



7.2.1 BEST PRACTICE-1

TITLE OF THE PRACTICE: Fostering Innovation through Industry-Institute Collaborations.

OBJECTIVES OF THE PRACTICE:

- Promote student research initiatives by creating a curriculum that aligns with industry needs and offers support through projects and financial backing.
- Empower aspiring student entrepreneurs by providing a nurturing environment and resources necessary to turn their innovative ideas into successful startups.
- Foster joint research projects between faculty and industry experts for applied research and development.
- Provide industry exposure through internships and training for employability.

THE CONTEXT:

MGIT emphasizes innovation via Industry-Institute Collaborations, aligning education with market needs and fostering practical skills. Initiatives including internships, custom curriculum, Entrepreneurship Programs, Innovation Council, and Idea Incubator Club nurture innovation, preparing students for the job market.

THE PRACTICES:

The institute is dedicated to nurturing students & faculty in all dimensions, fostering their academic, personal, and professional growth through a range of practices:

I. Cultivating Research-Oriented Thinking and Curriculum Refinement:

The institution established a committee, Board of Studies (BoS) comprising faculty members, industry and academic experts, alumni and parents. This diverse group collaborates to design and enhance the curriculum to meet current industry needs and academic standards. This ensures that the latest advancements and industry-relevant topics are incorporated into the coursework.

II. Innovation through Skill Enhancement Programmes:

MGIT promptly identifies industry-relevant skills and to keep students and faculty up-to-date it conducts workshops, bootcamps, and guest lectures with experts from outside. After successful completion, students receive certifications that enhance their resumes, highlighting their knowledge, commitment to improvement and readiness for the job market.

III. Institution Innovation Council



Innovation and Incubation Center (IIC) comprises 17 dedicated faculty and 27 student coordinators. The IIC's 2021-22 activity report, known as IIC4.0 showcases the center's continuous commitment to nurturing innovation, entrepreneurship, and excellence.

IV. Entrepreneurship Development Cell

MGIT's Entrepreneurship Development Cell supports entrepreneurship through skill development, project guidance, and fostering enterprise. It promotes collaboration among academia, industry, and research, empowering students to start ventures, assist SMEs, and boost innovation and economic growth.

V. Exchange programs

The institution actively seeks MoUs for industry-academia collaboration. Partnerships with TASK, Honeywell, ICT Academy, Cisco, CIGNITI, and Skyroot Aerospace provide students with vital skills, certifications, and practical exposure for diverse fields.

VI. Placements & Internships

MGIT's Career Development Cell and Industry Institute partnership are pivotal in preparing students for the dynamic job market. They provide comprehensive guidance, enrich skills to meet industry demands, and actively seek diverse employment opportunities. Alumni feedback informs curriculum and training improvements, ensuring relevance. MGIT emphasizes holistic development with soft skills, team management, confidence-building, and communication training.

VII. Fostering Innovation and Research Excellence through R&D Initiatives

MGIT, recognized by JNTUH, Hyderabad, as a research centre, focuses on technology- driven research for societal issues. The Institute has set up an R&D cell to foster innovation. This includes funding programs for 4th year undergraduates and 2nd Semester postgraduates, especially those in hardware development, providing Rs 10,000 to Rs 20,000 support.

EVIDENCE OF SUCCESS:

The on-going implementation of the above initiatives has a transformative impact on the Institution and its students.

- The curriculum was revised to align with industry demands, equipping students with relevant and up-to-date knowledge and skills.
- Workshops, internships, and research projects with industry professionals provided practical experiences and insights into real-world challenges.
- The Idea Incubator Club fostered entrepreneurship and innovation among students.
- Exchange programs and MoUs with industry partners offered global exposure and networking opportunities, enhancing students' career prospects.

With a proactive approach to industry-academia collaboration, the institution successfully bridged the skill gap and prepared students for success in the competitive job market.



a) Higher Studies

These students embarked on diverse pathways, pursuing degrees such as MBA, M.Tech, and M.S., Ph.D. at renowned institutions including

Foreign Universities: Cornell University, TU – Darmstadt & Freiberg, University of Alabama-Birmingham, National School of Mechanics and Aerotechnics – France, Northwest Missouri State University - USA, University of Central Missouri - LEES Summit, Missouri – USA.

National Universities: IIT – Madras, Kharagpur, Hyderabad, BHU, University of Hyderabad, NIT – Surathkal, Tiruchirappalli, Warangal

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ESCP
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CONOMICS

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BRUSSELS | LONDON | HANNOVER | ENBAKE | TAMER | HANNOVER

CERTIFICATE OF ENROLMENT

The undersigned, Muriel GRANDJEAN,
Head of Admissions Department of ESCP,
hereby certifies that:

Lailani Nurachis Kertaji La Niswari Ningsihaputra NUTULAPATI
born on 11/11/1997
in Hyderabad, India

has been admitted as a graduate student in Master in Management programme.

The duration of the programme is 2 years from 06th September 2021 to 31st August 2023, with 20 weekly hours of instruction, not counting compulsory professional experience (minimum of 36 weeks).

The student will receive the ESCP Europe Master in Management degree, recognized by the French Ministry.

In order to confirm her/his enrolment, the student has already paid the amount of €5,000 (not refundable) corresponding to the first payment of the first year of studies.

The tuition fees amount for the academic year 2021-2022 : €21.850.

We will gladly provide additional information if required.

Paris, 23/06/2021

Muriel GRANDJEAN
Head of Admissions





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Students Research projects:

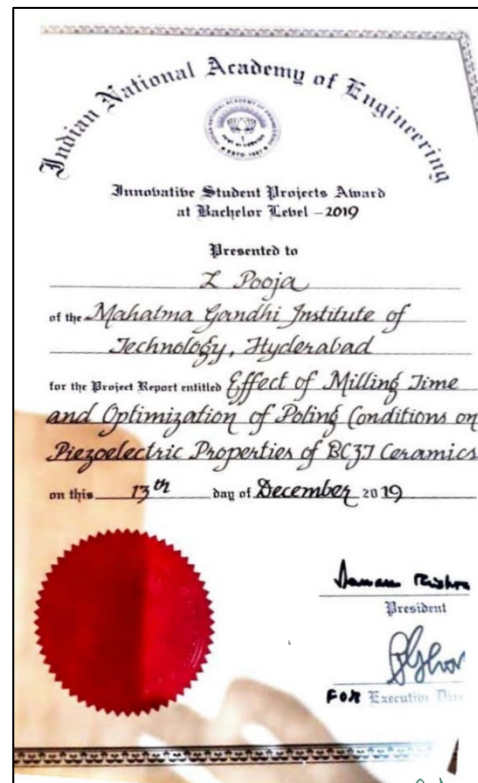
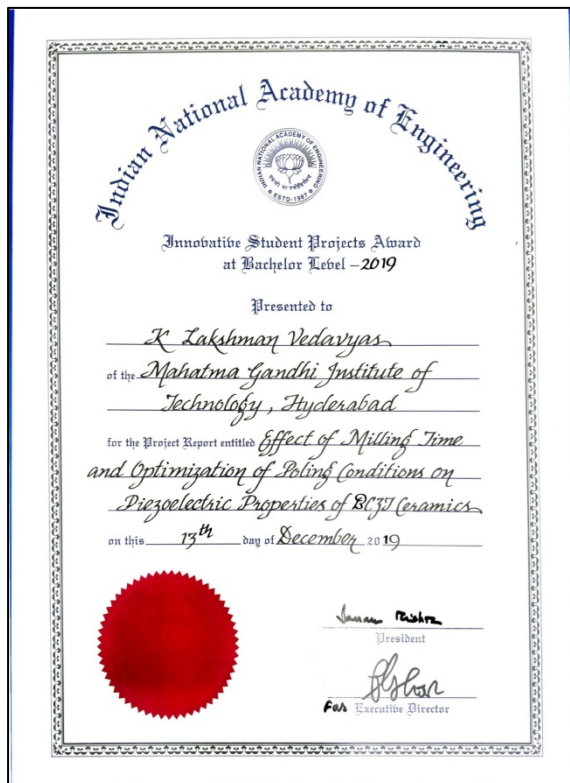
1. The students from Mechanical Engineering Department through the club of Society of Automotive Engineering (SAE) participated in the **BAJA 2021** event by presenting a prototype. Department exemplified the institution's dedication to fostering hands-on learning and preparing students to confront real-world complexities in their chosen field. EDC encouraged BAJA team to make it into a startup.



2. FMAE Baja Vehicle: MGIT students received first Prize of Rs. 50,000/- in the Inter College Robotic Competition – 2021 (Robothon) organized by Military College of Electronics and Mechanical Engineering (MCEME), Indian Army on 17th to 18th December 2021, by her excellency the Hon'ble Governor of Telangana & LT Governor of Puducherry Dr (Mrs). TAMILAISAI Soundararajan.



3. INAE Innovative Student Projects Award 2019 - awarded to UG Mechatronics project titled “Path Correcting Multipurpose Agricultural Robot” and to UG Metallurgical and Materials Engineering project titled “Effect of Milling Time and Optimization of Poling Conditions on Piezoelectric Properties of BCZT Ceramics”. K Lakshman Vedavyas & L Pooja of MME department were felicitated with the Engineering Excellence Award 2019 at the Annual Convention of INAE held at Jaipur.



4. A patent on “A SHOE INSOLE TO HEAL DIABETIC FOOT ULCERS AND METHOD OF MANUFACTURING THEREOF” has been filed and granted to students of the department of MME on 10/06/2022.

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141035407 A

(19) INDIA

(22) Date of filing of Application :05/08/2021

(43) Publication Date : 10/06/2022

(54) Title of the invention : A SHOE INSOLE TO HEAL DIABETIC FOOT ULCERS AND METHOD OF MANUFACTURE THEREOF

(51) International classification A61B0005103000, A43B0003000000, A61B0009000000, A61K0049000000, A43B0007340000 (86) International Application No Filing Date 01/01/1980 (87) International Publication No Filing Date NA (81) Patent of Addition to Application Number Filing Date NA (82) Demand to Application Number Filing Date NA	(71)Name of Applicant : 1)MAHATMA GANDHI INSTITUTE OF TECHNOLOGY Address of Applicant :Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Rang Reddy Dist., Hyderabad - 500073, Telangana, India. ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)PATEL, Badari Narayana Address of Applicant :Department of Mechanical Engineering, Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Rang Reddy Dist., Hyderabad - 500073, Telangana, India. ----- 2)KOTTAREDDYGARI, Jaya Sanjay Address of Applicant :Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Rang Reddy Dist., Hyderabad - 500073, Telangana, India. ----- 3)PANDHOGHANTAM, Venkata Ramana Address of Applicant :Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Rang Reddy Dist., Hyderabad - 500073, Telangana, India. ----- 4)N. Sai Sai Address of Applicant :Department of Metallurgical and Materials Engineering, Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Rang Reddy Dist., Hyderabad - 500073, Telangana, India. ----- 5)N. Sai Teja Address of Applicant :Department of Metallurgical and Materials Engineering, Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Rang Reddy Dist., Hyderabad - 500073, Telangana, India. ----- 6)S. Varun Chandra Address of Applicant :Department of Metallurgical and Materials Engineering, Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Rang Reddy Dist., Hyderabad - 500073, Telangana, India. ----- 7)P. Venkata Address of Applicant :Department of Metallurgical and Materials Engineering, Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Rang Reddy Dist., Hyderabad - 500073, Telangana, India. ----- 8)B. Swathi Address of Applicant :Department of Metallurgical and Materials Engineering, Mahatma Gandhi Institute of Technology, Kokapet (Village), Gandipet (Mandal), Chaitanya Bharathi (PO), Rang Reddy Dist., Hyderabad - 500073, Telangana, India. -----
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(57) Abstract :

The present invention discloses a shoe insole (10) to heal Diabetic Foot Ulcers (DFUs) and method of manufacture thereof. The shoe insole (10) to heal Diabetic Foot Ulcers (DFU) comprising a first layer (1) of poly dimethyl siloxane, a second layer (2) of bamboo, and a third layer (3) of coconut oil. The first layer (1) comprises a selective laser machined areas that face with the ulcer area (U) and provide a passage channel (C) for supply of oxygen. The said second layer (2) is employed for increased supply oxygen to the ulcer area (U) through the passage channel (C) and the third layer (3) is used for providing structural support, stability, and firmness to the sole. The design of the shoe insole (10) is sustainable in nature and self-generating device that does not require any external power such as battery. Fig. 2

No. of Pages : 33 No. of Claims : 10

The Patent Office Journal No. 23/2022 Dated 10/06/2022

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5. India Innovation Challenge Design Contest (IICDC) - 2019. Several teams from MGIT have advanced, each with unique projects and faculty coordinators. Notable projects include soil parameter analysis using UAVs, a multi-function manipulator, a chiropractic device, and a robotic cuisenaire.

TEAMS AND THEIR ACHIEVEMENTS IN IIC

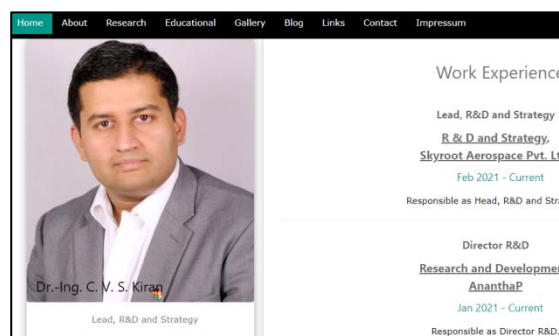
Team No.	Team Name	Project Title	Faculty Coordinator	Amount	Roll. Nos	Team Members
994213	Rising Falcon	Analysis of soil parameters using UAV	Dr. V.V.N. Satya Suresh	\$200 equivalent parts required for the project received	17261A1422	G Raj Kumar
					17261A1448	K Sai Tharun
					17261A1428	K V Jeevesh Reddy
					17261A1446	Robin Koshy Mathews
					17261A0302 – Mech	M Akhila Sri
					18261A0302 – Mech	A Divya Sri
1262843	Adriods	Multi Function Manipulator	Mrs. K.C. Sabitha	\$200 equivalent parts required for the project received	16261A1408	Bhagavatula Krishna Sai Praneeth
					17261A1421	G.V Saaketh
					18265A1405	K Madhu Mohan Chary
					17261A1456	Venkatesh Mekala
					17261A1451	Sonthena Veerabhadra Sai
					17261A1409	Banagiri Saketh Narayan
					17261A1436	Mohammed Ahteshamuddin
1263943	Aryogya Yantra	Chiropractic Device_Aryogya Yantra	Dr. Venkata Ramana	\$200 equivalent parts required for the project received	17261A1442	Pranahith Babu Yarra
					17261A1447	Sai Suraj Karra
					17261A1432	Kattunga Bhargav Sai Ram
					17261A1444	Rashpal Singh Kalsi
					17261A1453	Yugandhar Talluri
					17261A1411	Bhardwaj Bhavanam
1354523	Code Amigos	Robotic Cuisenaire	Ms. Podila Meghana	\$200 equivalent parts required for the project received	16261A1429	Mayank Chadha
					16261A1436	Parth Mehta
					16261A0394 – MECH	Mohd Tawfiq
					16261A05G9	Ravula Varsha

Team No.	Team Name	Project Title	Faculty Coordinator	Amount	Roll. Nos	Team Members
					- CSE 16261A0256 - EEE 16261A04A7 - ECE	Virendra Kumar Dwivedi S Jaya Revanth

b) Student Entrepreneurs

MGIT nurtured students' minds with entrepreneurship skills through institution's EDC. Many students have established successful organizations in later stages.

S.No.	Name Of the Student	Organization
1	Dr.-Ing. CVS Kiran	Skyroot Aerospace
2	M Rashmi Reddy	Nano Edu Services
3	A Samskruthi	Renavart Recyclers
4	Simrah Munaza Ikram	FYI.is, EdVenture Park



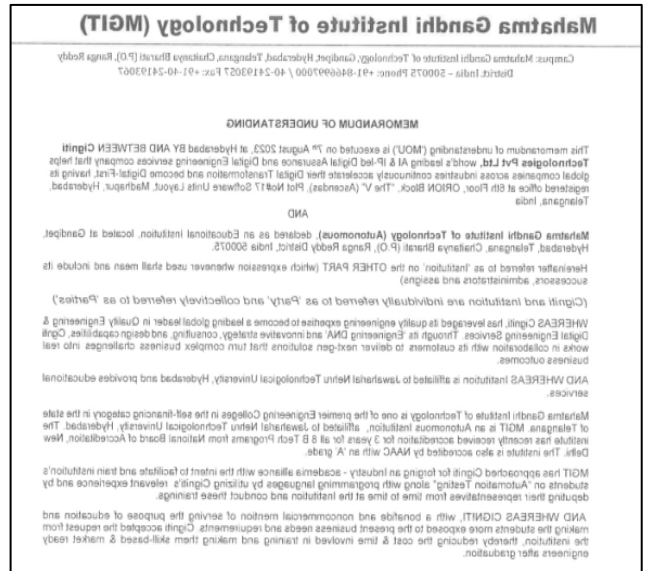
d) Memorandum of Understanding with Industry & Academia

MGIT actively seeks MoUs for industry-academia collaboration, fostering partnerships with TASK, Honeywell, ICT Academy, Cisco, CIGNITI, and Skyroot Aerospace. These collaborations offer students essential skills, certifications, and practical exposure through various programs. The outcomes encompass student internships, faculty research collaboration, and research proposal development in association with department faculty, providing significant benefits to both students and the institution.

S.No	Name of the Organization	Organization Address / Details	Outcome of MOU
1	METEY Engineering and Consultancy Pvt. Ltd, Hyderabad	Architectural Engineering, Planning and Management consultancy firm	To promote research and training programmes, Internships, finishing schools, value added courses and to promote employability
2	ADEMTEK Solutions Private Limited	Hyderabad	Training, Placement and Project internship

S.No	Name of the Organization	Organization Address / Details	Outcome of MOU
3	Virtusa Consulting Services Pvt. Ltd.	Hyderabad	Project Development
4	University of Silicon Andhra	California, USA	To promote continuous academic, research and professional development activities
5	M/s. Skyroot Aerospace (P) Limited, Hyderabad	Hyderabad	• Internships to the Students • Research Collaboration with the Faculty members • Raising Research Proposals in association with the Faculty Members of the Department
6	SkillDzire Technologies Pvt. Ltd.	Hyderabad	Internships
7	Virtusa Consulting Services Private Limited	Hyderabad	Industry Institute Interaction
8	M/s. Associated Engineering Services	Hyderabad	Internships/Expert Lectures to the Students, Training Programs/Certification Courses
9	Hyderabad Institute of Electrical Engineers (HIEE)	Hyderabad	Internships, Job oriented Course
10	Nife Lab	Singapore	Offering consultancy to faculty
11	OREMI Singapore	Hyderabad	Research and Development
12	Oremi	Singapore	Offering consultancy to faculty
13	Cisco Network Academy	Hyderabad	Training, Placement, Internship and Certification
14	Virtual Labs IIIT	Hyderabad	Industry Institute Interaction
15	TASK	Hyderabad	Training, Placement, Internship and Certification
16	ICT Academy	Hyderabad	Training, Placement, Internship and Certification



MoU between MGIT and Cigniti, Date: 07/08/2023



MoU Signed Between MGIT and Skyroot, Date: 23/03/2023

e) RESEARCH PROJECTS

S.N	Name of the Faculty with Designation	Branch	Title of the Research Project	Funding Scheme Agency	Sanctioned Budget (in Rupees)
1	Dr. K. Sudhakar Reddy, Professor Head	MCT	Design and Analysis of Optics and Optomechanics for a Three Wavelength Laser Beam Platform'-	DRDO Lab/Estt /Project: CHES, HYDERABA D	₹ 9.6 lakhs
2	Dr. G. Srinivas Reddy, Assistant Professor	P&C	Assessment of Naturally Occurring Radioactive Materials (NORM) and Radon Exhalation Studies in Soils of Siddipet District of Telangana	TSCOST	₹ 70000



S.N	Name of the Faculty with Designation	Branch	Title of the Research Project	Funding Scheme / Agency	Sanctioned Budget (in Rupees)
			State		
3	Dr. M. Vijayalakshmi, Assistant Professor	MME	Process sequence and Metallurgical Assessment of Electron Beam weld joints of 16NCD13 grade steel for Aero Engine Gear Applications	Aeronautical Research and Development Board	₹ 38,31,000
4	Dr. Archana Jain, Assistant Professor	P&C	Development of achiral and iso-selective Alkaline-Earth Metal catalysts to produce highly stereo-controlled biodegradable polymers	SREB-TARE	₹ 18,30,000
5	Dr. V. Venkat Ramayya, Associate Professor	Civil	Assessment of Warm Mix Asphalt (WMA) with partial replacement of recycled aggregate and inclusion of nano material	JNTUH-TEQIP-III	₹ 2,99,100
6	Dr. V.V.N. Satya Suresh, Professor	MCT	Influence of weld profile shape in the forming of Tailor welded blanks	TEQIP-III	₹ 2,99,000
7	Dr. K. Sudhakar Reddy, Professor & Head	MCT	“Recent Advances in Micro Electro Mechanical Systems (MEMS), Mechatronics and Their Applications for Future Challenges	AICTE	₹ 4,38,333
8	Dr. T. R. VijayaLakshmi Associate Professor	ECE	Improving Objectvisibility under atmospheric degradations of haze and fog by adopting deep neural network model	JNTUH-TEQIP-III	₹ 2,55,000
9	Dr. K. Ramanjaneyulu Associate Professor Dr. J. Jhansi Assistant Professor	MME	Assessment of the Mechanistic aspects of Titan 44 Base Metal and Weldments during Tensile Deformation	Aeronautical Research and Development Board	₹ 8,39,000
10	Dr. S. Santhi, Assistant Professor	MME	Process simulation studies of flow characteristics of light alloy castings	JNTUH-TEQIP-III	₹ 2,90,000

S.N	Name of the Faculty with Designation	Branch	Title of the Research Project	Funding Scheme Agency /	Sanctioned Budget (in Rupees)
11	Dr. Archana Jain, Assistant Professor	P&C	Direct amide synthesis from alcohols and amines via vinyl functionalized N-heterocyclic carbene-based ruthenium catalysts	JNTUH-TEQIP-III	₹ 2,50,000
12	Dr. Nabanita Pal, Assistant Professor	P&C	Nanostructured Materials: Morphology Controlled Synthesis, Properties and Their Advanced Applications in Drug Delivery	JNTUH-TEQIP-III	₹ 2,50,000
13	Dr. B. Srinivasa Reddy, Assistant Professor	P&C	Development of Green protocols for the synthesis of Benzimidazole and Pyrazole derivatives and evaluation of their biological activity	JNTUH-TEQIP-III	₹ 2,50,000
14	Mr. Jayaprakash Narayana Samudrala, Assistant Professor	Civil	Corrosion free ductile synthetic fiber reinforced concrete columns using glass fiber reinforced polymer bars and stirrups	SERB-TARE	₹ 18,30,000
15	Dr. K. Sudhakar Reddy, Professor & Head	MCT	Recent Advances In Design And Development of Mechatronics & Robotic Systems 4-16 Dec, 2017	AICTE	₹ 6,52,200
16	Dr. P.Venkata Ramana	MCT	Dissimilar Metal Friction Welding of Ti and Ni Alloys Using Interlayers for High Temperature Applications	UGC	₹ 2.6
17	Mr.B. Lokesh, Assistant Professor	IT	Artificial Intelligence- Based Image Processing	OREMI, SINGAPORE	₹ 1,61,547
18	Mr.B. Lokesh & Ms. N. Sree Divya, Assistant Professor	IT	Brain Computer Interaction	OREMI, SINGAPORE	₹ 5,00,000
19	Dr. D. Vijaya Lakshmi, Assistant Professor	IT	Modernization and Removal of Obsolescence Scheme(MODROB)	AICTE	₹ 14,00,000

f) PLACEMENTS AND INTERNSHIPS:

The testament of success of all the practices and achievements mentioned above reflected in the placements of MGIT. The institution stands unique among many college of Telangana and Andhra Pradesh with highest number of placements. Students also given opportunities during their pre-final year in the form internships and such students were offered pre-placement offers.

THE YEAR-WISE PLACEMENTS

Academic Year	No. of Placements	No of organisations	Highest CTC	Avg. CTC
AY2022-23	618 (Continuing)	78	13.08 LPA	5 LPA
AY2021-22	1068	112	70 LPA	4.3 LPA
AY2020-21	673	93	15 LPA	4 LPA
AY2019-20	577	112	15 LPA	3.8 LPA
AY2018-19	517	119	10 LPA	3.3 LPA

THE YEAR-WISE INTERNSHIPS

Academic Year	No of Internships carried out by Students	No of organisations	Paid
AY2022-23	391	89	54
AY2021-22	421	84	18
AY2020-21	340	74	-
AY2019-20	360	91	5
AY2018-19	477	122	-

g) Higher Education Review Magazine: In the footsteps of older departments, the newly established departments also have stood as center of attraction. The institution has been shortlisted by the Higher Education Review Magazine as one of the Top 10 Most Promising Colleges for Data Science in India for the year 2023. This recognition underscores the commitment to excellence in education and dedication to provide cutting-edge programs that equip the students for the dynamic field of Data Science. It is a testament to the hard work of faculty, staff, and students, and reaffirms the position of MGIT as a leading institution in the field of higher education.





i) MGIT's notable distinctions include:

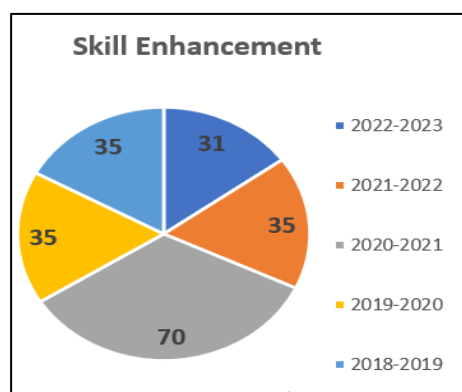
- Accreditation by the Institution of Engineers (India) – IEI
- Standing at 46 in the Education World Ranking, among the Top 100 institutions in India and top 50 in South India top 2 in Telangana.

These achievements underscore MGIT's commitment to excellence and its prominent position in the field of education.

Cumulative Professional Engagements: Skill Enhancement, MoUs, Internships, Research, and Consultancy

Skill Enhancement Programs

Academic Year	Count
2022-2023	31
2021-2022	35
2020-2021	70
2019-2020	35
2018-2019	35

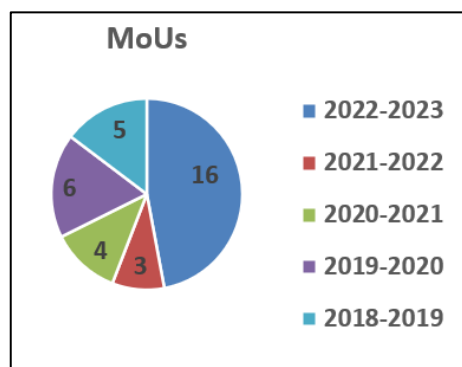


Academic Year	Count
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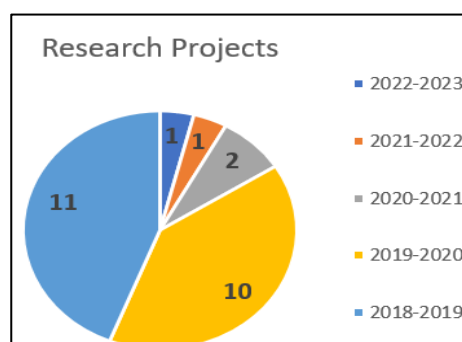
2022-2023	16
2021-2022	3
2020-2021	4
2019-2020	6
2018-2019	5

MoUs



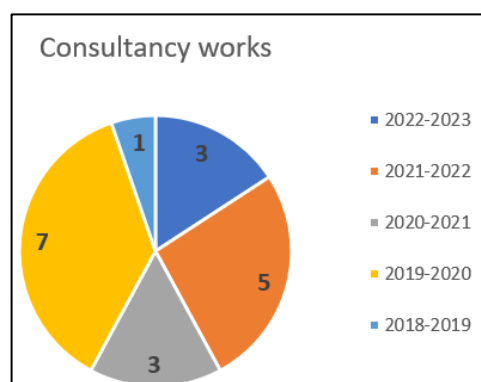
Research Projects

Academic Year	Count
2022-2023	1
2021-2022	1
2020-2021	2
2019-2020	10
2018-2019	11



Consultancy Works

Academic Year	Count
2022-2023	3
2021-2022	5
2020-2021	3
2019-2020	7
2018-2019	1



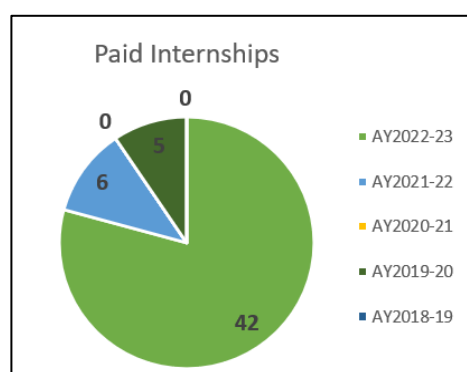
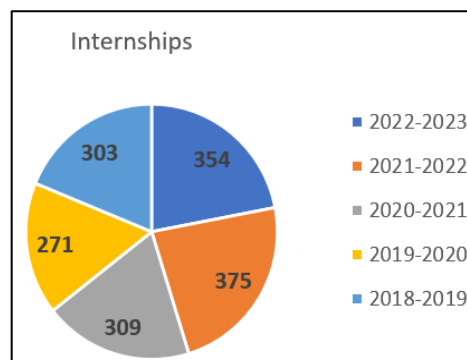
Placements and Internships

MGIT consistently breeds exceptional talent with an outstanding placement record. Their students secure top positions in renowned companies, a testament to MGIT's unwavering commitment to education and industry preparation. Through rigorous training, industry connections, alumni success, and continuous skill development, MGIT ensures its students are highly sought-after by recruiters. The students have consistently secured coveted positions in renowned companies such as

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Principal
MGIT
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Arcesium, Microsoft, Salesforce, Airbus, Just Pay, Wells Fargo, CTS, LTIMindtree, TCS, and many more, a testament to their calibre and determination.

Academic Year	Count
2022-2023	354
2021-2022	375
2020-2021	309
2019-2020	271
2018-2019	303



6. Problems Encountered and Resources Required:

6.1 Problems encountered:

The institute has encountered several challenges in its efforts to motivate students and align their career aspirations with industry demands and long-term goals:

Time Constraints: Balancing regular academic commitments with additional training or exam preparation can be challenging due to time constraints.

Limited Industry Exposure for New Technologies: Insufficient industry exposure and networking opportunities can hinder students' understanding of market demands and career prospects.

6.2 Resources Required

Fostering innovation through industry-institute collaborations requires a combination of resources to create a supportive ecosystem for students, faculty, and industry partners to work together on innovative projects. Some key resources that can contribute to successful innovation initiatives:

Financial Support:

- More funding for research projects and student-led initiatives.
- Additional Budget for collaborative events, seminars, and workshops.


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Infrastructure:

- Advanced labs and prototyping facilities.
- Collaborative spaces for idea exchange.

Human Capital:

- Industry mentors for practical insights.

Research Access:

- Subscriptions to research journals and databases.
- Online libraries for academic resources.

