students to embrace initiative, self-confidence and originality in all of their pursuits.



Dr Naga Chaitanya Kavuri

Assistant Professor, Anant School for Climate Action

Dr Naga Chaitanya Kavuri's academic journey is marked by a relentless pursuit of knowledge and a passion for environmental engineering. A PhD from the National Institute of Technology, Rourkela, his research has led to

ground-breaking advancements in understanding ambient aerosols, particularly in industrial areas. Dr Kavuri's significant achievements include pioneering work in source apportionment and forecasting ambient aerosols, as well as extensive contributions to publications in reputable journals. His leadership in managing research projects and mentoring undergraduate students underscores his commitment to academic excellence and the advancement of environmental science.

Dr Kavuri's research methodology integrates mathematical modelling, experimental studies and data analysis techniques, allowing for comprehensive insights into environmental phenomena. With a pedagogical approach rooted in mentorship and hands-on learning, he fosters an environment of academic excellence and innovation. His commitment to

sustainable practices underscores his dedication to finding practical solutions to environmental challenges, making him a valuable resource in environmental engineering. At Anant, Dr Kavuri is deeply involved in teaching BTech students about Climate Technology. He also actively contributes to the development of research laboratories for the Anant School of Climate Action programme. He wishes to continue his research endeavours while nurturing a spirit of curiosity and innovation among students. He also hopes to inspire them to become good researchers and successful entrepreneurs, contributing meaningfully to the field of climate technology.

Dr Kavuri has a mix of academic and real-world experience. Before joining Anant, he worked as Associate Dean at K L University, where he helped set up systems to manage waste effectively, leading to the university winning awards for being clean and green. As an Assistant Professor there, he published many research papers and built connections with industries for student internships. He also founded and led companies like Ishavasya Solutions Pvt Ltd and worked as a COO at Arthashastra Intelligence Data Bases Pvt Ltd, showing his ability to turn research ideas into practical solutions. His varied experiences show his dedication to finding new and useful ways to solve problems.



Dr Vikranth Volli

Assistant Professor, Anant School for Climate Action

Dr Volli holds a PhD in Chemical Engineering from the Indian Institute of Technology, Guwahati, a Master's degree from the National Institute of Technology Rourkela, and a BTech from Jawaharlal Nehru Technological University, Hyderabad.

He has extensive academic and professional experience, having served as an Adhoc Assistant Professor at NIT Andhra Pradesh, Associate Professor at Kalasalingam University (KARE), Tamil Nadu, Assistant Professor at the National Yunlin University of Science and Technology (YunTech), Taiwan, and Assistant Professor (Senior) at VIT University, Vellore.

Dr Volli's research focuses on thermal behaviour, oxidative stability, hydrothermal carbonization (HTC) and hazard assessments of commercial oils, ester-based lubricants and ionic liquids. His work also includes the production of liquid biofuels from lignocellulosic biomass using pyrolysis and developing value-added products and catalysts from industrial wastes like red mud and fly ash for biodiesel production. He has published extensively in prestigious journals such as Fuel, Science of the Total Environment and the Journal of Hazardous Materials.



Dr Snehal Jani

Associate Professor, Anant School for Climate Action

Dr Snehal Jani holds a PhD in Nanoscience and Nanotechnology from Mohanlal Sukhadia University, Rajasthan, an MSc in Physics, and a BSc from Bhavnagar University, Gujarat. She has over 10 years of experience in

research and teaching and has published more than 35 SCI/SCOPUS-indexed research articles.

Her research focuses on bridging nanotechnology and sustainable innovations to address environmental challenges, including nanomaterials for environmental remediation and dosimetry, nano-magnetism and spintronics materials and sustainable technologies for metal waste and the circular economy. At ASCA, Anant National University, her ongoing projects include developing CuO and FeO nanoparticles for industrial wastewater treatment, passive cooling innovations using BaSO₄ nano-paint and bioleaching of metal nanoparticles from solar waste. Key achievements include the INSA Visiting Scientist Award (2023), the Young Scientist Award (2017), government-funded research projects, patents and certification as a Radiation Safety Officer by AERB, BARC. She has contributed as a guest editor and reviewer for leading scientific journals and is a lifetime member of the Magnetic Society of India. Select recent publications include contributions to *Astronomy and Computing* (2024), *Crystal Research and Technology* (2024), and *Wiley* (2023).



Dr Het Shah

Assistant Professor, Anant School for Climate Action

Dr Het Shah, Assistant Professor at the Anant School for Climate Action, is a dynamic mathematician and academic whose journey is defined by an enduring passion for

mathematical research and pedagogy. His expertise spans multi-objective optimisation and computational finance, and his scholarly contributions are reflected through publications in Scopus-indexed proceedings and active participation in international conferences.

Dr Shah's current research interests lie in the broad field of nature-inspired and bio-inspired metaheuristic algorithms, with a focus on their application to diverse engineering optimisation problems.

He holds a PhD in Applied Mathematics from the prestigious Indian Institute of Technology Roorkee, where his research has made significant strides in evolutionary computation, particularly in solving Modern Portfolio Theory problems using metaheuristic algorithms.

Dr Shah's academic philosophy blends conceptual clarity with real-world application. He

emphasises a learner-centric approach, using practical problem-solving and critical thinking to bridge the gap between abstract mathematical theory and everyday challenges. His dedication to education was evident during his tenure at SKIPS University, where he taught Business Mathematics, Discrete Mathematics, and Statistics for Data Science, inspiring students with both rigour and relevance.

Beyond teaching, he played a key role in academic administration and research dissemination. He managed over 300 research submissions during the 12th International Conference on Soft Computing for Problem Solving (SocProS 2023), showcasing his organisational acumen. His experiences as a teaching assistant at IIT Roorkee further honed his mentorship abilities, especially in guiding MTech and Pre-PhD students in advanced mathematical topics.

An advocate for continuous growth, Dr Shah has participated in elite programmes like the GIAN course on multi-objective optimisation at IIT Kanpur and the MTTs summer schools at HRI Allahabad and ICT Mumbai. He aims to bridge theoretical mathematics with real-world applications and continues to mentor students while pursuing impactful interdisciplinary research.



Dr Palash Dhara

Assistant Professor, Anant School for Climate Action

Dr Palash Dhara, Assistant Professor at the Anant School for Climate Action, got engaged in various interdisciplinary projects related to soft matter, surface and interfacial science, mesoscale structure generation through thin film instability, thin film drainage, etc., during the different courses of his research career.

At Anant, Dr Dhara wants to explore his expertise in creating micro or nanopatterned surfaces by utilising instability-mediated surface patterning, soft-lithography techniques, etc. Such surface engineering offers powerful ways to tailor substrate wettability and enable a range of biomedical applications, from bio-fabrication to anti-biofouling and antibacterial surfaces. He is particularly interested in creating structurally superhydrophobic substrates and hybrid surfaces with varying wetting regions, which hold exciting potential for studies on self-cleaning materials, fog harvesting, water vapour condensation, and more.

Before joining Anant, he completed his postdoctoral tenure at Stanford University, USA. His postdoctoral research at Stanford University focused on studying bubble-solid interaction and the complex drainage behaviour of entrapped liquid films between solid substrates and air bubbles in water and aqueous suspensions of colloidal particles. He was also a postdoctoral fellow at IIT Gandhinagar, where he successfully developed enzyme-tagged biofunctionalised self-propelled microscopic active motors and studied their dynamics under various conditions.

Dr Dhara earned a PhD from the Indian Institute of Technology Kharagpur. His PhD research was recognised with the prestigious 'Shah-Schulman Award' for the best PhD thesis in the area of colloid and interface sciences for 2022, by the Indian Institute of Chemical Engineers (IICChE). He was also awarded multiple scholarships (GATE Scholarship, MHRD Fellowship, etc.) and travel grants for attending national and international conferences and science meetings (MRS Fall Meeting 2016, Boston, MA, USA).



Dr Sharadbala Joshi

Senior researcher

Dr Sharadbala Joshi, an architect and planner, has over 35 years of experience in facilitating inclusive and community-centred slum upgrading, redevelopment and resettlement.

Dr Joshi has conducted research on initiatives that have resulted in sustainable improvements in informal settlements, including assisted self-help housing, community-led resettlement initiatives in Sri Lanka, Mongolia, East Africa, slum-networking initiatives in Indore, Vadodara and Ahmedabad and on affordable housing initiatives in Ahmedabad. After completing her training in architecture at CEPT, Ahmedabad, Dr Joshi got an MSc in Human Settlements Development from the Asian Institute of Technology, Thailand and a PhD from Loughborough University, UK.



Dr Ashima Sood

Associate Professor, Director, Centre for Urbanism and Cultural Economics

Dr Ashima Sood is an Associate Professor at Anant. She has been a Visiting Professor at the Institute of Political Economy at Carleton University and an Urban Studies Foundation International Fellow and Visiting Research Fellow at the University of Oxford Department of International Development.

Her current teaching and research interests lie at the intersections of urban studies, development studies and public policy, speaking to the themes of sustainable cities and communities. She also contributed the section on Indian Urbanisation to the Oxford Bibliographies on Urban Studies.

A co-edited volume entitled "India's Greenfield Urban Future: The Politics of Land, Planning and Infrastructure" has been published with Orient BlackSwan. Dr Sood earned her MA in Economics at the Delhi School of Economics and PhD Economics at the Cornell University Department of Economics.



Prof Milind Chitale

Associate Professor, School of Design and
Director, Makerspace

Milind Chitale, the Associate Professor and Director, Makerspace, has extensive knowledge of Mechanical Engineering, Product Design, Materials and Processes and Design for Manufacturing and allied fields including Robotic Assembly.

A Mechanical Engineer from NIT Jamshedpur with a Post-Graduation in Industrial Design from the IIT Bombay, Prof Chitale also holds a Post Graduate Diploma in Plastics Engineering from Central Institute of Plastics Engineering and Technology, Chennai, an Executive Diploma in Management from XLRI, Jamshedpur and a Certificate course in Mechatronics from Japan International Cooperation Agency (JICA), Japan.

Professionally, Prof Chitale has more than 30 years of experience, of which more than 20 years have been with various large and small industries from India and abroad. His industrial experience is in Research and Development and New Product Development and Introduction (NPD). He has worked in the Heavy Industry, Electronic Instrumentation and Packaging and Medical Devices industries, gaining a tremendous wealth of knowledge and understanding of the diverse range of technologies and production processes.

Along with an industry background, he also has a solid 15 years of teaching experience, of which 13 years have been in India and 3 years abroad.



Academic / Education partners

The Anant School for Climate Action has developed partnerships with leading institutions and universities around the world.

The Anant School for Climate Action works with Sustain Lab Paris, an enterprise based in India, the UAE and New Zealand, to train students to become high-potential climate solutionaries and support them with placements. The other leading academic partners from across the world include the Villars Institute, Switzerland; Commonwealth Secretariat, London, UK; Initiatives of Change (IofC), UK; UNICEF; Earthday.org. Students, right from year 1, also secure internship placements at these reputed institutions.





The Commonwealth

The Commonwealth Secretariat

The Commonwealth Secretariat, headquartered in London, UK, is the pivotal intergovernmental organisation of the Commonwealth. Students from the Anant School for Climate Action (Cohort 2022-26) actively engaged in internship projects at the Secretariat. During this internship, students covered critical areas such as climate action, youth engagement, agriculture, forestry and the Africa regional stocktake meetings. During this engagement, students learnt about global challenges, contributed to international efforts to address them and gained unparalleled experience in driving change and innovation.

Students involved in this internship engagement: Pareeta Agrawal, Tanya Batra, Harsh Chandurkar and Prisha Kakade



From left to right: Harsh Chandurkar, Pareeta Agrawal, Prisha Kakade and Tanya Batra



The Villars Institute

The Villars Institute, launched as a pioneering nonprofit foundation, is dedicated to spearheading the transition towards a net-zero economy and rejuvenating the planet's vitality for every inhabitant. Situated in the serene Swiss Alps, the institute serves as a catalyst for systemic change, offering a collaborative platform for individuals from diverse generations to unite in their quest for a sustainable future.

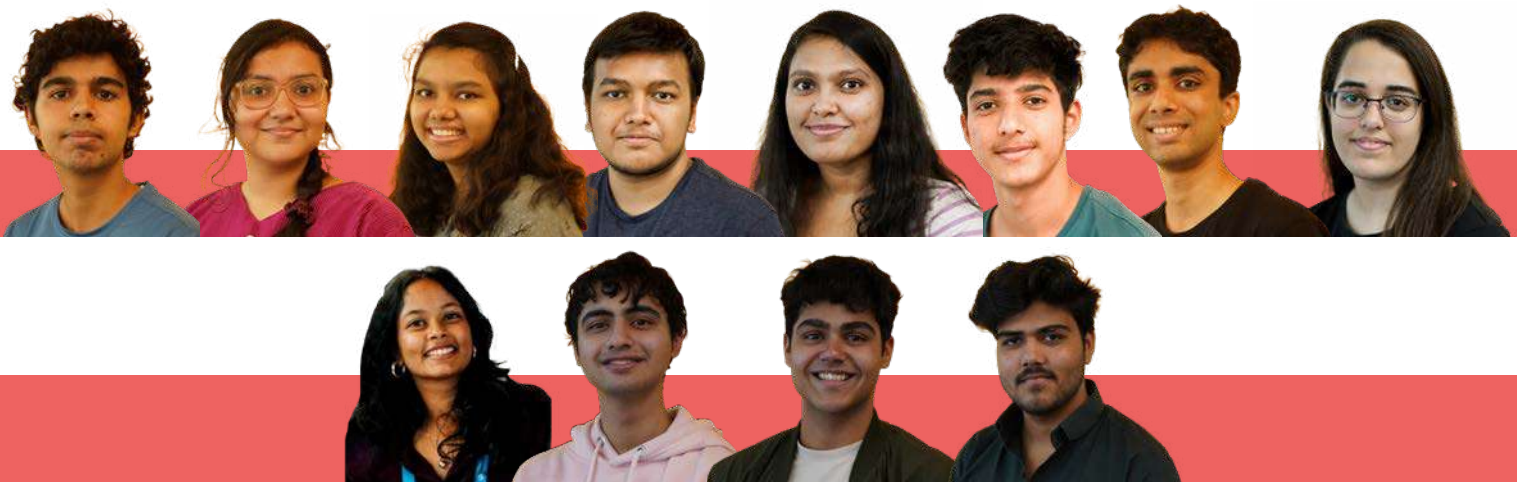
Among its initiatives in promoting biodiversity, planetary health and sustainable development is the Villars Fellowship, an exclusive programme that invites students from the Anant School for Climate Action. This fellowship offers an excellent educational journey, focusing on three pivotal themes: the transition to a net-zero carbon emissions economy, the development of nature-based solutions for the welfare of people and the planet and the exploration of emerging technologies for new growth opportunities.

Each year, Villars Fellows are granted the unique opportunity to engage with eminent experts and seasoned professionals across various fields.

Students (BTech, Class of 2026) involved in Villars 2023 Fellowship: Shaleen Guleria, Tanya Batra, Riya Gupta and Pratham Rawat.

Students (BTech, Class of 2027) involved in Villars 2024 Fellowship: Srijan Shahane, Kavya Iyer, Mahek Parikh and Ashmit Sharma.

Students (BTech, Class of 2028) involved in Villars 2025 Fellowship: Arvika Singh, Dhruv Bhatt, Yash Chaudhary and Divyansh.



From left to right: Ashmit Sharma, Kavya Iyer, Mahek Parikh, Pratham Rawat, Riya Gupta, Shaleen Guleria, Srijan Shahane, Tanya Batra, Arvika Singh, Dhruv Bhatt, Yash Chaudhary and Divyansh.



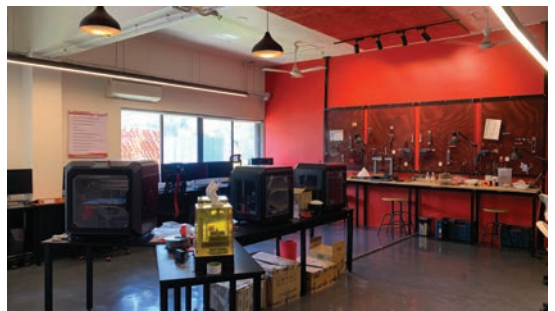
Skill Development Institute, Ahmedabad

BTech in Climate Change students gain hands-on training in the renewable energy sector through their applied research course, guided by experts from Aspire Disruptive Skills Foundation, the Skill Development Institute's training partner. The foundation specialises in skill development for sectors like manufacturing, renewable energy, electronics and hydrocarbons, enhancing technical proficiency and preparing students for real-world applications. Through the applied research programme of the Anant School for Climate Action, students engage in hands-on training in the renewable energy sector, guided by the institute's experts. This training enhances technical proficiency and prepares students for practical applications.



Earthday.org

Earthday.org and the Anant School for Climate Action partnered to commemorate Earth Day on April 22, embracing the theme "Invest on our Planet." Through this collaboration, students, faculty and staff participate in an annual community awareness initiative, engage in discussions on climate action and sustainability. Students become involved in environmental education and advocacy and with the combined efforts with Earthday.org, we nurture young climate warriors, poised to lead impactful climate action and drive meaningful change.



Testimonials



Pursuing this course was a leap of faith for me and it is indeed proving to be beneficial. It is innovative and is relevant to the time. I am receiving exceptional exposure. The faculty here is supportive and encouraging. They make the learning experience interesting and help us come out of our comfort zone.

- Riya Gupta, BTech, Class of 2026



In this course, you get knowledge of conventional core engineering subjects along with other interesting courses which you won't find in any other college in our country. Hands-on practical experience is considered more vital than simple textbook learning. The personal mentorship you get here from the professionals to stand out in the industry is remarkable.

- Pratham Singh V Rawat, BTech, Class of 2026



It's a now-or-never scenario today in the case of climate change. The world needs enthusiasts and doers, who in turn need knowledge and a thorough understanding of the situation at hand. This programme is an opportunity to learn, master and apply the skills and knowledge under the guidance of professors working in the field.

- Pareeta Agrawal, BTech, Class of 2026



I am a proud father of an attendee of the BTech Programme in Climate Change at Anant School for Climate Action. I am glad that our daughter opted for this programme and eventually was selected through the rigorous screening process. We see a lot of dedication and innovation going into this prestigious programme which is unique, and not only provides a good and upcoming career option for our child at the same time also connects them to the bigger cause of saving mother earth. The international perspective brought in by the programme director and faculty also makes this programme one of the best in the world. We as parents are excited to see the holistic growth of our daughter in terms of open thinking, great education and sustainability-centric behaviour within the first year in this programme.

- Parent of Tanya Batra, BTech, Class of 2026

Annual tuition fee

₹ 2,75,000

The university provides boarding and lodging facilities, subject to a separate fee.

Scholarships

Up to 100%* scholarships are offered to deserving candidates on a merit-cum-need basis. Once selected, the candidate can approach the Anant School for Climate Action for the scholarship form and submit the duly filled form along with required documents to support their application.

Scholarships are available for limited seats only. Candidates are advised to apply for the programme and scholarship well in advance of the admission deadline.

*% of scholarship will be calculated post the submission of form and documents.

Contact

If you have any queries, please send an email to climatetech@anu.edu.in.

Contact number : +91 635 216 0465



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Programmes offered at Anant National University

Bachelor of Design

Majors

- Communication Design
- Interaction Design
- Space Design
- Sustainable Fashion and Textile Design
- Product Design
- Moving Image
- Transdisciplinary Design

Minors

- Graphic Design
- Furniture Design
- Product Design
- Health and Wellbeing
- Immersive Design
- Play and Game Design
- Fashion Communication
- Moving Image
- Entrepreneurship and Startups
- Visual Art

Bachelor of Architecture

Bachelor of Visual Arts

Bachelor of Technology in

Climate Change

Master of Design (Interior Product Design)

Fellowships

- Anant Fellowship in Sustainability and Built Environment
- Anant Fellowship for Climate Action

Doctoral Programme

- Built Environment
- Design Excellence
- Creative Practices

Centres

- Aarambh Incubation Centre
- Bloom Centre for Wellbeing
- Anant Centre for Sustainability
- Centre for Moving Image
- Centre for Visual Arts
- Centre for Public Policy Research and Design
- Anant Centre for Documentation and Development of Crafts
- International Centre for Inclusive Cultural Leadership
- Centre for Behavioural Science and Design
- Centre for Urbanism and Cultural Economics
- Writing and Communication Studio
- Centre of Design Education
- Centre for Urbanism and Cultural Economics
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