ANURAG UNIVERSITY

# SDG-17 PARTNERSHIPS FOR THE GOALS



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# SDG 17: Partnerships for the goals

## Collaborations with NGOs, Govt. Bodies, and Global Universities in Support of Sustainable Development Goals (SDGs)

Anurag University recognizes partnerships and collaboration as important to advancing sustainable development and addressing shared social, economic and environmental challenges. The University engages with academic institutions, research organizations, government bodies, industry, non-governmental organizations and community organizations to facilitate knowledge exchange, research, education and community engagement.

These collaborations provide opportunities for students and faculty to interact with external organizations, share expertise, undertake joint activities and gain exposure to diverse perspectives and practices. They also support the University's efforts to connect academic and research capabilities with community needs and broader development priorities.

The University's engagement extends across national and international collaborations. These include partnerships supporting research and innovation, public health, environmental sustainability, community development, experiential learning and capacity building. International collaborations also provide opportunities for knowledge exchange, joint activities and participation in wider networks focused on sustainable development.

The University's partnership activities are closely connected with several Sustainable Development Goals. Collaborations with NGOs and community organizations support social and community-oriented initiatives, research partnerships contribute to innovation and knowledge creation, while international academic collaborations strengthen opportunities for global knowledge exchange and joint action.

Anurag University embeds sustainability, social responsibility, and ethical engineering at the core of its academic framework by integrating SDG-oriented learning across all engineering programmes. A key component of this commitment is the mandatory “Joy of Engineering” course, introduced for all first-year engineering students irrespective of discipline, from 2024. This experiential foundation course builds critical observation skills, encourages social immersion, promotes environmental awareness, and nurtures design

thinking and innovation. This is a completely student volunteering activity focused on finding solutions for societal challenges including environmental issues.

The university also has NSS (National Service Scheme), which focuses on community service and social development, and NCC (National Cadet Corps), a uniformed youth organisation focused on discipline, leadership. These are yet another demonstration of student volunteering led sustainable initiatives.

Through continued engagement with its partners, Anurag University seeks to strengthen cooperation, share knowledge and expertise, create opportunities for students and faculty, and contribute collectively to the achievement of the Sustainable Development Goals.

## Partnerships and Collaborations

Anurag University has developed partnerships with academic institutions, research organizations, government institutions, non-governmental organizations and community-oriented organizations. These collaborations provide platforms for research, knowledge sharing, student learning, capacity building, community engagement and the development of solutions to real-world challenges.

The University's partnership ecosystem includes both national and international collaborations. While individual partnerships have different areas of focus, they collectively contribute to strengthening academic and research capabilities, connecting the University with wider communities and networks, and supporting activities related to the Sustainable Development Goals.

## Collaborations with NGOs, Educational Institutions, Govt. Bodies & Other Institutions

### a) Indian NGOs & Govt. Bodies

| # | Organisation | MoU Validity | Key Focus Areas |
|---|---|---|---|
| 1 | Lepra Society | 03.11. 2027 | Education, Training, Research |
| 2 | Good Universe | Perpetual validity | Outreach, Research, Advocacy & Policy |

| | | | |
|---|---|---|---|
| 3 | Council of Scientific and Industrial Research (CSIR) - Central Scientific Instruments Organisation (CSIO), Chandigarh, Govt. of India | 13.12. 2029 | Joint Research |
| 4 | Council of Scientific and Industrial Research (CSIR) - Indian Institute of Chemical Technology, Govt. of India | 21.03.2027 | Education, Training, Research |
| 5 | National Mission for Clean River Ganga, Ministry of Jal Shakti, Govt. of India | 11.04.2026 | Water Conservation & Awareness |
| 6 | National Remote Sensing Centre (NRSC), Department of Space, Govt. of India | 09.12.2030 | Outreach and capacity building in space technology & applications |
| 7 | Rural Economic and Educational Development Society (REEDS) | Perpetual validity | Research and Development; Community Engagement and Empowerment |
| 8 | Participatory Rural Development Initiative Society (PRDIS) | 21.02.2027 | Agricultural extension in rural areas |
| 9 | MSN Blood Centre | 31.03.2030 | Donation & Blood management |

## b) Indian Universities

| # | Organisation | MoU Validity | Key Focus Ares |
|---|---|---|---|
| 1 | Sri Konda Laxman Telangana Horticultural University | 29.09.2027 | Capacity Building in Agriculture, Joint Research, and Student Exchange |

## c) Foreign Institutions (Signed before 2025)

| # | Organisation | MoU Validity | Key Focus Areas |
|---|---|---|---|
| 1 | City University of New York | 28.09.2027 | Climate Change |
| 2 | Purdue University – EPIC | 31.03.2025 | Community Development |

## d) Foreign Institutions (Signed in 2025)

| # | Organisation | Key Focus Areas |
|---|---|---|
| 1 | National Chung Cheng University, Taiwan R.O.C | Global Education, Student Internship, Faculty Exchange, etc. |
| 2 | Myongji University, Seoul, Republic of Korea | Student/Faculty exchange, Joint research and seminars, Exchange of Academic information. |
| 3 | National Taipei University, New Taipei City, Taiwan | Academic progress, physical relocation and cultural orientation for all exchange students, faculty and researchers. |
| 4 | Woosong University, Daejeon, Republic of Korea | Exchange of Staff, Students, scientific materials, Publications and information, cultural activities, joint conferences and academic programs, research activities and publications. |
| 5 | CBS University of Applied Sciences / CBS International Business School, Germany | Study abroad programs, double degree programs, exchange of faculty, publications, joint research, teaching projects. |
| 6 | Epitech European Institute of Technology, France | Exchange of Students |
| 7 | OTH Regensburg, Germany | Collaboration for faculty and staff for research, lectures, discussions and other academic pursuits. |

LEPRA
x Registered as LEPRA Society



ANURAG UNIVERSITY

## MEMORANDUM OF UNDERSTANDING (MoU)

This MoU is made on this 4th Nov. 2022 at **Anurag University**

BY and BETWEEN

M/s **Lepra Society** is a non-governmental organization (NGO) established in the year 1989. Lepra's vision is to be a leader in reducing the incidence and impact of leprosy and other neglected diseases. The programmatic converge extends to 25 districts across 7 states, Andhra Pradesh, Bihar, Chhattisgarh, Delhi, Jharkhand, Madhya Pradesh, Odisha and Telangana states. The strategic priorities are 1)empowering the people they work with 2)promoting equity for women and children 3) strengthening public health systems and provision of direct services and 4)Fostering research and Innovation. It is having its registered office at Cherlapally, Hyderabad Telangana, INDIA hereinafter referred to as "**Lepra Society**" (which expression shall wherever the context so admits include its successors in interest, liquidators, administrators and permitted assignees) of the **First Part**

AND

**ANURAG UNIVERSITY**, a Private University located at Venkatapur (V), Ghatkesar Mandal, Hyderabad, Telangana 500088, hereinafter referred to as "**AU**" (which expression shall wherever the context so admits include its successors in interest, liquidators, administrators and permitted assignees) of the **Second Part**

WHEREAS all the parts are hereinafter referred to as "**Parties**";

AND WHEREAS, the parties by this MoU desire to establish common framework to facilitate in terms of exchange of information, material, to execute other agreements as may be necessary for the Projects, R&D, Skill Development, Training Programs and Placements.

NOW THEREFORE, in consideration of the promises and mutual covenants hereinafter contained, the Parties hereto agree as follows:



Sameera Tallam
4/11/22

ANURAG UNIVERSITY

## 1. OBJECTIVES OF THE MOU

The objective of this Memorandum of Understanding is:

- To promote interaction between **Anurag University** and **Lepra Society** in mutually beneficial areas.
- To perform Academic related activities between **Anurag University** and **Lepra Society**.
- To transfer knowledge to Lepra Society and its clients in the form of technical solutions.
- To carryout R&D and consultancy projects between **Anurag University** and **Lepra Society**

## 2. PROPOSED MODES OF COLLABORATION

- The technical representative of "**Lepra Society**" may be the member of Board ofStudies, School of Engineering, Anurag University.
- "**Lepra Society**" will review the technical material related to student curriculum in thearea of ENGINEERING and advice for any changes, if necessary.
- "**Lepra Society**" will update Anurag University faculty members of any latest technology/technological advancements.
- Allow students of Anurag University to carryout internship in the company, subjected to"**Lepra Society**" feasibility.
- "**Lepra Society**" will advise Anurag University on the theme and technology to be usedin Student Project in the area of ENGINEERING.
- "**Lepra Society**" will work as mentor to Anurag University faculty members in Researchprojects related to ENGINEERING.

## 3. TECHNICAL AREAS OF COLLABORATION

The principal technical areas of collaboration between **the AU** and **Lepra Society** will be as set out separately.

## 4. SHARING OF RESOURCES

The Parties shall share the required resources to propagate the Research Project, Training Programs and to meet the objectives in terms of this MoU.



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## 5. RIGHT OF USE

i. The background know-how/ IP of the Projects, Training program belongs to both the parties and can be used freely by the parties for execution of the project within the scope of their own objectives.

ii. Each party shall promptly make written disclosure to discuss and coordinate with one another in the aspects of Project IP, publication needs, and commercial exploitation of Project IP etc.

## 6. INDEMNITY

The Anurag University is responsible for technical aspects of the project where as Lepra Society shall supervise and guide its implications among beneficiaries. Both the parties shall be equally responsible for health, safety and Security, of any person, organization or company engaged by which ever party or its agencies because of this agreement.

## 7. LIABILITY AND SAFETY

Anurag University and Lepra Society will ensure safety, prevent and reduce risks, errors and harm that occur to patients during provision of health care.

## 8. CONFIDENTIALITY

i. During the tenure of the MoU, all the Parties, undertake to maintain strict confidentiality and refrain from disclosure thereof, of all or any part of the information and data exchanged/generated from the Project for any purpose other than in accordance with this MoU. It shall be the responsibility of all the Parties to ensure maintenance of such confidentiality in respect of their behalf and on behalf of their employees, representatives and associates involved in the Project.

ii. The Parties shall not have any obligation of confidentiality with respect to any information that:

a. is in the public domain by use and/or publication at the time of its disclosure by the disclosing party; or
b. was already in possession of the recipient prior to receipt from the disclosing party; or
c. is properly obtained by the recipient from a third party with a valid right to disclose such information and such third party is not under confidentiality obligation to the disclosing party; or
d. was disclosed to any third party on a non-confidential basis prior to commencement of



Sameen Fatima
4/11/22

the Project; or

e. is required by public authority, by law or decree.

## 9. INTELLECTUAL PROPERTY

1. ***Force Majeure***

The Parties shall not be held responsible for non-fulfillment of their respective obligations in successful completion of the Project under this MoU due to the exigency of one or more of the *force majeure* events such as but not limited to acts of God, war, flood, earthquakes, strikes not confined to the premises of the Party, lockouts beyond the control of the Party claiming *force majeure*, epidemics, riots, civil commotion etc. lying beyond the reasonable control of and not brought about at the instance of the Party claiming to be affected by such event and which has caused the non-performance or delay in performance; provided on the occurrence and cessation of any such event the Party affected has given a notice in writing to the other Parties within one month of such occurrence or cessation.

2. **Validity and Termination**

i. The MoU shall be effective from the date of its signing by all the Parties. The MoU shall be valid for valid for 5 years.

ii. The Parties may renew/terminate this MoU by mutual agreement.

3. **Alterations**

Any alteration and amendment to this MoU shall be made in writing by all the parties involved

4. **Transferability of Rights and Duties**

Rights and Duties in this MoU cannot be transferred to third party either in whole or in part, without the prior written consent of the other parties.

5. A separate **'Governing/Steering committee'** for project monitoring in between principal applicant and collaborator(s) may be constituted.

6. **Dispute Resolution and Governance**

The parties agree to use reasonable endeavors to amicably settle any dispute arising among them in relation to the execution of the Project. (Arbitration provisions may be added).

The MoU shall be governed by the Laws of India.

7. **Notices**

Notices shall be sent to the contact person at the address as set forth below or such address



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as any party shall have furnished to the parties.

IN WITNESS WHEREOF the Parties hereto through its duly authorized representatives have signed this MoU on the day, month and year mentioned hereinbefore.

LEPRA SOCIETY Telangana India SECUNDERABAD-26

**Parties** - Authorized Signatory

PRASANTA KUMAR NAIK
Chief Executive
LEPRA Society

For and on behalf of M **"Lepra Society"**

**Name:** **Prasant Kumar Naik** **Designation: Chief Executive**

**Witness 1:** **Witness 2:**

For and on behalf of **"ANURAG UNIVERSITY"**

4/11/22

**Name:** **Prof Sameen Fatima** **Designation: Registrar**

REGISTRAR
ANURAG UNIVERSITY
Venkatapur (V), Ghatkesar (M),
Medchal (Dist).

ANURAG UNIVERSITY

# MEMORANDUM OF UNDERSTANDING

Between

**GOOD UNIVERSE, HYDERABAD**

And

**ANURAG UNIVERSITY, HYDERABAD**

This Memorandum of Understanding (MoU) entered into and executed on 18 September, 2024 between

GOOD UNIVERSE, having its office at Lumbini Avenue, Gachibowli, Hyderabad, Telangana 500032, India.

**And**

ANURAG UNIVERSITY, Hyderabad, Telangana is a university situated in Venkatapur. Ghatkesar, Medchal-Malkajgiri district, Hyderabad, Telangana, India. 500 088

GOOD UNIVERSE is a youth-led non-governmental organization founded in 2015, working at the intersection of gender equality, health, and climate resilience. Their mission is to build sustainable, inclusive communities by addressing social and environmental inequalities through participatory, action-driven interventions. In the sphere of health and well-being, they provide outreach on physical, mental, and sexual/reproductive health, along with sanitation, affordable menstrual and reproductive-health practices, and mental-health support — especially for underserved communities. On environmental sustainability and climate-change, Good Universe advocates for climate-resilient practices, clean water/air initiatives, sustainable waste-management and waste-segregation, energy, recognizing that climate stress disproportionately affects vulnerable populations. Through workshops, training programs, awareness campaigns, and collaborations with diverse stakeholders — including individuals, government institutions and communities — Good Universe is committed to creating a just, healthy, and resilient society.

Whereas the ANURAG UNIVERSITY, established in 2020 is a university in the State of Telangana. The Institution currently offers 15 Undergraduate Programs, 10 Postgraduate Programs and 9 Doctoral Programs through its Schools of Engineering. Management, Pharmacy, Agriculture and Medical Sciences. It has the objective to provide facilities and promote studies in emerging areas of higher education on the frontiers of science, technology, and management education. In pursuance of the objective, the Institute has been endeavouring to develop closer relationship with the non-governmental organisations so that the synergy between academics and NGO world can be reaped to the fullest extent.

Kamal

**PREAMBLE**

The Good Universe and Anurag University recognize their shared interests in research, education, and the dissemination of knowledge, particularly in the fields of Health, Education, Gender Equality, Water, Sanitation, Climate Action, Energy, Sustainable Cities & Communities and related areas. This Memorandum of Understanding (MoU) seeks to establish a long-term collaboration between the two parties, aiming to promote joint research activities, internships, placements, community development and social service. Both institutions are committed to enhancing the NGO-Academia partnership through initiatives such as joint research projects, consultancy, contract research, extension activities, community development and other mutually beneficial activities. Through this agreement, Good Universe and Anurag University aim to strengthen their collaboration in agriculture, rural development, renewable energy, extension, training, capacity building and related areas, in alignment with their shared goals and interests.

**ARTICLE 1: PRINCIPLES OF COOPERATION**

Good Universe and Anurag University agree to collaborate and further their efforts based on the principles of mutual understanding, convenience, shared interests, and complementary activities.

1. Promote individual contacts: Facilitate interactions among scholars, students, and personnel of both Good Universe and Anurag University to foster collaboration and knowledge sharing.

2. Maximize expertise and facilities: Provide opportunities for both staff and students to leverage the expertise and facilities available in both organizations, through training, exchanges, seminars, workshops, extension, training, capacity building, and brainstorming sessions.

3. Joint research efforts: Collaborate on common research interests and projects at both national and international levels to contribute to advancements in relevant fields.

4. Exchange of materials: Support the exchange of academic, research, and training materials to enhance learning, research, and development.

5. Administrative and management expertise: Share experiences and expertise in institutional administration and management practices to strengthen both organizations.

6. Encourage other mutually beneficial activities: Facilitate other collaborative activities that both organizations agree upon for their mutual benefit, including joint programs or specific research areas.

7. Submit joint research proposals: Good Universe and Anurag University will jointly submit research/grant proposals of mutual interest to government and non-government agencies for funding support.

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ANURAG UNIVERSITY

8. Seek international research funding: Both institutions will collaborate to submit developmental proposals to international agencies for funding support

9. Develop Technology Transfer Mechanisms: Good Universe and Anurag University will establish a well-defined mechanism for transferring technology resulting from joint research initiatives. Any intellectual property (IP) arising from such collaborative research will be jointly owned by both parties and the benefits derived from these patents will be shared in mutually agreed-upon proportions, as specified in a separate, detailed agreement. This collaboration will be governed by the Intellectual Property Rights (IPR) policies of Anurag University.

10. Other Collaborative Activities: Good Universe and Anurag University will also engage in additional research and collaborative activities, including but not limited to seminars, workshops, extension activities, training, capacity building, consultancy projects, and the development of research data and facilities in areas such as Health, Education, Gender Equality, Water, Sanitation, Climate Action, Energy Sustainable Cities & Communities, and related areas, all for the mutual benefit of both parties.

**ARTICLE II: AREAS OF COOPERATION**

1. Training and Capacity Building: The Parties will collaborate to organize workshops. seminars, extension activities, training, capacity building, and training programs aimed at enhancing skills and knowledge in Health, Education, Gender Equality, Water, Sanitation, Climate Action, Energy, Sustainable Cities & Communities, and related areas. The focus will be on building local capacity and promoting sustainable development in rural areas.

2. Research and Development: The Parties will work together on research projects to identify the needs of rural communities, develop practical solutions, and assess the impact of rural development initiatives, particularly in Health, Education, Gender Equality, Water, Sanitation, Climate Action, Energy, Sustainable Cities & Communities, and community development.

3. Community Engagement and Empowerment: Programs will be designed to empower local communities, promote rural entrepreneurship, and create sustainable livelihoods, fostering social and economic resilience in rural regions

4. Resource Sharing and Collaborative Approach: The Parties will share resources, including knowledge, materials, and personnel, to improve project outcomes. increase efficiency, and strengthen the overall approach to rural development.

5. Advocacy and Policy Influence: Together, the Parties will advocate for policies that support rural development and sustainable agriculture, rural development, renewable energy, and related areas addressing systemic challenges at local, national, and international levels to foster a positive environment for rural growth.

6. Program Delivery and Monitoring: The Parties will deliver programs either virtually or in-person across multiple countries. Joint tools will be developed for monitoring and

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evaluating the effectiveness of programs, ensuring continuous improvement and mutual participation in program design and facilitation.

7. Volunteerism Opportunities: The parties will promote, support, and facilitate volunteerism among students and faculty. These efforts aim to provide practical experience, contribute to rural development initiatives, and ensure meaningful participation and impactful outcomes in their shared goals, missions, and visions.

**ARTICLE III: DURATION AND TERMINATION**

1. This MoU is effective as of the date of signatures by the authorities of Good Universe and Anurag University.

2. This MoU is valid from the Date of execution by the parties and shall remain in effect forever, unless it is terminated by either of the parties with 90 days' notice.

3. This MoU can be amended at any time if both parties agree in writing.

4. This MoU may be terminated by either party by the provision of written notice of termination not less than six months prior to the desired termination date. However, both parties agree that all continuing obligations to students, staff, funding bodies or other entities are met in full subsequent to the notice of termination.

5. The termination of this MoU will not affect any existing agreements or commitments made before the termination date.

6. If any disputes arise between the parties, both will make efforts to resolve them through amicable discussions and mutual agreement.

**ARTICLE IV: MISCELLANEOUS**

1. If any provision of this MoU is held by any court or other competent authority to be illegal, void, or unenforceable in whole or in part, this memorandum shall continue to be valid regarding the other provisions, and the remainder of the affected provision.

2. Nothing in this MoU constitutes or to be construed a party as the partner, agent employee or representative of the other party. A party must not act independently of the other party and does not have the right or power to commit the other party on any matter or incur any obligation on behalf of or pledge the credit of the other party without the prior written approval of the other party.

3. The parties agree to comply with all laws applicable within the jurisdiction of the signatories below.

4. Data generated through any collaborative work of the parties will be published jointly in scientific journals and on public platforms. Any intellectual property arising from joint

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intellectual input under a collaborative research/R&D project shall be held jointly through a separate agreement.

5. Each party hereto is entitled to make this arrangement/association known wherever necessary for furthering their respective objectives. Each party may suggest that its logo be used by their respective policies and procedures. Both organizations regularly offer information on activities for the other partner to disseminate via their respective communication channels.

6. For each specific assignment or initiative undertaken jointly or on behalf of the other, a separate letter of arrangement or agreement shall be executed between both parties. This document will define the scope of responsibilities for each party. along with the terms and conditions of the assignment or initiative, including details of any financial arrangements, if applicable.

IN WITNESS whereof, the parties hereto have executed this MoU or caused it to be executed in their names and on their behalf by their duly authorized representatives on the date set forth.

Kamal

Founder & CEO
for
Good Universe
18.09.2024
Hyderabad

Deputy Registrar
for
Anurag University
18.09.2024
Hyderabad

Witness:
Good Universe
Neloufer Tabassum
Co-Founder & COO

Anurag University
Dr. Narendar Singh
Associate Professor, ECE

# MEMORANDUM OF UNDERSTANDING

## BETWEEN

**ANURAG UNIVERSITY,**
Ghatkesar, Hyderabad, Telangana, 500088

**AND**

**CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION**
**(COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH)**
**SECTOR 30-C, CHANDIGARH-160 030**

**13th December, 2024**

This Memorandum of Understanding (MoU) is entered into on the 13th Day of December 2024 at Chandigarh.

This Memorandum of Understanding (MoU) sets for the terms and understanding between:

**BY and BETWEEN** : **(i)** Anurag University (AU), Hyderabad was established by the Telangana State university Act, 2020, and is spread across 93 acres of land. The university offers undergraduate, postgraduate, and doctoral programs in various fields such as science, engineering, management, pharmacy, medical, humanities, etc. The name of the university has been included in the list of universities established as per section 2(f) of the UGC Act.

**(ii)** Council of Scientific & Industrial Research (CSIR), a Society registered under the Societies Registration Act (XXI of 1860) having its Registered Office at Anusandhan Bhawan, 2, Rafi Marg, New Delhi-110 001 through its constituent laboratory Central Scientific Instruments Organisation (here-in referred to as **'CSIR-CSIO'**) represented by the Director, having its office at Sector-30C, Chandigarh-160030

The AU and CSIR-CSIO are hereinafter jointly referred to as "**Parties**" and individually as "**Party**".

## 1 PREAMBLE

1.1 WHEREAS, **Anurag University, (AU) Hyderabad** is committed to providing a world-class education to its students and preparing them for successful careers in their



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2.7 To undertake technology management and technology transfer related to research and development activities.

2.8 Any other areas of mutual interest.

## 3 AREA OF COOPERATION

3.1 The areas of cooperation will be defined and modified from time to time by the Coordination Committee set up for the purpose.

3.2 Each joint research project shall be governed by this agreement AND any additional MoU that will be agreed upon for the specific purpose of that joint research project. In addition to other issues, the additional MoU will specifically address issues relating to (i) IPR arising out of that joint research project (ii) publishing any research results and foreground information generated during the joint research to ensure that no proprietary information is released and that foreground intellectual property rights are not jeopardized (iii) preparing, filing prosecuting, maintaining of Intellectual Property Rights applications including patent applications covering research results and foreground information generated during the joint work (iv) financial arrangements, etc.

## 4 COORDINATION COMMITTEE

The following will constitute the Coordination Committee to monitor and review the collaborative program(s) between the two institutions:

(i) Vice Chancellor, AU or her nominee(s)
(ii) Registrar, AU
(iii) Director, CSIR-CSIO Chandigarh
(iv) BDG Representative, CSIR-CSIO Chandigarh
(v) Dr. Samir K. Mondal, Chief Scientist, CSIR-CSIO Chandigarh

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## 5 PROTECTION OF IPR

IPR generated as part of (a) research work of a Ph.D. student being co-supervised by CSIR-CSIO and AU Scientists/faculty members or (b) a joint research work as per clause 3 of this MoU. In the absence of an additional MoU as specified in clause 3.2, in broad terms, the IPR issues will be based on the following principles:

5.1 All research results and foreground information as well as foreground intellectual property rights, generated during the joint research work, whether or not legally projected, shall be owned jointly by AU and CSIR-CSIO.

5.2 AU and CSIR-CSIO shall consult each other before publishing any research results and foreground information generated during the joint research to ensure that no proprietary information is released and that foreground intellectual property rights are not jeopardized. Post consultation, any such publication proposal, shall be deemed approved in the event, there is no objection from the party seeking to oppose within a period of thirty (30) days of receipt of a content(s) of such a publication, both parties agree to suitably modify/ amend the content thereof to avoid disclosure of confidential information or patentable material. In any case, any party may delay publication till a period of ninety (90) days or the filing of a provisional application whichever earlier. AU and CSIR-CSIO shall confer and consult each other regarding preparing, filing prosecuting, maintaining Intellectual Property Rights applications including patent applications covering research results and foreground information generated during the joint work.

5.3 AU and CSIR-CSIO shall not disclose any research result and foreground information, generated during the joint research, to any third party without seeking prior written permission from each other. Any scientific information exchanged/shared between the parties for joint research/supervision will not be transferred to any third party without the consent of the parties.

## 6 TERMS OF COLLABORATION

6.1 AU and CSIO agree to enter into scientific project agreements on a case-to-case basis with pre-defined objectives, the scope of work and mutual obligations, terms &

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conditions, financial arrangements. Liabilities, Intellectual Property Rights, and similar contractual obligations.

6.2 So far as the involvement of any third party in the joint work is concerned, such third party involvement will be acceptable only when a letter from both parties is enclosed specifically expressing concurrence and an officer is identified by a name representing respective Institutes and specified as responsible for the specified project.

6.3 In case, either party wins a consultancy project by projecting this MoU, a liability is created immediately in respect of royalty/ premium due to either party. Either party shall concur with the liability. The exact amount of liability will be arrived at after mutual consent by both the parties based on DST/DSIR/MeitY etc. guidelines.

6.4 In case either party decides to permit the use of its equipment, facilities, manpower to the other for executing a project, the scope of such a project, cost estimates of the project, modalities of payment, and all other related aspects would be worked out jointly by AU and CSIR-CSIO through separate proposals as per DST/DSIR/Meity, etc. guidelines.

6.5 The papers emerging from mutually agreed joint research projects will be published jointly.

## 7 DISCLAIMER

This MoU is not intended by AU and CSIR-CSIO to constitute, create, give effect to, or otherwise recognize a joint venture, agency, partnership, or formal business organisation of any kind. Each party hereto shall act as an independent entity and neither shall act as an agent of either organisation for other purposes. Neither party has the authority to bind the other party.

## 8 NON-EXCLUSIVENESS

The agreement reflected by the provisions of this MoU is non-exclusive in nature and both the parties can enter into cooperative arrangements with other parties to suit their organisational needs.

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## 9 CONFIDENTIALITY

The parties understand that in the course of their association, they shall have access to confidential information provided by the other party. Accordingly, the parties agree that such information shall be maintained in the strictest confidence and trust, except such information which, by its nature, is not confidential or which is in the public domain or which the party comes to know about other than through violation of any law or legal obligation, provided that such party may be entitled to disclose such information if legally required to be disclosed to a Competent Authority. Failure to maintain confidentiality shall entitle the affected party to terminate the MoU.

## 10 PERIOD OF VALIDITY

The MoU would be valid for a period of **Five (5) years** from the date of signing by the parties. At the end of the validity period of the MoU, a fresh MoU with similar/modified terms may be considered for signing.

## 11 REVIEWING of MoU

The MoU shall be reviewed twice a year by both the parties and additions/deletions can be done with mutual consent.

## 12 TERMINATION

The MoU can be terminated by either party after giving one month's notice to the other party subject to fulfillment of commitments already agreed upon. The MoU constitutes the understanding between the parties hereto. Except as otherwise provided herein, no addition, amendment, or modification of this MoU shall be effective unless it is in writing and signed by both parties by their respective authorized signatories.

## 13 ARBITRATION

In the event of any dispute or difference between the parties hereto, such disputes or differences shall be resolved amicably by mutual consultation or through the good offices of empowered agencies of the Government of India.

In case of non-resolution of differences through mutual consultation, within ninety (90) days of the written notice of its existence given by either party to the other, then the matter shall be referred by either party to Administrative Mechanism for Resolution of



13/12/24 13/12/24

CPSEs Disputes (AMRCD) for resolution and the dispute or difference shall be resolved in accordance with the DPE OM No. 4(1)/2013-DPE (GM)/FTS-1835 dated 22.05.2018, which is deemed to be part of this agreement. The language of the Arbitration shall be English.

**SEAL OF PARTIES**

In witness whereof, the undersigned, duly authorized, have signed this Memorandum of Understanding at Chandigarh on 13th December, 2024. It has been executed in two originals. One is to be retained by CSIR-CSIO and the other by AU.

**PARTIES**

13/12/24

**(Prof.Shantanu Bhattacharya)**
**Director**
**Central Scientific Instruments Organisation**
**(Council of Scientific and Industrial Research)**
**Sector 30-C,Chandigarh**

Director
Central Scientific Instruments Organisation
Sector 30, Chandigarh-160 030

**Witness**

1. _____
**Mr. Narinder. Singh Jassal**
**Sr. Pr. Scientist & Head, BDG**
**CSIR-CSIO, Sec-30, Chandigarh**

2. _____
**Dr. Samir K. Mondal,** 13/12/24
**Chief Scientist,**
**CSIR-CSIO Chandigarh**

13/12/24

**(Prof. Archana Mantri)**
**Vice-Chancellor**
**Anurag University, Hyderabad, 500088**

VICE-CHANCELLOR
ANURAG UNIVERSITY
Venkatapur (V), Ghatkesar (M),
Medchal (Dist).

**Witness**

1. _____ 13/12/24
**Dr. Padmanabha Rao Amarachinta**
**Deputy Registrar**
**Anurag University, Hyderabad, Telangana**

2. _____
**Dr. Dibakar Roy Chowdary**
**Professor**
**Anurag University, Hyderabad, Telangana**

ANURAG UNIVERSITY































ANURAG
UNIVERSITY

# SHARED STATEMENT OF INTEREST (SSI)

This SSI is made on this 29th Day of September 2022 at **Anurag University**
BY and BETWEEN

**M/s "Bronx Community College/CUNY, US** having its registered office at 205 E 42nd St, New York, NY 10017, **WWWJALSANJIVINI, SKETC's and NELA (Nature Environment Life Academy)"** having its registered office 19C/603 Garden hill Society New Mhada Colony, Goregaon (East), Mumbai 400065 Maharashtra India and hereinafter together referred to as "**the team**" (which expression shall wherever the context so admits include its successors in interest, liquidators, administrators and permitted assignees) of the **First Part**

AND

**ANURAG UNIVERSITY**, a Private University located at Venkatapur (V), Ghatkesar Mandal, Hyderabad, Telangana 500088, hereinafter referred to as "**the Institute**" (which expression shall wherever the context so admits include its successors in interest, liquidators, administrators and permitted assignees) of the **Second Part**
WHEREAS all the parts are hereinafter referred to as "**Parties**";

AND WHEREAS, the parties by this SSI desire to establish common framework to facilitate in terms of exchange of information, material, to execute other agreements as may be necessary for the Projects, R&D, Skill Development, Training Programs and Placements.
Keeping in view the impact of Climate Change and for protecting Soil biodiversity, Forest and Water Bodies conservation, this association is imperative.

NOW THEREFORE, in consideration of the promises and mutual covenants hereinafter contained, the Parties hereto agree as follows:

## 1. OBJECTIVES OF THE SSI

The objective of this **Shared Statement Of Interest** is:

i. To promote interaction between Anurag University and **the team**

in mutually beneficial areas like Environmental Science projects, Community Projects etc.

ii. As part of this collaboration CUNY shall provide a Weather Station to the University for Joint Studies and projects.

iii. To propose joint student exchange program and faculty exchange program.

iv. To maintain healthy Academic association between Anurag University and the team.

## 2. PROPOSED MODES OF COLLABORATION

- The technical representative of "**the team**" will be the member of Board of Studies, where ever department it is applicable for, under the School of Engineering, Anurag University.
- **"The team"** will update Anurag University faculty members of any latest technology/technological advancements in "climate Change".
- Allow students of Anurag University to carryout internship in their premises, subjected to "**the team's**" feasibility.
- "**The team**" will advise Anurag University on the theme and technology to be used in Student Project related to the area of "climate Change".
- "**The team**" will work as mentor to Anurag University faculty members in Research and Engineering projects related to "climate Change" and take assistance from TITA (Telangana Information Technology Association) to facilitate joint projects.

## 3. TECHNICAL AREAS OF COLLABORATION

The principal technical areas of collaboration between **the Institute** and **The team** will be as set out separately.

## 4. SHARING OF RESOURCES

The Parties shall share the required resources to further the Research Projects, Training Programs and to meet the objectives in terms of this SSI.

## 5. RIGHT OF USE

i. The background know-how/ IP of the Projects, Training program belongs to both the parties and can be used freely by the parties for execution of the project within the scope of their own objectives.

ii. Each party shall promptly make written disclosure to discuss and coordinate with one another in the aspects of Project IP, publication needs, and commercial exploitation of Project IP etc.

## 6. CONFIDENTIALITY

i. During the tenure of the SSI, all the Parties, undertake to maintain strict confidentiality and refrain from disclosure thereof, of all or any part of the information and data exchanged/generated from the Project for any purpose other than in accordance with this SSI. It shall be the responsibility of all the Parties to ensure maintenance of such confidentiality in respect of their behalf and on behalf of their employees, representatives and associates involved in the Project.

ii. The Parties shall not have any obligation of confidentiality with respect to any information that:

a. Is in the public domain by use and/or publication at the time of its disclosure by the disclosing party; or

b. Was already in possession of the recipient prior to receipt from the disclosing party; or

c. Is properly obtained by the recipient from a third party with a valid right to disclose such information and such third party is not under confidentiality obligation to the disclosing party; or

d. Was disclosed to any third party on a non-confidential basis prior to commencement of the Project; or

e. Is required by public authority, by law or decree.

## 7. INTELLECTUAL PROPERTY

### *1. Force Majeure*

The Parties shall not be held responsible for non-fulfillment of their respective obligations in successful completion of the Project under this SSI due to the exigency of one or more of the *force majeure* events such as but not limited to acts of God, war, flood, earthquakes, strikes not confined to the premises of the Party, lockouts beyond the control of the Party claiming *force majeure*, epidemics, riots,



ANURAG UNIVERSITY

civil commotion etc. lying beyond the reasonable control of and not brought about at the instance of the Party claiming to be affected by such event and which has caused the non-performance or delay in performance; provided on the occurrence and cessation of any such event the Party affected has given a notice in writing to the other Parties within one month of such occurrence or cessation.

**2. Validity and Termination**

i. The SSI shall be effective from the date of its signing by all the Parties. The SSI shall be valid for valid for 5 years.

ii. The Parties may renew/terminate this SSI by mutual agreement.

**3. Alterations**

Any alteration and amendment to this SSI shall be made in writing by all the parties involved

**4. Transferability of Rights and Duties**

Rights and Duties in this SSI cannot be transferred to third party either in whole or in part, without the prior written consent of the other parties.

5. A separate **'Coordinating Committee'** for project monitoring in between principal applicant and collaborator(s) may be constituted.

**6. Dispute Resolution and Governance**

The parties agree to use reasonable endeavors to amicably settle any dispute arising among them in relation to the execution of the Project. (Arbitration provisions may be added).

The SSI shall be governed by the Laws of India.

**7. Notices**

Notices shall be sent to the contact person at the address as set forth below or such address as any party shall have furnished to the parties.

IN WITNESS WHEREOF the Parties hereto through its duly authorized representatives have signed this SSI on the day, month and year mentioned hereinbefore.



ANURAG UNIVERSITY

**Parties** - Authorized Signatory

For and on behalf of M/s "**the team**"

**Name:** THOMAS ISEKENEGBE **Designation:** PRESIDENT.

**Signature:**

**Company/Organization: Bronx Community College/CUNY**

**Name:** DR. SNEHAL DONDE **Designation:** CHAIRMAN.

**Signature:**

**Company/Organization: WWW JALSANJIVINI SKETC's and NELA (Nature Environment Life Academy)**

For and on behalf of **ANURAG UNIVERSITY "Private University"**

**Name:** PROF. SAMEEN FATIMA **Designation:** REGISTRAR

**Signature:** 29/9/2022

**Witness 1:** (S. NEELIMA).

**Witness 2:**

PURDUE UNIVERSITY EPICS Program

**Purdue -EPICS Partnership –Anurag University 2024-2025**

April 23, 2024

Payment Invoice No: 03/EPICS-2024

To,
The Registrar,
Anurag University,
Hyderabad, Telangana State, India

Sub: Invoice for Purdue -Epics Partnership 2024-25, Anurag University, Hyderabad, Telangana (State), India

This is for in considering of "Anurag University, Hyderabad as member of the Purdue -EPICS Partnership for 2024 –25". **This is an Invoice for one year period from the day of transfer the fee & The Partnership Fee for the year is $7000 U$D.** Any taxes or transfer fees are the responsibility of the member institution

**Please send wire transfer in favor of Bank instructions for remitting Electronic Funds Transfer (EFT) payments:**

**ACH: Account Title: Purdue University Incoming Electronic Payments Checking Account Number *: 5157579 Bank ABA/Routing No.: 071000013 Bank Name: JPMorgan Chase Bank, N.A. Bank Address: Chicago, IL**

**Wire Transfer: Account Title: Purdue University Incoming Electronic Payments Account Number *: 5157579 Bank ABA/Routing No.: 021000021 Bank Name: JPMorgan Chase Bank, N.A. Bank Address: New York, NY Swift Code: CHASUS33**

Please find enclosed General Sales Tax Exemption Certificate ( Form ST-105), IRS Determination Letter (**Purdue was recognized as exempt from Federal Income tax of 1939, which corresponds with section 501(c)(3) of the Internal Revenue Code of 1986, USA.** ) & ACH, Wire transfer instruction documents.

Make sure that "Purdue -EPICS Partnership 2024-25 – Anurag University" is mentioned as the purpose of the payment during the transfer.

Thank you.

**William(Bill) Oakes, P.E**
**Assistant Dean for Experiential Learning**
**150th Anniversary Professor**
**Director of the EPICS Program**
**Professor of Engineering Education**

ANURAG UNIVERSITY




తెలంగాణ तेलंगाना TELANGANA U 961959

Sl.No. 29959 Date 25/10/2019
Sold to Dr. S. Chandra Sekhar
S/o W/o D/o Gundu Rao
For whom CSIR - IICT

BODA RAM KUMAR
LICENCED STAMP VENDOR
L.No. 16-06-013/2018
#1-4-188, Flat No. 406, Gharonda Veera Apts.,
Padmarao Nagar, SECUNDERABAD.
Cell: 9059293368

ANURAG UNIVERSITY

iict CSIR - IICT

## Memorandum of Understanding between

## Anurag University, Ghatkesar, Hyderabad

## and

## CSIR-Indian Institute of Chemical Technology, Hyderabad

In the spirit of intellectual cooperation scholarly exchange, and the development of national partnership with leading institutions, Anurag University, Venkatapur, Ghatkesar,Hyderabad-500088, (hereinafter referred to as **AU**) as the first part and CSIR-Indian Institute of Chemical Technology, Tarnaka, Uppal Road, Hyderabad-500007, Telangana State, a constituent unit of the Council of Scientific and Industrial Research (CSIR), a Society registered under Societies Registration Act (XXI of 1860), having its registered Office at Anusandhan Bhavan, Rafi Marg, New Delhi -110001, (hereinafter referred to as **CSIR-IICT**) of the second part.

Both the parties agree to establish a program of exchange and collaboration on related matters of mutual interest that may emerge over time.

1. The purposes of the cooperation are to promote cooperative research and to facilitate the exchange of ideas, the development of new knowledge, and to enhance high quality research acumen. The major thrust of the research on which the parties will cooperate is **organic chemistry synthesis, medicinal chemistry, nanotechnology, drug discovery, drug delivery, regenerative medicine, disease models for cancers, ischemic, neurodegenerative etc., polymer chemistry, catalysis, toxicity study, engineering etc. (*in vitro* and *in vivo* models).**
2. **AU** and **CSIR-IICT** have agreed to:
    a. initiate collaboration between faculty members and scientists in either Institute such that students/research scholars in either Institute get an opportunity to conduct research in advanced thrust areas in science and technology.
    b. facilitate researchers (affiliated to either Institute) to collect data and conduct of experiments on various available equipment in either Institute on chargeable basis or concessional rates and as per the rules/regulation of the respective Institute.
    c. facilitate access to library facilities such as subscribed journals and databases to collaborating researchers.
    d. exchange faculty members/scientists/students and staff in collaborative research projects on areas of above mentioned research expertise.
    e. facilitate visit of students (undergraduate and post graduate B.Tech/M.Sc./M.Tech) as part of curriculum for executing project/dissertation/internships for short-term (up to 6 months) or long term (up to one year) training and research exposure as per guidelines of host institutes.
    f. permit visit of faculty members/scientists on sabbatical to either Institute as per institute rules.
    g. jointly publish research results generated out of collaborative research between scientists/faculty members involving both **CSIR-IICT** and **AU**.
    h. share knowledge by guest lectures/expert lecture (from either Institutes) on the courses under curriculum without prejudice to the work/responsibilities of guest lecturer (Faculty/scientist) in their affiliated Institute.
    i. draft and submit joint proposals in areas of mutual research interests to national and international funding agencies and industry partners.
    j. apply for bilateral programmes on areas of expertise as mentioned above, as per the norms of respective institutes.
    k. jointly conduct of societal relevant scientific programmes.
    l. conduct Faculty Development Programmes (FDPs), National or International Conferences/Seminars/Symposium/Workshops etc., Skill development programs, certification courses, and training programs. Faculty members/Scientists may be resource persons in such events without prejudice to the work/responsibilities in their respective Institute.

ANURAG UNIVERSITY

m. enter into separate agreements on case-to-case basis w.r.t joint projects taken up both Institutes within the tenure of this MoU.
n. include other fields of study (not mentioned above) within the duration of this MoU by mutual written agreement between the two Institutes.
o. include any other forth coming areas of mutual interests that are not included in the purview of this MoU through a separate agreement.

3. Prior to the initiation of any particular project or activity, the specific terms of cooperation and exchange for that project will be discussed and agreed upon in writing by the appropriate responsible representatives of both institutions.
4. Both parties understand that all financial arrangements for specific exchange activities must be mutually agreed upon and will depend on the availability of funds. In addition, the scope of the activities will be subject to funds available at the institutions for the type of collaboration undertaken and any financial assistance that may be obtained by either from external sources.
   Both parties also agree to assist each other in correspondence with funding agencies as the case may be, to seek funds for the joint research programs or activities under this collaboration.
5. Either party may propose to the other specific individual research projects for collaboration. Such proposal may be made at any time and the parties will develop an agreement for each agreed-upon project **on case to case basis**. The protection and exploitation of any **intellectual property** arising out of a research project will be addressed in each individual project agreement early on and ongoingly.
6. Day to day implementation of this Agreement will be coordinated by Dr. Vasudha Bhotika of ....A.U..... and Dr. K. Rajender Reddy at CSIR-Indian Institute of Chemical Technology, Hyderabad.
7. Each institution agrees to release and hold the other harmless from and against any claims, damages, liability or costs, to the extent such claims damages, liability or costs arise from the negligent or willful acts or omission of the other university or any of its agents or employees in connection with their respective performance under this MOU.
8. The parties agree that in the course of implementing this MOU, they will not engage in unlawful discrimination on the grounds of race, gender, sexual orientation, age, religion, social class, national or ethnic origin or disability.
9. Amendments to this MOU may be made at any time after consultation and agreement between the two institutions. Any such amendment must be in writing and signed by both parties.
10. This MOU will remain in force for a period of **3 years from the date** it is fully executed. The MOU can also be suitably modified, as agreed to by both the parties, to reflect an increased scope, nature of engagement/activities including financial commitments, if any. Prior to the **expiration date**, the MOU may be reviewed for possible renewal for a further **three** year period. In addition, either party may terminate the MOU in advance of its normal **expiration** by providing the other with six months' prior written notice. In this case,

IN WITNESS WHERE OF the parties hereunto have set their hands to these presents on the day, month and year first above mentioned.

**SO AGREED:**

**For and on behalf of**

CSIR-IICT, Hyderabad

KRReddy

Signature

DR. K. RAJENDER REDDY

Designation

डॉ. के. राजेंदर रेड्डी, एमएससी, पीएच.डी
Dr. K. Rajender Reddy, MSc., Ph.D
अध्यक्ष / Chairman
मानव संसाधन प्रबंधन समिति(एचआरएमसी) / Human Resource Management Committee(HRMC)
सी.एस.आई.आर - भारतीय रासायनिक प्रौद्योगिकी संस्थान
CSIR-Indian Institute of Chemical Technology
विज्ञान और प्रौद्योगिकी मंत्रालय, भारत सरकार
Ministry of Science & Technology, Govt. of India
हैदराबाद/ Hyderabad - 500 007, तेलंगाना/ Telangana, भारत / India

Seal

**For and on behalf of**

Anurag University, Ghatkesar, Hyderabad

Signature

Dr. Balaji Utla
Registrar, Anurag University

Designation

Seal

**Witnesses (Name & Address)**

1. A Vishnu Vardhan
(A. Vishnu Vardhan)

2. Prasenjit Das.
(PRASENJIT DAS)

Date: 22/03/2024.

**Witnesses (Name & Address)**

1. Dr. B Vasudha

2. Dr. Savita Bahwal.

Date: 22/3/24

# Memorandum of Understanding
# (MoU)

***Between***

**National Mission for Clean Ganga**

**Ministry of Jal Shakti**
**(Department of Water Resources, River Development & Ganga Rejuvenation), Government of India**
**1st Floor, Major Dhyan Chand National Stadium**
**India Gate, New Delhi - 110002**

***and***

**Anurag University, Hyderabad**

**This Memorandum of Understanding is drawn on the _12_day of April_2023, between:**

**BY AND BETWEEN**

**National Mission for Clean Ganga, Ministry of Jal Shakti (Department of Water Resources, River Development & Ganga Rejuvenation), Government of India through its Authorized Signatory** (name and designation of the person) having its office at 1st Floor, Major Dhyan Chand National Stadium India Gate, New Delhi – 110002 (hereinafter referred as the "**NMCG**", which term or expression, unless excluded by or repugnant to the subject or context, shall mean and include its successor(s)-in-office, administrators and permitted assignees) of the **First Part.**

**AND**

**ANURAG UNIVERSITY, HYDERABAD**

Both "**NMCG**" and "**ANURAG UNIVERSITY, HYDERABAD"** are individually referred to as Party and collectively as Parties

The Parties hereby agree to and set forth the terms governing their collaboration on the Project (as defined below).

**National Mission for Clean Ganga (NMCG)** was registered as a society on 12th August 2011 under the Societies Registration Act 1860.It acted as implementation arm of National Ganga River Basin Authority (NGRBA) which was constituted under the provisions of the Environment (Protection) Act (EPA),1986. NGRBA has since been dissolved with effect from the 7th October 2016, consequent to constitution of National Council for Rejuvenation, Protection and Management of River Ganga (referred as National Ganga Council). The Act envisages five tier structure at national, state and district level to take measures for prevention, control and abatement of environmental pollution in river Ganga and to ensure continuous adequate flow of water so as to rejuvenate the river, Ganga.

**Details of the Anurag University, Hyderabad**

Whereas both the Institutions have agreed to extend all possible help with regard to work in close collaboration and sharing of expertise from time-to-time. Both parties have entered into this MoU with an objective to "further education, awareness, building actionable initiatives to help spread awareness on River Rejuvenation in general and Namami Gange Programme in particular and use the exuberance of youth to contribute to such cause(s)"

performance of which is or will be prevented. The notice shall be given within 3 (three) days after the party becomes aware, or should have become aware of the relevant circumstances constituting the *Force Majeure*. The party shall, having given such notice, be excused from performance of such obligation(s) for so long as such Force Majeure prevents it from performing it/them.

## 11. Governing Law and Dispute Resolution

"That in the event of any dispute that may crop up during execution of MoU, shall as far as possible be settled amicably with mutual consultation of Parties. However, if amicable settlement cannot be reached within 30 days from the date of the occurrence of the dispute, the matter under dispute shall be finally settled without recourse to the courts, in accordance with the provisions of the Arbitration and Conciliation Act 1996 and amendments thereto, if any, and for this purpose, the dispute shall be referred to Arbitration Committee comprising of a member nominated by two Head of Organizations and one member will be jointly nominated by two organizations. The validity, interpretation, enforceability, and performance of this MoU shall be governed and construed in accordance with the Laws in India. The arbitral award shall be final and binding upon both the parties. The arbitration proceedings shall be held at Delhi. All proceedings shall be conducted, including all documents presented in such proceedings, in English language".

**Signed and executed this day _____ of _____ 2023 in token of having accepted the terms and conditions mentioned therein.**

**On behalf of NMCG**

**Director**

**National Mission for Clean Ganga**

**On behalf of the Anurag University, Hyderabad**

**Registrar/V-C**

**Anurag University, Hyderabad**

# Memorandum of Understanding (MoU)

## Joint Collaboration for Capacity Building, Workshops, Outreach Activities and Academic Interface

**Between**

National Remote Sensing Centre
ISRO, Department of Space, Govt. Of India
Balanagar, Hyderabad-500037
Telangana

**and**

Anurag University
Hyderabad - 500088

*Signed on:*
*10th day of December 2025.*

| | | | | |
|---|---|---|---|---|
| 2. | Shri P Shashidhar Reddy | GH,TEOG, NRSC | 04023884533 | ddmsa@nrsc.gov.in shasidharreddy_p@nrsc.gov.in |

**Second Party: Anurag University**

| Sl. No | Name | Contact address | Telephone | e-mail |
|---|---|---|---|---|
| 1. | Dr. Archana Mantri | Vice-Chancellor, Anurag University | 9876794944 | vc@anurag.edu.in |

5 **Date of Signing, Effective Date and Duration of MOU**

**Date of signing:** The date of signing in MoU shall be the date on when both parties sign the document.

**Effective date:** The effective date of MoU is the date of signing the MoU

**Duration of MoU:** This Memorandum of Understanding (MoU) is operative initially for a **period of Five years** from the date of signing the Memorandum of Understanding. Later, renew after (5) five years and extension of MoU shall be as per mutual consent. It can be terminated by either party by giving a written notice of 60 days. The termination of this MoU shall not affect the validity and duration of any arrangements, agreements, programs, activities, and projects made under this MoU until completion of such arrangements, agreements, programs, activities and projects.

6 **Scope of Work**

The main purpose of the MoU is to build the capacity of the officials of Anurag University. The scope of work encompasses the following:

**Frist party: National Remote Sensing Centre (NRSC)**

1. To offer student projects/internships for B.Tech/B.E., M.Tech/M.E., Ph.D. students of Anurag University.
2. To facilitate students of Anurag University for industrial visit to NRSC
3. To provide research opportunities at NRSC campus for Anurag University PhD Students.
4. To organize Antarctica live interaction at Anurag University during important events based on availability.
5. To collaborate with Anurag University in Joint Research activities.
6. To collaborate with Anurag University in Joint / Hybrid Student Project works.
7. Workshops: Responsible for technical support and presentation of RS projects.

**29. Seal of parties**

IN WITNESS WHEREOF, the parties hereto have signed this agreement on the **10th December 2025** herein before mentioned.

| First Party | Second Party |
|---|---|
| For and on behalf of President of India<br><br>**Director, NRSC**<br>National Remote Sensing Centre<br>(NRSC/ ISRO), Hyderabad. | For and on behalf of<br><br>**Vice-Chancellor**<br>ANURAG UNIVERSITY<br>Hyderabad. |
| Signature 10/12/25 | Signature 10/12/25 |
| Seal<br>डॉ.प्रकाश चौहान/Dr.Prakash Chauhan<br>विशिष्ट वैज्ञानिक एवं निदेशक/Distinguished Scientist & Director<br>राष्ट्रीय सुदूर संवेदन केंद्र/National Remote Sensing Centre<br>इसरो/अंतरिक्ष विभाग/ ISRO/ Dept. of Space<br>भारत सरकार/Government of India<br>बालानगर, हैदराबाद/Balanagar, Hyderabad-500 037. | Seal<br>ANURAG UNIVERSITY |
| Witness (Name and Address)<br><br>1. Dr. Chandrasekar K<br>Group Director, PPEG, NRSC<br><br>2. Shri P. Shashidhar Reddy,<br>Group Head, TEOG, NRSC | Witness (Name and Address)<br><br>1. Dr Siddhartha Ghosh, 10.12.25<br>Director, OIA.<br>Anurag University<br><br>2. Dr Santhosh Mirlala<br>Associate Director, OIA.<br>Anurag University. |

Rural Economic and Educational Development Society
REEDS Improving Rural Life

ANURAG UNIVERSITY

# MEMORANDUM OF UNDERSTANDING

*Between*

**RURAL ECONOMIC AND EDUCATIONAL DEVELOPMENT SOCIETY**

**and**

**ANURAG UNIVERSITY**

ANURAG UNIVERSITY

# MEMORANDUM OF UNDERSTANDING

***Between***

**RURAL ECONOMIC AND EDUCATIONAL DEVELOPMENT SOCIETY, HYDERABAD**

***And***

**ANURAG UNIVERSITY, HYDERABAD**

This Memorandum of Understanding (MoU) entered into and executed on 20 January 2025 between

RURAL ECONOMIC AND EDUCATIONAL DEVELOPMENT SOCIETY, having its office at Flat# C-206, Vijaya Hills, 11-4-646, AC Guards, Hyderabad. Telangana India - 500 004, (hereinafter referred to as 'REEDS' as the context permits).

**And**

ANURAG UNIVERSITY, Hyderabad, Telangana is a university situated in Venkatapur, Ghatkesar, Medchal–Malkajgiri district, Hyderabad, Telangana, India. 500 088

REEDS, a voluntary not-for-profit organization established in 1989, is dedicated to improving the quality of life for rural communities across multiple states. REEDS' action programs, conducted in collaboration with government agencies, ministries, and national and international affiliates, include Sanitation & Hygiene, Safe Drinking Water, Skills Development, Entrepreneurship Development, Waste Management, Awareness & Education, and Monitoring & Evaluating Developmental Programs. Over the years, REEDS has made valuable contributions by formulating and implementing programs that have created an impressive record of achievements. The organization believes in partnering with those who share their vision and motivation for enhancing rural development.

Whereas the **ANURAG UNIVERSITY**, established in 2020 is a university in the State of Telangana. The Institution currently offers 15 Undergraduate Programs, 10 Postgraduate Programs and 9 Doctoral Programs through its Schools of Engineering, Management, Pharmacy, Agriculture and Medical Sciences. It has the objective to provide facilities and promote studies in emerging areas of higher education on the frontiers of science, technology, and management education. In pursuance of the objective, the Institute has been endeavouring to develop closer relationship with the corporate world so that the synergy between academics and NGO world can be reaped to the fullest extent.

RURAL ECONOMIC & EDUCATIONAL DEVELOPMENT SOCIETY
REEDS
Hyderabad

**Article III: Duration and Termination of the MoU**

1. This MoU is effective as of the date of signatures by the authorities of REEDS and Anurag University.
2. This MoU is valid from the Date of execution by the parties and shall remain in effect forever, unless it is terminated by either of the parties with 90 days' notice.
3. This MoU can be amended at any time if both parties agree in writing.
4. This MoU may be terminated by either party by the provision of written notice of termination not less than six months prior to the desired termination date. However, both parties agree that all continuing obligations to students, staff, funding bodies or other entities are met in full subsequent to the notice of termination.
5. The termination of this MoU will not affect any existing agreements or commitments made before the termination date.
6. If any disputes arise between the parties, both will make efforts to resolve them through amicable discussions and mutual agreement.

**Article IV: Miscellaneous**

1. If any provision of this MoU is held by any court or other competent authority to be illegal, void, or unenforceable in whole or in part, this memorandum shall continue to be valid regarding the other provisions, and the remainder of the affected provision.
2. Nothing in this MoU constitutes or to be construed a party as the partner, agent employee or representative of the other party. A party must not act independently of the other party and does not have the right or power to commit the other party on any matter or incur any obligation on behalf of or pledge the credit of the other party without the prior written approval of the other party.
3. The parties agree to comply with all laws applicable within the jurisdiction of the signatories below.
4. Data generated through any collaborative work of the parties will be published jointly in scientific journals and on public platforms. Any intellectual property arising from joint intellectual input under a collaborative research/R&D project shall be held jointly through a separate agreement.
5. Each party hereto is entitled to make this arrangement/association known wherever necessary for furthering their respective objectives. Each party may suggest that its logo be used by their respective policies and procedures. Both organizations regularly offer information on activities for the other partner to disseminate via their respective communication channels.

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REEDS
Hyderabad



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6. For each specific assignment or initiative undertaken jointly or on behalf of the other, a separate letter of arrangement or agreement shall be executed between both parties. This document will define the scope of responsibilities for each party, along with the terms and conditions of the assignment or initiative, including details of any financial arrangements, if applicable.

IN WITNESS whereof 'the parties hereto have executed this MoU or caused it to be executed in their names and on their behalf by their duly authorized representatives on the date set forth.

RURAL ECONOMIC & EDUCATIONAL DEVELOPMENT SOCIETY
REEDS
Hyderabad

**Dr. Ravi Kumar Reddy**
Secretary
for
REEDS

Date: 27-01-2025
Place: Hyderabad

**Dr. P. Bhaskara Reddy**
Registrar
for
Anurag University

Date: 01/02/2025
Place: Hyderabad

Witness:
REEDS
1.Ms Poonam Thakur
Communication and Outreach Specialist

Anurag university
1.Dr P Narayan Reddy
Dean, College of Agriculture

Donate Blood
Save Lives

# MSN BLOOD CENTRE

(MSN Voluntary Organisation)
Lic No. 98/MDCL/TS/2020/BC/G
(Regd. No.5207/1994)
H.No. 2-157, Jetta Mallaiah Complex, Near Gandhi Statue, Uppal, Hyderabad-500 039.
Ph.: 040-27207772, 7396704647, 7207804647 Email : msnbloodcentre@gmail.com, Web: www.msnhelpinghands.com

## Memorandum of Understanding (MoU)

From:
MSN BLOOD CENTRE,
H.NO:-2-157 2nd floor,
jettamallaiah complex, Main Road, Uppal,
Hyderabad -500039.

Date: 01 April 2025.

To:
Neelima Hospitals,
Venkatapur-Ghatkesar.

This Agreement made on 01 April 2025, Between Neelima Hospitals, Venkatapur, Ghatkesar. 500088, reported by COO, Neelima.S (A unit of Gayatri Educational Cultural trust) hereinafter called the "FIRST PARTY" (which expression shall unless otherwise excluded by or repugnant to the subject of context hereof mean and include its successors-in-interest and/or assigns) of the ONE PART.

AND

M/S MSN BLOOD CENTRE having its office at 2-157 2nd floor, jettamallaiah complex, Main Road, Uppal, Hyderabad -500039 represented by President M.Shivanarayana hereinafter called the "SECOND PARTY" (which expression shall unless otherwise excluded by or repugnant to the subject or context hereof mean and include his successors-in-interest, legatees and - or permitted assigns) of the OTHER PART.

AND WHEREAS the first party is running a hospital upon the said premises intends to have an MoU for the patient services for Blood /Blood components In patient Services, etc.

AND WHEREAS the Second party is the Medical Officer of M/S. MSN BLOOD CENTRE, a having full-fledged facilities in Hyderabad is processed to give support to Blood /Blood components services with latest and sophisticated medical equipment along with high quality.

Cont...2

M. Shiva

MSN BLOOD CENTRE HYD-39 UPPAL

NEELIMA HOSPITALS MEDCHAL-MALKAJGIRI DIST-500 055

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6. The agreement is valid from 01-04-2025 to 31-03-2030 (unless otherwise extended).The medical superintendent reserves the right to terminate the contract if the services are found unsatisfactory or in violation of the terms and conditions as spelt above or without assigning any reason. Signed and sealed by purchaser and the agency:

Witnesses:

1. Sharath Kumar.CH

2. CH.Anitha

FIRST PARTY

Neelima. S
(C.O.O)

NEELIMA HOSPITALS MEDCHAL-MALKAJGIRI DIST-500 055 VENKATAPURI(V), GHATKESAR(M)

SECOND PARTY

MSN BLOOD CENTRE
(President)

MSN BLOOD CENTRE HYD-39 UPPAL

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**MEMORANDUM OF UNDERSTANDING**
**BETWEEN**
**SRI KONDA LAXMAN TELANGANA HORTICULTURAL UNIVERSITY,**
**MULUGU, SIDDIPET DISTRICT**
**AND**
**SCHOOL OF AGRICULTURAL SCIENCES, ANURAG UNIVERSITY**

This Memorandum of Understanding (MoU) is made on this 30th day of september between:

**Sri Konda Laxman Telangana Horticultural University** (hereinafter called as SKLTGHU) came into existence and was established w.e.f. 23.12.2014 as per the G.O. Ms. No. 31 and 32 Dated 22-12-2014 of Agriculture and Cooperation Department, Government of Telangana. The University runs with the mandate on Education, Research and Extension of horticultural domain which expression shall include its successors in interest/business and permitted assigns) on the ONE PART

AND

**School of Agriculture Sciences, Anurag University** established in the year 2021 by the Govt. of Telangana as per the State Universities Act 13 of 2020 hereinafter called as SAS ( which expression shall mean and include its executors, successors and permitted assigns) on the OTHER PART.

In this MoU, SKLTGHU and SAS shall individually refer to as "Party" and jointly as "Parties" hereinafter.



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- Research findings published by either Party will give credit to other Party's contribution, but the Party publishing them will be entirely responsible for conclusions and interpretations reported.
- Results of collaborative research may be tried on farmers' fields through farm trials and demonstrations with active participation of extension education units and Krishi Vigyan Kendras of the respective parties.

**4 TIMELINE**

4.1 This MoU is intended to provide a framework for the Parties' discussion leading to the definitive agreement and will be in effect for a period of three years or until earlier terminated by either Party upon written notice or superseded by the definitive agreement signed by both Parties.

SKLTGHU and SAS have caused this Memorandum of Understanding to be executed by their respective authorized representatives.

| **(Name and Address of the First Party)** | **(Name and Address of the Second Party)** |
|---|---|
| Sri Konda Laxman Telangana Horticultural University (SKLTGHU), Mulugu Village & Mandal, Siddipet District – 502279, Telangana | **Anurag University** Medchal-Malakajiri District, Hyderabad |
| **Registrar : Dr.A.Bhagwan** | **Vice Chancellor: Dr Archana Mantri** |
| Date: 30/9/2024 | Date: 30/9/2024 |
| **Signature with Seal** | **Signature with Seal** |
| Witness 1..... | Witness 1..... |
| Witness 2..... | Witness 2 ..... |









## MEMORANDUM OF UNDERSTANDING (MoU)

**BETWEEN**

**PARTICIPATORY RURAL DEVELOPMENT INITIATIVE SOCIETY (PRDIS), HYDERABAD**
**&**
**ANURAG UNIVERSITY, HYDERABAD, TELANGANA**

**This agreement is made on 22nd February, 2025**

### ABOUT PRDIS

Participatory Rural Development Initiative Society (PRDIS), registered in 1999, is a reputed National Level development organization and a network umbrella organization, specializing in the areas of sustainable development (Agriculture Extension & Agribusiness) and NRM. In addition to undertaking capacity building programmes and development works at grass roots level, this organization has also been providing consultancy services to the Central Government, various State Governments, Inter- governmental and International development agencies on Agriculture and Rural Development Issues. Monitoring Evaluation & Studies Entrepreneurial Skill Development, specially undertaking benchmark, impact assessment, research studies and capacity building activities as well as field operations focusing on sustainable agriculture.

Participatory Rural Development Initiative Society (PRDIS) was identified by Anurag University to collaborate in National and International conferences, Research Studies and Training Programmes for the officers of Agriculture and allied sectors, progressive farmers and other stakeholders in India and abroad to share experience and gain Knowledge in the field of Agricultural Research, Extension and Development Programme etc.,

### ABOUT ANURAG UNIVERSITY

Anurag University is established as a Private State University through Ordinance No. 1/2020, dated: 20.05.2020 as per the Telangana State Private Universities Act No. 11 of 2018 and located in Hyderabad, Telangana. The primary focus is to provide a high quality education in Undergraduate, Postgraduate and Doctoral programs of various disciplines namely engineering, Pharmacy, Agriculture and Management fields. The School of Agricultural Sciences was established in 2021 offering B.Sc. (Hons) Agriculture degree. It has versatile distinguished faculty who holds Ph. D. The school follows ICAR syllabus with practical industry-oriented teaching, and has entered into collaborative research with agri-business industries.



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# Relationships with regional NGOs and government for SDG policy

Anurag University has established partnerships with regional non-governmental organisations (NGOs) and government institutions to support the implementation of policies and initiatives aligned with the Sustainable Development Goals (SDGs). These collaborations provide a platform for joint research, education, training, community engagement, outreach and capacity building. The University works with organisations such as Lepra Society, Good Universe, Rural Economic and Educational Development Society (REEDS) and Participatory Rural Development Initiative Society (PRDIS) to address community needs, promote rural development, support agricultural extension and contribute to research, advocacy and policy initiatives.

The University also collaborates with several Government of India institutions, including CSIR-Central Scientific Instruments Organisation (CSIO), CSIR-Indian Institute of Chemical Technology (IICT), National Mission for Clean River Ganga under the Ministry of Jal Shakti, and National Remote Sensing Centre (NRSC) under the Department of Space. These partnerships focus on joint research, scientific and technological development, water conservation, environmental awareness, and capacity building. In addition, its association with MSN Blood Centre supports blood donation and blood management initiatives. Through these formal Memoranda of Understanding (MoUs), the University contributes academic expertise, research capabilities and institutional resources to support the work of NGOs and government bodies, while strengthening partnerships for addressing regional development priorities and advancing SDG-related policies and programmes.

### List of Collaborating NGOs & Govt. Bodies

| # | Organisation | MoU Validity | Key Focus Areas |
|---|---|---|---|
| 1 | Lepra Society | 03.11. 2027 | Education, Training, Research |
| 2 | Good Universe | Perpetual validity | Outreach, Research, Advocacy & Policy |
| 3 | Council of Scientific and Industrial Research (CSIR) - Central Scientific | 13.12. 2029 | Joint Research |

| | | | |
|---|---|---|---|
| | Instruments Organisation (CSIO), Chandigarh, Govt. of India | | |
| 4 | Council of Scientific and Industrial Research (CSIR) - Indian Institute of Chemical Technology, Govt. of India | 21.03.2027 | Education, Training, Research |
| 5 | National Mission for Clean River Ganga, Ministry of Jal Shakti, Govt. of India | 11.04.2026 | Water Conservation & Awareness |
| 6 | National Remote Sensing Centre (NRSC), Department of Space, Govt. of India | 09.12.2030 | Outreach and capacity building in space technology & applications |
| 7 | Rural Economic and Educational Development Society (REEDS) | Perpetual validity | Research and Development; Community Engagement and Empowerment |
| 8 | Participatory Rural Development Initiative Society (PRDIS) | 21.02.2027 | Agricultural extension in rural areas |
| 9 | MSN Blood Centre | 31.03.2030 | Donation & Blood management |

# International Collaboration on Gathering or Measuring Data for SDG & Best Practices

## 1. The City University of New York's Climate Change Project at Anurag University

Anurag University and Bronx Community College, which is part of the City University of New York (CUNY), signed a Shared Statement of Interest (SSI) in September 2022. The SSI provides a framework for collaboration for five years, up to September 2027. CUNY provided a weather station to Anurag University for Joint Studies and projects. The university used the weather station to collect data about weather, air quality, rainfall etc and does research on the same. In 2025, research was conducted using the data collected under the program. A brief of a university funded research acknowledging the utility of the project (without disclosing the data captured or other information generated from the project, as per the agreement) is given below.

### Utilization of Weather Station Data in Solar Still Research, Patents, and Student Projects

The Weather Station installed at Anurag University has been an indispensable research facility in carrying out my work on solar desalination systems. The continuous monitoring and recording of meteorological parameters such as solar radiation intensity, ambient temperature, relative humidity, wind velocity, cloud cover, and other environmental conditions provided reliable site-specific data that formed the basis for experimental investigations, numerical simulations, and performance evaluation of various solar still configurations.

In my AU SEED Project titled "Increasing the Distillate Yield from a Solar Still through Different Design Variations," the weather station data served as the primary source of environmental inputs during experimentation. The recorded solar radiation values were used to correlate the incident solar energy with the hourly and daily freshwater production of the solar still. Ambient temperature measurements enabled the analysis of temperature gradients between the basin water, glass cover, and surrounding air, which directly influence evaporation and condensation processes. Wind velocity data were used to study the convective cooling of the glass cover, an important factor affecting condensation efficiency and overall distillate yield. Relative humidity measurements helped in understanding the

moisture-carrying capacity of the surrounding air and its influence on the condensation rate. Cloud cover information was also considered while selecting experimental days and interpreting fluctuations in solar energy availability.

The weather station data played a significant role in validating the CFD simulations developed using ANSYS Fluent. The experimentally measured atmospheric conditions were incorporated as realistic boundary conditions in the numerical models, resulting in improved prediction accuracy and better agreement between simulated and experimental results. The availability of actual meteorological data minimized uncertainties arising from assumed environmental conditions and strengthened the credibility of the computational studies.

Weather station data also supported the research publications and patents arising from these investigations. It provided scientifically validated environmental inputs for performance analysis, efficiency calculations, and comparison of different design modifications, including the use of nanoparticles, reflectors, optimized water depth, and enhanced basin configurations. The availability of authenticated meteorological data strengthened the technical quality and reproducibility of the published research.

Furthermore, the weather station served as an important educational and research resource for the B.Tech student projects under my guidance. Students utilized real-time campus weather data to evaluate the performance of experimental solar stills, compare seasonal operating characteristics, develop empirical correlations between climatic parameters and freshwater yield, and validate analytical and numerical models. This

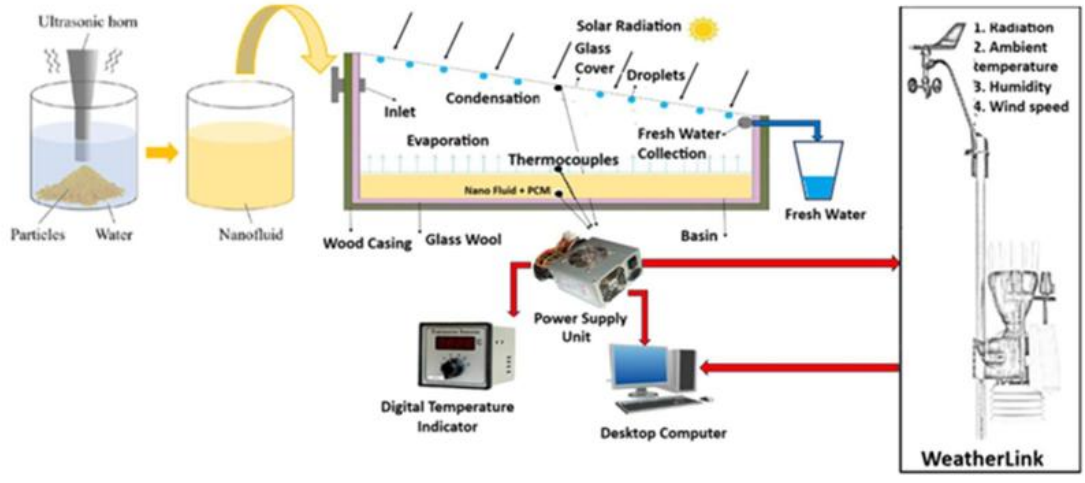



Fig.1. Solar Still with Nanoparticles-PCM Combination: Operation in Passive mode

exposure enabled students to appreciate the direct influence of environmental conditions on renewable energy systems while developing practical skills in experimental data acquisition and analysis.

The Anurag University Weather Station has been a critical research infrastructure supporting my work in solar desalination by providing accurate and continuous environmental data. Its integration into experimental studies and computational modelling has significantly enhanced the reliability, scientific rigor, and practical relevance of my contributions in the field of solar thermal energy and sustainable water desalination.



Fig.2. Design, fabrication, experiments, and simulations on passive solar still with and without nanoparticles including water tests

Report by:

Dr. Vishwanath Kumar Panangipalli
Associate Professor Department of
Mechanical Engineering

## 2. Purdue University's EPIC Program (2024-25 Period)

Anurag University is part of the global Engineering Projects in Community Service (EPICS) network established by Purdue University, USA. EPICS is an internationally recognised programme that connects engineering education with community needs through practical, multidisciplinary projects. It enables students to use their technical knowledge to address real-life problems while developing social responsibility and problem-solving skills.

Under this model, students work in teams on projects related to environmental sustainability, public health, education, accessibility, energy, community infrastructure and assistive technologies. They identify problems in consultation with the concerned communities, develop prototypes, test solutions and assess their impact. This approach ensures that the projects are relevant to local needs and provide practical benefits.

Through this partnership, Anurag University has adopted the EPICS approach across its engineering programmes till March, 2025. Students undertake community-based projects in association with NGOs, government bodies, rural communities, schools and public service organisations. These projects are aligned with regional development priorities and the United Nations Sustainable Development Goals (SDGs). Faculty members are also trained in the EPICS framework to support project design, implementation and community engagement.

The projects enable students to apply classroom learning to practical situations and develop professional skills. Areas of work include low-cost assistive devices, environmental monitoring systems, educational tools, renewable energy applications and technology-based solutions for rural communities.

The collaboration strengthens Anurag University's international academic engagement and promotes experiential learning, innovation and social responsibility. It also helps students develop into competent engineers who understand community needs and use technology to address societal challenges.

From June, 2025, the University adopted fully the Joy of Engineering approach as part of its curriculum. This ensured what was available EPICs continued to be available and ensured sustainability, social responsibility, and ethical engineering at the core of its academic framework by integrating SDG-oriented learning across all engineering programmes.

## 3. Partnership with International (Foreign) Universities for promotion of higher education & research, economic growth, innovation etc

The university has partnered with the following universities in 2025:

| # | Organisation | Key Focus Areas |
|---|---|---|
| 1 | National Chung Cheng University, Taiwan R.O.C | Global Education, Student Internship, Faculty Exchange, etc. |
| 2 | Myongji University, Seoul, Republic of Korea | Student/Faculty exchange, Joint research and seminars, Exchange of Academic information. |
| 3 | National Taipei University, New Taipei City, Taiwan | Academic progress, physical relocation and cultural orientation for all exchange students, faculty and researchers. |
| 4 | Woosong University, Daejeon, Republic of Korea | Exchange of Staff, Students, scientific materials, Publications and information, cultural activities, joint conferences and academic programs, research activities and publications. |
| 5 | CBS University of Applied Sciences / CBS International Business School, Germany | Study abroad programs, double degree programs, exchange of faculty, publications, joint research, teaching projects. |
| 6 | Epitech European Institute of Technology, France | Exchange of Students |
| 7 | OTH Regensburg, Germany | Collaboration for faculty and staff for research, lectures, discussions and other academic pursuits. |

# COLLABORATION FOR BEST PRACTICE & CROSS-SECTORAL DIALOGUE ON SDGs

Faculty members of the university participated in cross-sectoral dialogue on the Sustainable Development Goals (SDGs) through research articles presented at international conferences during 2024-2025. By co-authoring papers with researchers from other universities, industry and independent research backgrounds, in India and abroad, they brought different sectors and disciplines together around shared sustainability concerns.

These articles apply AI, IoT and sensor technologies to areas linked to the SDGs, including health (SDG 3), clean energy (SDG 7), industry, innovation and infrastructure (SDG 9), sustainable cities (SDG 11) and strong institutions (SDG 16). The collaborations across institutions and countries also support SDG 17 (Partnerships for the Goals). The resulting publications in conference proceedings record this dialogue and contribute to wider discussion on sustainable development.

The table lists 22 research papers presented at international conferences between 2024 and 2025.

## 1. Thematic Alignment with the SDGs

### SDG 3 – Good Health and Well-Being

- Efficient Diabetic Retinopathy Detection Using CNNs and Transfer Learning (#3)
- Thyroid Health Forecaster: Hybrid Deep Learning for Early Disease Prediction (#5)
- Hybrid Feature Selection and Logistic Regression for Early Diabetes Detection (#11)
- Hybrid Vision Transformer for Medical Image Retrieval (#17)
- IoMT Patient Monitoring with Blockchain and Fog Computing (#22)

These papers use AI for early diagnosis, medical imaging and secure patient monitoring, which supports earlier detection and wider access to care.

### SDG 9 – Industry, Innovation and Infrastructure

- RFID-Enabled Petrol Pump and EV Charging Automation (#1)
- Smart Trolley with RFID-Based Billing (#9)

- Satellite-based Infrastructure Change Detection (#10)
- Optimized Low-Power Mixed-Signal Sensor Systems (#14)
- Cell Congestion Detection in LTE Networks (#20)
- Underwater sensor network optimization (#6, #12)

These papers address resilient infrastructure, automation, communication networks and sensing technologies.

**SDG 2 – Zero Hunger and SDG 12 – Responsible Consumption and Production**

- IoT with Edge Computing-Based Agro-Economic Model for Sustainable Farming (#18)
- Pharmaceutical supply chain security using blockchain (#16)
- Retail efficiency through the smart trolley (#9)

These cover smart agriculture, supply-chain integrity and more efficient retail operations.

**SDG 11 – Sustainable Cities and Communities, and SDG 7 – Affordable and Clean Energy**

- Traffic Sign Recognition using YOLOv8 (#7)
- Indoor security monitoring using IoT (#21)
- EV charging automation (#1)
- Energy-efficient routing in underwater sensor networks (#12)

These support safer urban mobility, smart security and energy-conscious system design.

**SDG 16 – Peace, Justice and Strong Institutions**

- Financial fraud detection using CatBoost with Bayesian optimization (#4)
- Automated fraud detection with stacking ensembles (#8)
- Cyber threat detection with Double DQN-GAMO (#19)
- Anomaly detection in IoT (#13)
- Face recognition and emotion detection (#15)

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These contribute to financial integrity, cybersecurity and trustworthy digital systems.

**SDG 4 – Quality Education**

- Adaptive Learning Systems for English Language Education (#2)

This paper applies AI to personalized, accessible learning.

## 2. Evidence of Cross-Sectoral Collaboration

The collaborator column shows partnerships across several sectors:

- **Academia–Industry:** Stellantis NV (automotive), Hindsight Software Solutions Inc. and HCSC (healthcare services) worked with university researchers.
- **Multi-university partnerships:** The Islamic University (Iraq) appears in many papers and worked with Lamar University, Sacred Heart University, the University of Texas, Kennesaw State University and National Louis University (USA), Queensland University of Technology (Australia) and the University of Auckland (New Zealand).
- **Independent researchers:** The participation of independent researchers shows that the platforms are open to contributors beyond formal institutions.
- **Technology and applied-sciences institutions:** The University of Technology and Applied Sciences (Oman), Acharya University (Uzbekistan), Istanbul Sabahattin Zaim University (Turkey) and Al Ardah Jazan University (Saudi Arabia) widen the range of perspectives.

## 3. Geographic Reach and North–South Dialogue

The country column covers the United States, Iraq, Saudi Arabia, Oman, Turkey, Uzbekistan, Australia and New Zealand. This spread supports **SDG 17 – Partnerships for the Goals**. Researchers from the Middle East and Central Asia work with peers in North America and Oceania, which helps transfer knowledge, build capacity and reduce research isolation. Several papers have multi-country authorship (#7, #8, #19, #22), and these are the clearest examples of international dialogue.

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## 4. The Role of the Conferences

The venues include IEEE, E3S Web of Conferences, AIP Conference Proceedings and thematic events such as ICDCECE, ICICACS, ICSCSA, AVSS and SmartIoT. They act as dialogue platforms in three ways:

1. **Interdisciplinary convergence:** AI, IoT, blockchain, signal processing and communications meet applied domains such as health, agriculture and finance.
2. **Visibility and validation:** Peer-reviewed proceedings give regional and early-career researchers a route into the international literature.
3. **Network formation:** Repeated participation, for example in the ICDCECE and ICICACS editions, shows continued relationships that can turn into sustained collaboration.

## 5. Observations and Gaps

- **Strong clustering around SDGs 3, 9 and 16:** Most papers concern health, infrastructure and security, and there is less direct work on SDG 13 (Climate Action), SDG 6 (Clean Water), SDG 1 (No Poverty) and SDG 5 (Gender Equality).
- **Implicit rather than explicit SDG framing:** The papers are technology-driven. Naming the SDGs explicitly in future work would strengthen policy relevance.
- **Limited representation from some regions:** There are no collaborators from Africa, South Asia or Latin America in the sample shown, so there is room to broaden participation.
- **Concentration in one institution:** The heavy involvement of one institution suggests a strong hub, and it could be balanced with more diverse partnerships.

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| # | Title | Journal | Collaborator's Institution | Country |
|---|---|---|---|---|
| 1 | Design and Implementation of RFID-Enabled Petrol Pump and EV Charging Automation | E3S Web of Conferences | Stellantis NV | United States |
| 2 | Adaptive Learning Systems for English Language Education based on AI-Driven System | 2025 International Conference on Intelligent Systems and Computational Networks (ICISCN) | Al Ardah Jazan University; Jazan University | Saudi Arabia |
| 3 | Efficient Diabetic Retinopathy Detection Using CNNs and Transfer Learning for Feature Extraction and Classification | 2025 6th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI) | Independent Researcher | United States |
| 4 | Detection of Financial Fraud by using Categorical Boosting based Bayesian Optimization | 2025 4th International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE) | The Islamic University | Iraq |
| 5 | Thyroid Health Forecaster: A Cutting-Edge Hybrid Deep Learning Framework for Early Disease Prediction | 2024 International Conference on Sustainable Communication Networks and Application (ICSCNA) | University of North Texas | United States |
| 6 | Optimization of Node Deployment in Underwater Sensor Networks Using Maximum Coverage and Connectivity Self-Deployment Algorithm Based on Particle Swarm Optimization | 2025 3rd International Conference on Integrated Circuits and Communication Systems (ICICACS) | The Islamic University | Iraq |

| | | | | |
|---|---|---|---|---|
| 7 | Traffic Sign Recognition using You Look Only Once Version 8 with Vision Transformer | 2025 4th International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE) | Hindsight Software Solutions Inc; The Islamic University | Iraq; United States |
| 8 | Automated Financial Fraud Detection in Banking Systems based on Stacking Ensemble Model | 2025 4th International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE) | Islamic University of Najaf; National Louis University | Iraq; United States |
| 9 | Enhancing Retail Efficiency with a Smart Trolley: RFID-Based Billing and Bluetooth Integration | 2025 IEEE 4th World Conference on Applied Intelligence and Computing (AIC) | University of Technology and Applied Sciences | Oman |
| 10 | Satellite-based Infrastructure Change Detection using Deep Learning | 2025 5th International Conference on Soft Computing for Security Applications (ICSCSA) | Acharya University | Uzbekistan |
| 11 | A Hybrid Feature Selection and Logistic Regression Approach for High-Accuracy Early Diabetes Detection | 2025 5th International Conference on Soft Computing for Security Applications (ICSCSA) | Lamar University; Sacred Heart University; The University of Texas at Dallas | United States |
| 12 | Energy-Efficient Routing in Underwater Wireless Sensor Networks Using Swarm-Intelligent Cluster Optimization | 2025 3rd International Conference on Data Science and Network Security (ICDSNS) | The Islamic University | Iraq |
| 13 | Anomaly Detection in Internet of Things Using Weighted Botox Optimization Algorithm with Gated Recurrent Unit | 2025 3rd International Conference on Integrated Circuits and Communication | The Islamic University | Iraq |

| | | | | |
|---|---|---|---|---|
| | | Systems (ICICACS) | | |
| 14 | Optimized Low-Power Mixed-Signal Sensor Systems: Improved Cross-Domain Approach to Maintain Classification Accuracy | 2025 3rd International Conference on Integrated Circuits and Communication Systems (ICICACS) | The Islamic University | Iraq |
| 15 | Face Recognition and Emotion Detection in Video Streams using Swin Transformer and EfficientNetV2 | 2025 4th International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE) | Islamic University of Najaf | Iraq |
| 16 | Deep Learning and Blockchain-Driven Security for Pharmaceutical Supply Chains using Genetic Algorithm and SVM | 2025 6th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV) | HCSC | United States |
| 17 | A Hybrid Vision Transformer with Intra-Attention Architecture for Enhanced Medical Image Retrieval | 2025 IEEE International Conference on Advanced Visual and Signal-Based Systems (AVSS) | Istanbul Sabahattin Zaim University | Turkey |
| 18 | IoT with Edge Computing Based Agro-Economic Model for Sustainable Farming | 2025 IEEE International Conference on Advanced Visual and Signal-Based Systems (AVSS) | Kennesaw State University | United States |
| 19 | Double DQN-GAMO: A Cyber Threat Detection Framework for Zero-Day Attacks | 2025 IEEE 50th Conference on Local Computer Networks (LCN) | Queensland University of Technology; University of Auckland | Australia; New Zealand |

| | | | | |
|---|---|---|---|---|
| 20 | Detection and Prevention of Cell Congestion in LTE Networks using Machine Learning Techniques | 2025 International Conference on Modern Sustainable Systems (CMSS) | University of Nizwa | Oman |
| 21 | Internet of things (IoT)-based affordable indoor security monitoring system | AIP Conference Proceedings | The Islamic University | Iraq |
| 22 | IoMT Patient Monitoring with Blockchain and Fog Computing: A Secure and Efficient Architecture | 2025 IEEE International Conference on Smart Internet of Things (SmartIoT) | Queensland University of Technolgy; University of Auckland | Australia; New Zealand |

# Education for the SDGs

## 1. Partnering Universities

Anurag University recognizes partnerships and collaboration as important to advancing sustainable development and addressing shared social, economic and environmental challenges. The University engages with academic institutions, research organizations, government bodies, industry, non-governmental organizations and community organizations to facilitate knowledge exchange, research, education and community engagement.

### e) Indian University

| # | Organisation | Key Focus Ares |
|---|---|---|
| 1 | Sri Konda Laxman Telangana Horticultural University | Capacity Building in Agriculture, Joint Research, and Student Exchange |

### f) Foreign Universities

| # | Organisation | Key Focus Areas |
|---|---|---|
| 1 | National Chung Cheng University, Taiwan R.O.C | Global Education, Student Internship, Faculty Exchange, etc. |
| 2 | Myongji University, Seoul, Republic of Korea | Student/Faculty exchange, Joint research and seminars, Exchange of Academic information. |
| 3 | National Taipei University, New Taipei City, Taiwan | Academic progress, physical relocation and cultural orientation for all exchange students, faculty and researchers. |
| 4 | Woosong University, Daejeon, Republic of Korea | Exchange of Staff, Students, scientific materials, Publications and information, cultural activities, joint conferences and academic programs, research activities and publications. |
| 5 | CBS University of Applied Sciences / CBS International Business School, Germany | Study abroad programs, double degree programs, exchange of faculty, publications, joint research, teaching projects. |

| | | |
|---|---|---|
| 6 | Epitech European Institute of Technology, France | Exchange of Students |
| 7 | OTH Regensburg, Germany | Collaboration for faculty and staff for research, lectures, discussions and other academic pursuits. |

## 2. Partnering Schools

The University engages with school students through science exhibitions, sports activities and health camps conducted in neighbouring schools. These initiatives create awareness among young students about various social, environmental and health-related issues, helping them understand the importance of sustainable development and the 17 Sustainable Development Goals (SDGs).

## 3. Integration of Sustainability into the University Curriculum

Anurag University embeds sustainability, social responsibility, and ethical engineering at the core of its academic framework by integrating SDG-oriented learning across all engineering programmes. A key component of this commitment is the **mandatory "Joy of Engineering" course**, introduced for all first-year engineering students irrespective of discipline, from 2024. This experiential foundation course builds critical observation skills, encourages social immersion, promotes environmental awareness, and nurtures design thinking and innovation. The structured modules—ranging from breaking and making initiatives to social immersion and entrepreneurial problem-solving—ensure that every student develops an understanding of how engineering choices influence society, ecosystems, and long-term sustainability.

**LINKs**

- Sustainability Course - Engineering - All disciplines

  https://drive.google.com/file/d/1dkGzOsHmuXt5M6mIr3j4D5uK3KSCzQHh/view?usp=sharing

- Sustainability Course - Management

  https://drive.google.com/file/d/1mFDenb_LreoZ9G_zHF_8oWhmfpDkhdc1/view?usp=sharing

- Sustainability Course - Renewable Energy (Mechanical Engg)

  https://drive.google.com/file/d/1AmVmMHtxCk51NfP6lHqZqSOeyx_nVhUB/view?usp=sharing

Beyond this university-wide course, Anurag University strengthens SDG education through specialised discipline-specific subjects such as "Renewable Energy," "Environmental Engineering," "Green Technologies," "Professional Ethics,"

"Energy Systems," and similar courses tailored to different branches. These subjects provide deeper technical knowledge and practical skills on clean energy, climate action, sustainable infrastructure, ethical decision-making, and environmental protection. Together, this layered approach ensures that students move from broad awareness in their first year to advanced SDG-relevant technical expertise in higher semesters.

Further reinforcing the university's dedication to community-centric SDG learning is the active participation of students in the National Service Scheme (NSS). NSS is an integral part of the university's educational ecosystem and requires students to engage directly with communities through outreach, awareness programmes, rural development activities, environmental campaigns, health initiatives, and social welfare projects. These activities directly contribute to several SDGs, including SDG 1 (No Poverty), SDG 3 (Good Health & Well-being), SDG 4 (Quality Education), SDG 5 (Gender Equality), SDG 6 (Clean Water & Sanitation), SDG 7 (Clean Energy), SDG 11 (Sustainable Cities & Communities), SDG 13 (Climate Action), and SDG 17 (Partnerships for the Goals).

Through the combined impact of the "Joy of Engineering" course, discipline-specific sustainability subjects, and active NSS-based community service, Anurag University ensures that its graduates are not only technically proficient but also socially conscious, environmentally responsible, and aligned with the global mission of the United Nations Sustainable Development Goals.

## SUSTAINABILITY COURSE – ACROSS ALL ENGINEERING DEGREES

https://drive.google.com/file/d/1dkGzOsHmuXt5M6mIr3j4D5uK3KSCzQHh/view?usp=sharing

ANURAG UNIVERSITY

**Joy of Engineering - I**

| B. Tech I Year I Semester | | | | | Department of Artificial Intelligence | | | |
|---|---|---|---|---|---|---|---|---|
| **Code** | **Category** | **Hours / Week** | | | **Credits** | **Marks** | | |
| **EVA1121** | Exploratory | L | T | P | C | CIE | SEE | Total |
| | | 0 | 0 | 6 | 3 | 80 | 20 | 100 |

| Module number | Module name | Session duration (in hours) | Number of sessions / semesters |
|---|---|---|---|
| 1 | Making Initiative | 6 hours | 3 |
| 2 | Breaking Initiative | 6 hours | 3 |
| 3 | Additive Manufacturing | 6 hours | 3 |
| 4 | Social Immersion | 6 hours | 3 |
| 5 | Design thinking, Innovation and Entrepreneurship | 6 hours | 3 |

| CIE/SEE | Assessment component | When | Marks |
|---|---|---|---|
| CIE | Audio – Video Memoire I | After session 2 of each module | 40 |
| | Audio – Video Memoire II | After Session 3 of each module | 40 |
| SEE | Written "Journal of Exploration | Semester End | 20 |
| Overall | Each module will be assessed for 80 marks for CIE and an average will be taken. Similarly, each module will be assessed for 20 marks for SEE and average will be taken | | |

**Course Outcomes**

At the end of this course, the student will be able to:

1. Critically observe critically a phenomenon / case / context / situation / task / problem / project
2. Explore social, environmental, technical, historical, engineering, other related aspects
3. Record the observations / inferences / challenges in an audio / video / written chronicle

**Module 1: Breaking Initiative**

Open up / disintegrate / break up any tangible thing / task to explore about its components / ingredients / working / historical / environmental / technical / engineering / social aspects

**Module 2: Making Initiative**

Assemble / integrate any tangible thing / task to explore how that thing/ task can be performed in an optimal way

**Module 3: Additive Manufacturing**

Explore about various aspects of 3D printing / scanning by using various models / materials / processes / optimizing costs / time

**Module 4: Social immersion**

Explore about social and environmental aspects of technology / engineering, its adaptation / adoption / optimization

**Module 5: Design thinking, Innovation and Entrepreneurship**

Explore about ideation, Design thinking steps, entrepreneurial thinking, business models, entrepreneurial failures

# Artificial Intelligence

| 1st year 1st semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1101 | Theoretical (BS) | Linear Algebra and Calculus | 3 | 1 | 0 | 4 |
| 2 | EMD1X06 | Theoretical & Practical (BS) | Engineering Chemistry | 3 | 0 | 2 | 4 |
| 3 | EMI1X04 | Theoretical & Practical (ES) | Basic Electrical and Electronics Engineering | 2 | 0 | 2 | 3 |
| 4 | EMA1102 | Theoretical & Practical (ES) | Programming in C | 3 | 0 | 2 | 4 |
| 5 | EAE1X23 | Practical (HS) | Effective Communication Skills | 0 | 0 | 2 | 1 |
| 6 | EVA1121 | Exploratory (ES) | Joy of Engineering - I | 0 | 0 | 6 | 3 |
| 7 | ESE1125 | Practical (PC) | Data Analytics Practices | 0 | 0 | 2 | 1 |
| | | | **Total** | **11** | **1** | **16** | **20** |

| 1st year 2nd semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1201 | Theoretical (BS) | Ordinary Differential Equations and Numerical Techniques | 3 | 1 | 0 | 4 |
| 2 | EMD1X07 | Theoretical & Practical (BS) | Engineering Physics | 3 | 0 | 2 | 4 |
| 3 | EMA1204 | Theoretical & Practical (ES) | Data Structures | 3 | 0 | 2 | 4 |
| 4 | EAE1X02 | Theoretical & Practical (HS) | Empowering with English Language Skills | 2 | 0 | 2 | 3 |
| 5 | EVA1221 | Exploratory (ES) | Joy of Engineering - II | 0 | 0 | 6 | 3 |
| 6 | EMA1224 | Practical (PC) | Introduction to Generative AI | 1 | 0 | 2 | 2 |
| | | | **Total** | **12** | **1** | **14** | **20** |

BS – Basic Sciences, ES- Engineering Sciences, HS-Humanities and Social Sciences, PC-Professional Core.

# Computer Science and Engineering

| 1st year 1st semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1101 | Theoretical (BS) | Linear Algebra and Calculus | 3 | 1 | 0 | 4 |
| 2 | EMD1X07 | Theoretical & Practical (BS) | Engineering Physics | 3 | 0 | 2 | 4 |
| 3 | EAE1X02 | Theoretical & Practical (HS) | Empowering with English Language Skills | 2 | 0 | 2 | 3 |
| 4 | EMA1102 | Theoretical & Practical (ES) | Programming in C | 3 | 0 | 2 | 4 |
| 5 | EVA1121 | Exploratory (ES) | Joy of Engineering - I | 0 | 0 | 6 | 3 |
| 6 | EMI1X24 | MOOCS (PC) | Emerging Technologies | 0 | 2 | 0 | 2 |
| | | | **Total** | **11** | **3** | **12** | **20** |

| 1st year 2nd semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1202 | Theoretical (BS) | Ordinary Differential Equations and Vector Calculus | 3 | 1 | 0 | 4 |
| 2 | EMD1X06 | Theoretical & Practical (BS) | Engineering Chemistry | 3 | 0 | 2 | 4 |
| 3 | EMI1X04 | Theoretical & Practical (ES) | Basic Electrical and Electronics Engineering | 2 | 0 | 2 | 3 |
| 4 | EMA1204 | Theoretical & Practical (ES) | Data Structures | 3 | 0 | 2 | 4 |
| 5 | EAE1X23 | Practical (HS) | Effective Communication Skills | 0 | 0 | 2 | 1 |
| 6 | EVA1221 | Exploratory (ES) | Joy of Engineering - II | 0 | 0 | 6 | 3 |
| 7 | EVA1222 | Exploratory (PC) | Problem Solving using Global Coding Platform | 0 | 1 | 0 | 1 |
| | | | **Total** | **11** | **2** | **14** | **20** |

BS – Basic Sciences, ES- Engineering Sciences, HS-Humanities and Social Sciences, PC-Professional Core.

ANURAG UNIVERSITY

# CSE (Data Science)

| 1st year 1st semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1101 | Theoretical (BS) | Linear Algebra and Calculus | 3 | 1 | 0 | 4 |
| 2 | EMD1X06 | Theoretical & Practical (BS) | Engineering Chemistry | 3 | 0 | 2 | 4 |
| 3 | EMI1X04 | Theoretical & Practical (ES) | Basic Electrical and Electronics Engineering | 2 | 0 | 2 | 3 |
| 4 | EMA1102 | Theoretical & Practical (ES) | Programming in C | 3 | 0 | 2 | 4 |
| 5 | EAE1X23 | Practical (HS) | Effective Communication Skills | 0 | 0 | 2 | 1 |
| 6 | EVA1121 | Exploratory (ES) | Joy of Engineering - I | 0 | 0 | 6 | 3 |
| 7 | ESE1125 | Practical (PC) | Data Analytics Practices | 0 | 0 | 2 | 1 |
| | | | **Total** | **11** | **1** | **16** | **20** |

| 1st year 2nd semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1201 | Theoretical (BS) | Ordinary Differential Equations and Numerical Techniques | 3 | 1 | 0 | 4 |
| 2 | EMD1X07 | Theoretical & Practical (BS) | Engineering Physics | 3 | 0 | 2 | 4 |
| 3 | EMA1204 | Theoretical & Practical (ES) | Data Structures | 3 | 0 | 2 | 4 |
| 4 | EAE1X02 | Theoretical & Practical (HS) | Empowering with English Language Skills | 2 | 0 | 2 | 3 |
| 5 | EVA1221 | Exploratory (ES) | Joy of Engineering - II | 0 | 0 | 6 | 3 |
| 6 | EMI1206 | Theoretical (BS) | Statistical foundations for Data Science | 2 | 0 | 0 | 2 |
| | | | **Total** | **13** | **1** | **12** | **20** |

BS – Basic Sciences, ES- Engineering Sciences, HS-Humanities and Social Sciences, PC-Professional Core.

# CSE (Cyber Security)

| 1st year 1st semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1101 | Theoretical (BS) | Linear Algebra and Calculus | 3 | 1 | 0 | 4 |
| 2 | EMD1X06 | Theoretical & Practical (BS) | Engineering Chemistry | 3 | 0 | 2 | 4 |
| 3 | EMI1X04 | Theoretical & Practical (ES) | Basic Electrical and Electronics Engineering | 2 | 0 | 2 | 3 |
| 4 | EMA1102 | Theoretical & Practical (ES) | Programming in C | 3 | 0 | 2 | 4 |
| 5 | EAE1X23 | Practical (HS) | Effective Communication Skills | 0 | 0 | 2 | 1 |
| 6 | EVA1121 | Exploratory (ES) | Joy of Engineering - I | 0 | 0 | 6 | 3 |
| 7 | EMA1120 | Exploratory (PC) | Essentials of Cyber Security | 1 | 0 | 0 | 1 |
| | | | **Total** | **12** | **1** | **14** | **20** |

| 1st year 2nd semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1201 | Theoretical (BS) | Ordinary Differential Equations and Numerical Techniques | 3 | 1 | 0 | 4 |
| 2 | EMD1X07 | Theoretical & Practical (BS) | Engineering Physics | 3 | 0 | 2 | 4 |
| 3 | EAE1X02 | Theoretical & Practical (HS) | Empowering with English Language Skills | 2 | 0 | 2 | 3 |
| 4 | EMA1204 | Theoretical & Practical (ES) | Data Structures | 3 | 0 | 2 | 4 |
| 5 | EVA1221 | Exploratory (ES) | Joy of Engineering - II | 0 | 0 | 6 | 3 |
| 6 | EMA1207 | Practical (PC) | Linux Programming | 1 | 0 | 2 | 2 |
| | | | **Total** | **12** | **1** | **14** | **20** |

BS – Basic Sciences, ES- Engineering Sciences, HS-Humanities and Social Sciences, PC-Professional Core.

ANURAG UNIVERSITY

# Information Technology

| 1st year 1st semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1101 | Theoretical (BS) | Linear Algebra and Calculus | 3 | 1 | 0 | 4 |
| 2 | EMD1X06 | Theoretical & Practical (BS) | Engineering Chemistry | 3 | 0 | 2 | 4 |
| 3 | EMI1X04 | Theoretical & Practical (ES) | Basic Electrical and Electronics Engineering | 2 | 0 | 2 | 3 |
| 4 | EMA1102 | Theoretical & Practical (ES) | Programming in C | 3 | 0 | 2 | 4 |
| 5 | EAE1X23 | Practical (HS) | Effective Communication Skills | 0 | 0 | 2 | 1 |
| 6 | EVA1121 | Exploratory (ES) | Joy of Engineering - I | 0 | 0 | 6 | 3 |
| 7 | EMA1119 | Exploratory (PC) | Essentials of Information Technology | 1 | 0 | 0 | 1 |
| | | | **Total** | **12** | **1** | **14** | **20** |

| 1st year 2nd semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1201 | Theoretical (BS) | Ordinary Differential Equations and Numerical Techniques | 3 | 1 | 0 | 4 |
| 2 | EMD1X07 | Theoretical & Practical (BS) | Engineering Physics | 3 | 0 | 2 | 4 |
| 3 | EAE1X02 | Theoretical & Practical (HS) | Empowering with English Language Skills | 2 | 0 | 2 | 3 |
| 4 | EMA1204 | Theoretical & Practical (ES) | Data Structures | 3 | 0 | 2 | 4 |
| 5 | EVA1221 | Exploratory (ES) | Joy of Engineering - II | 0 | 0 | 6 | 3 |
| 6 | EMA1207 | Practical (PC) | Linux Programming | 1 | 0 | 2 | 2 |
| | | | **Total** | **12** | **1** | **14** | **20** |

BS – Basic Sciences, ES- Engineering Sciences, HS-Humanities and Social Sciences, PC-Professional Core.

# Electrical & Electronics Engineering

| 1st year 1st semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1101 | Theoretical (BS) | Linear Algebra and Calculus | 3 | 1 | 0 | 4 |
| 2 | EMD1X06 | Theoretical & Practical (BS) | Engineering Chemistry | 3 | 0 | 2 | 4 |
| 3 | EMA1102 | Theoretical & Practical (ES) | Programming in C | 3 | 0 | 2 | 4 |
| 4 | EMI1X04 | Theoretical & Practical (ES) | Basic Electrical and Electronics Engineering | 2 | 0 | 2 | 3 |
| 5 | EVA1121 | Exploratory (ES) | Joy of Engineering - I | 0 | 0 | 6 | 3 |
| 6 | EMA1107 | Theoretical (PC) | Energy, Environment and Sustainability | 2 | 0 | 0 | 2 |
| | | | **Total** | **13** | **1** | **12** | **20** |

| 1st year 2nd semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1202 | Theoretical (BS) | Ordinary Differential Equations and Vector Calculus | 3 | 1 | 0 | 4 |
| 2 | EMD1X07 | Theoretical & Practical (BS) | Engineering Physics | 3 | 0 | 2 | 4 |
| 3 | EMA1204 | Theoretical & Practical (ES) | Data Structures | 3 | 0 | 2 | 4 |
| 4 | EAE1X02 | Theoretical & Practical (HS) | Empowering with English Language Skills | 2 | 0 | 2 | 3 |
| 5 | EVA1221 | Exploratory (ES) | Joy of Engineering - II | 0 | 0 | 6 | 3 |
| 6 | EMA1206 | Theoretical (PC) | Electrical Circuits | 2 | 0 | 0 | 2 |
| | | | **Total** | **13** | **1** | **12** | **20** |

BS – Basic Sciences, ES- Engineering Sciences, HS-Humanities and Social Sciences, PC-Professional Core.

ANURAG UNIVERSITY

# Electronics & Communication Engineering

| 1st year 1st semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1101 | Theoretical (BS) | Linear Algebra and Calculus | 3 | 1 | 0 | 4 |
| 2 | EMD1X07 | Theoretical & Practical (BS) | Engineering Physics | 3 | 0 | 2 | 4 |
| 3 | EAE1X02 | Theoretical & Practical (HS) | Empowering with English Language Skills | 2 | 0 | 2 | 3 |
| 4 | EMA1102 | Theoretical & Practical (ES) | Programming in C | 3 | 0 | 2 | 4 |
| 5 | EVA1121 | Exploratory (ES) | Joy of Engineering - I | 0 | 0 | 6 | 3 |
| 6 | EMA1107 | Theoretical (PC) | Energy, Environment and Sustainability | 2 | 0 | 0 | 2 |
| | | | **Total** | **13** | **1** | **12** | **20** |

| 1st year 2nd semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1202 | Theoretical (BS) | Ordinary Differential Equations and Vector Calculus | 3 | 1 | 0 | 4 |
| 2 | EMD1X06 | Theoretical & Practical (BS) | Engineering Chemistry | 3 | 0 | 2 | 4 |
| 3 | EMA1204 | Theoretical & Practical (ES) | Data Structures | 3 | 0 | 2 | 4 |
| 4 | EMI1X04 | Theoretical & Practical (ES) | Basic Electrical and Electronics Engineering | 2 | 0 | 2 | 3 |
| 5 | EAE1X23 | Practical (HS) | Effective Communication Skills | 0 | 0 | 2 | 1 |
| 6 | EVA1221 | Exploratory (ES) | Joy of Engineering - II | 0 | 0 | 6 | 3 |
| 7 | EMA1223 | Exploratory (PC) | Familiarization of Electronic Components and Instruments | 0 | 1 | 0 | 1 |
| | | | **Total** | **11** | **2** | **14** | **20** |

BS – Basic Sciences, ES- Engineering Sciences, HS-Humanities and Social Sciences, PC-Professional Core.

# Civil Engineering

| 1st year 1st semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1101 | Theoretical (BS) | Linear Algebra and Calculus | 3 | 1 | 0 | 4 |
| 2 | EMD1X06 | Theoretical & Practical (BS) | Engineering Chemistry | 3 | 0 | 2 | 4 |
| 3 | EMI1X04 | Theoretical & Practical (ES) | Basic Electrical and Electronics Engineering | 2 | 0 | 2 | 3 |
| 4 | EMA1102 | Theoretical & Practical (ES) | Programming in C | 3 | 0 | 2 | 4 |
| 5 | EVA1121 | Exploratory (ES) | Joy of Engineering - I | 0 | 0 | 6 | 3 |
| 6 | EMA1101 | Theoretical (PC) | Engineering Mechanics - I | 2 | 0 | 0 | 2 |
| | | | **Total** | **13** | **1** | **12** | **20** |

| 1st year 2nd semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1202 | Theoretical (BS) | Ordinary Differential Equations and Vector Calculus | 3 | 1 | 0 | 4 |
| 2 | EMD1X07 | Theoretical & Practical (BS) | Engineering Physics | 3 | 0 | 2 | 4 |
| 3 | EMA1204 | Theoretical & Practical (ES) | Data Structures | 3 | 0 | 2 | 4 |
| 4 | EAE1X02 | Theoretical & Practical (HS) | Empowering with English Language Skills | 2 | 0 | 2 | 3 |
| 5 | EVA1221 | Exploratory (ES) | Joy of Engineering - II | 0 | 0 | 6 | 3 |
| 6 | EMA1201 | Theoretical (PC) | Engineering Mechanics - II | 2 | 0 | 0 | 2 |
| | | | **Total** | **13** | **1** | **12** | **20** |

BS – Basic Sciences, ES- Engineering Sciences, HS-Humanities and Social Sciences, PC-Professional Core.

# Mechanical Engineering

| 1st year 1st semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1101 | Theoretical (BS) | Linear Algebra and Calculus | 3 | 1 | 0 | 4 |
| 2 | EMD1X06 | Theoretical & Practical (BS) | Engineering Chemistry | 3 | 0 | 2 | 4 |
| 3 | EAE1X02 | Theoretical & Practical (HS) | Empowering with English Language Skills | 2 | 0 | 2 | 3 |
| 4 | EMA1102 | Theoretical & Practical (ES) | Programming in C | 3 | 0 | 2 | 4 |
| 5 | EVA1121 | Exploratory (ES) | Joy of Engineering - I | 0 | 0 | 6 | 3 |
| 6 | EMA1105 | Theoretical (PC) | Engineering Mechanics | 2 | 0 | 0 | 2 |
| | | | **Total** | **13** | **1** | **12** | **20** |

| 1st year 2nd semester | | | | | | | |
|---|---|---|---|---|---|---|---|
| S.No | Code | Category | Course Title | Hours/Week | | | Credits |
| | | | | Lecture | Tutorial | Practical | |
| 1 | EMI1202 | Theoretical (BS) | Ordinary Differential Equations and Vector Calculus | 3 | 1 | 0 | 4 |
| 2 | EMD1X07 | Theoretical & Practical (BS) | Engineering Physics | 3 | 0 | 2 | 4 |
| 3 | EMA1204 | Theoretical & Practical (ES) | Data Structures | 3 | 0 | 2 | 4 |
| 4 | EAE1X23 | Practical (HS) | Effective Communication Skills | 0 | 0 | 2 | 1 |
| 5 | EMI1X04 | Theoretical & Practical (ES) | Basic Electrical and Electronics Engineering | 2 | 0 | 2 | 3 |
| 6 | EVA1221 | Exploratory (ES) | Joy of Engineering - II | 0 | 0 | 6 | 3 |
| 7 | ESE1222 | Practical (PC) | Engineering Graphics | 0 | 0 | 2 | 1 |
| | | | **Total** | **11** | **1** | **16** | **20** |

BS – Basic Sciences, ES- Engineering Sciences, HS-Humanities and Social Sciences, PC-Professional Core.

**DISCIPLINE SPECIFIC COURSES**

**Mechanical Engineering**

**LINK:**
https://drive.google.com/file/d/1AmVmMHtxCk51NfP6lHqZqSOeyx_nVhUB/view?usp=sharing

**Program Structure and Syllabus of**

**B. Tech II, III & IV Years**

# Mechanical Engineering

R22 Regulations

Venkatapur (V), Ghatkesar (M), Medchal-Malkajgiri (Dt.),
Hyderabad, Telangana, INDIA
info@anurag.edu.in; http://anurag.edu.in

## B. TECH III YEAR I SEMESTER

| S. No | Course Code | Category | Course | Hours per week | | | Credits |
|---|---|---|---|---|---|---|---|
| | | | | L | T | P | |
| 1 | A55013 | PCC | Design of Machine Elements-I | 2 | 1 | 0 | 3 |
| 2 | A55014 | PCC | Manufacturing Technologies | 3 | 0 | 0 | 3 |
| 3 | A55015 | PCC | Engineering Metrology & Surface Engineering | 3 | 0 | 0 | 3 |
| 4 | A55016 | PCC | Applied Thermodynamics-II | 2 | 1 | 0 | 3 |
| 5 | A55017<br>A55018<br><br><br>A55019 | PEC - I | 1. Automation in Manufacturing<br>2. Industrial Engineering and Product Life Cycle Management<br>3. Renewable Energy and Waste Heat Recovery Systems | 3 | 0 | 0 | 3 |
| 6 | A55288 | HSMC | Quantitative Aptitude and Reasoning. | 0 | 0 | 3 | 1.5 |
| 7 | A55240 | HSMC | Soft Skills for Success Lab. | 0 | 0 | 3 | 1.5 |
| 8 | A55204 | PCC | Manufacturing Technologies Lab. | 0 | 0 | 2 | 1 |
| 9 | A55205 | PCC | Applied Thermodynamics Lab. | 0 | 0 | 2 | 1 |
| | | | TOTAL | **13** | **2** | **10** | **20** |

**Academic Regulations for MBA (Regular) with effect from the Academic Year 2022-23**

**LINK:**
https://drive.google.com/file/d/1mFDenb_LreoZ9G_zHF_8oWhmfpDkhdc1/view?usp=sharing

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## Academic Regulations for MBA (Regular) with effect from the Academic Year 2022-23

**1. Title and Duration of the Program**

1.1 The program shall be called Master of Business Administration, abbreviated as MBA with duration of 2 years.

1.2 The MBA program duration shall be two academic years divided into Six Trimesters/Terms and each Term having 12-14 weeks of instruction including examinations.

1.3 Students admitted to the MBA program shall have to complete the course of study within a maximum timeframe of 4 years from the year of admission. Otherwise, they shall forfeit their admission.

**2. Admission Procedure**

2.1. A candidate for admission to the MBA program must have completed his/her Bachelor's degree with a minimum of 55% marks in aggregate from a recognized university by the Anurag University as equivalent thereto.

2.2. All the eligible applicants satisfying 2.1 shall be governed by the following admission policy:

Note: *The Anurag Group of Institutions (AGI) is an existing institution which is established as Anurag University under the Telangana State Private Universities Act (Establishment and Regulations) No.11 of 2018.*

2.3 Admissions to the MBA programs will be based on a rank in the Anurag University Common Entrance Test, or on marks or percentile secured in CAT / MAT / XAT / CMAT / GMAT / HBSAT/ICET or any other test recognized by Anurag University.

2.4. The rule of reservation in admission to the MBA program will be held as per Section 33 of the Telangana State Private Universities Act No. 11 of 2018, and Rule 10 of the G.O.Ms. No. 26 [Higher Education (UE.1) Department], Dt.20-08-2019.

2.5 Admission and Other fees will be as specified by AU from time to time as per the Act.

**3. Credits**

The following is the credit allocation table.

| Course | Credits |
|---|---|
| 1 Hour Lecture (L) per week | 1 |
| 1 Hour Tutorial (T) per week | 1 |
| 2 Hour Practical (P) per week | 1 |
| Internship / Project | 4 |
| Social Immersion Project | 1 |
| Specialization Project | 1 |
| Company Analysis Report | 1 |

**4. Distribution and Weightage of Marks**

4.1 The performance of a student in a Term shall be evaluated course-wise for a maximum of 100 marks in each theory and practical course. In addition, Internship / Project, Specialization Project, Company Analysis Report, Social Immersion Project shall be evaluated for 100 marks each.

4.2 For theory courses the distribution shall be 60 marks for Continuous Internal Evaluation (CIE) and 40 marks for the Term End Examination (TEE).

| Components | Maximum Marks |
|---|---|
| **Internal Examination Assessment** | |
| Continuous Internal Assessment | 20 |
| Mid Term Examination | 25 |
| Class Participation | 15 |
| **Term End Examinations** | 40 |
| Total Marks | 100 |

4.3 The distribution of marks for Continuous Internal Evaluation (CIE) and the Term End Examination (TEE) along with the minimum pass percentage shall be as follows:

| Course | Continuous Internal Evaluation (CIE) | End Term Examination (TEE) | Minimum Academic Requirement to Pass a course | |
|---|---|---|---|---|
| | | | *Minimum Pass Percentage (TEE) | *Minimum Pass Percentage (CIE+TEE) |
| Theory | 60 | 40 | 50 | 50 |
| Laboratory | 60 | 40 | 50 | 50 |
| Company Analysis Report | 100 | 0 | - | 50 |
| Social Immersion Project | 100 | 0 | - | 50 |
| Internship / Project | 60 | 40 | 50 | 50 |
| Specialization Project | 100 | - | - | 50 |

* A relaxation of 10% of maximum marks shall be given to physically challenged students.

**4.3.1 Continuous Internal Evaluation (CIE)**

The CIE for Theory and Laboratory Courses is for 60 marks each. Theory courses have two components of Assignments and Mid Term examinations.

**a) Mid-term examination:**

For theory subjects, there shall be one mid-term examinations in each term for 25 marks as a part of continuous evaluation. Each mid-term examination shall be conducted for the duration of 90 minutes and the question paper consists of Part-A, contains 5 questions, each carrying 2 marks (Short Answers) for 10 marks and Part-B (Long Answers) for 15 marks. Part-B shall contain 5 questions of which the student has to attempt 3 questions; each question carrying 5 marks.

Mid-term examination shall be conducted for 2.5 units of syllabus at the end of 6-7 weeks of instruction.

There shall be an optional second mid-term examination during the preparation cum external practical examinations period or during external examination subject to the following conditions:

MBA I YEAR I TRIMESTER [7L + 3 P ]

| S. No | Code | Category | Course | Hours per week | | | Credits |
|---|---|---|---|---|---|---|---|
| | | | | L | T | P | |
| 1 | A212001 | Core | Organization Behaviour-I | 2 | 0 | 0 | 2 |
| 2 | A212002 | Core | Financial Accounting and Analysis | 3 | 0 | 0 | 3 |
| 3 | A212003 | Core | Marketing Management I | 3 | 0 | 0 | 3 |
| 4 | A212004 | LC | Business Communications | 3 | 0 | 0 | 3 |
| 5 | A212005 | SEC | Statistics for Business Decision Making | 3 | 0 | 0 | 3 |
| 6 | A212006 | Core | Micro Economics | 3 | 0 | 0 | 3 |
| 7 | A212008 | Core | Legal Aspects of Business | 2 | 0 | 0 | 2 |
| 8 | A212022 | SEC | Productive tools lab | 0 | 0 | 2 | 1 |
| | | | **Managerial Competency** | | | | |
| 9 | A212024 | SEC | Company analysis report | 0 | 0 | 2 | 1 |
| 10 | A212023 | SEC | Approaches to Thinking | 0 | 0 | 2 | 1 |
| | | | **TOTAL** | **19** | **0** | **6** | **22** |

MBA I YEAR II TRIMESTER [6L +2P+1 Project]

| S. No | Code | Category | Course | Hours per week | | | Credits |
|---|---|---|---|---|---|---|---|
| | | | | L | T | P | |
| 1 | A222001 | Core | Marketing Management – II | 3 | 0 | 0 | 3 |
| 2 | A222002 | Core | Financial Management | 3 | 0 | 0 | 3 |
| 3 | A222003 | Core | Operations Research | 3 | 0 | 0 | 3 |
| 4 | A222004 | Core | Human Resource Management | 3 | 0 | 0 | 3 |
| 5 | A222007 | Core | Organizational Behaviour - II | 2 | 0 | 0 | 2 |
| 6 | A222008 | Core | Macro economics | 2 | 0 | 0 | 2 |
| 7 | A222022 | LC | English communication skills Lab | 0 | 0 | 2 | 1 |
| | | | **Managerial Competency** | | | | |
| 8 | A222023 | SEC | Aesthetics | 0 | 0 | 2 | 1 |
| | A222024 | Proj | Social Immersion Project | 0 | 0 | 2 | 1 |
| | | | **TOTAL** | **16** | **0** | **6** | **19** |

# Social Immersion Project

| MBA I Year II Trimester | | | | | School of Management | | | |
|---|---|---|---|---|---|---|---|---|
| Code | Category | Hours / Week | | | Credits | Marks | | |
| A222024 | Project | L | T | P | C | CIE | TEE | Total |
| | | 0 | 0 | 2 | 1 | 60 | 40 | 100 |

## Course Objective

The objective of the course is to introduce students to various aspects of society/ an institution enterprise. Students have to identify any problem or issue and offer their suggestions to solve the problem. A report has to be presented at the end of the term by the student.