CMR
GROUP OF INSTITUTIONS
EXPLORE TO INVENT

Dr. B. Satyanarayana
B.Tech., M.Tech., Ph.D., MISTE
Professor & Principal

CMR
INSTITUTE OF TECHNOLOGY
UGC AUTONOMOUS
Approved by AICTE, New Delhi & Permanently Affiliated to JNTUH, Hyderabad & Accredited by NBA, NAAC with 'A' Grade

Date : 20.12.2023

Authentication Certificate

This is to certify that the institution's research facilities are frequently updated and there are well defined policy for promotion of research.

Principal

Principal
CMR INSTITUTE OF TECHNOLOGY
Kandlakoya (V), Medchal Road,
Hyderabad-501 401.

Kandlakoya (V), Medchal Dist.,
Hyderabad - 501 401.
Ph: 8008557612
Telefax: 040-200240
Email: principal@cmritonline.ac.in
Website: www.cmritonline.ac.in

3.1.1 Promotion of Research

INDEX

Principal
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Kandlakoya (V), Medchal Road,
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Phone: Off: +91–40–23158665
Fax: +91–40–23158665
Web : www.jntuh.ac.in
E Mail: pa2registrar@jntuh.ac.in

ACCREDITED BY NAAC
A-GRADE

PROCEEDINGS OF THE
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

(Established by Govt. Act No. 30 of 2008)
Kukatpally, Hyderabad – 500 085, Telangana (India)
Present: Dr. M Manzoor Hussain
Registrar

Procds. No. JNTUH/DRD/Estt. of Research Centre/99/2022, Dt. 11-05-2022

Sub: Recognition of CMR Institute of Technology as Research Centre under JNTUH – Reg.

Ref: Note orders of Hon'ble Vice Chancellor, Dt. 11-05-2022.

*****

Vide reference cited based on recommendation of the Committee, the University accords recognition to CMR Institute of Technology as Research Centre in the following departments for a period of three years (i.e., 2022-2025).

1. Computer Science & Engineering

The Research Centres of the department recognized shall follow all the rules and regulations as prescribed in the **Guidelines for Establishment of Research Centre** of Jawaharlal Nehru Technological University Hyderabad. (Available in www.jntuh.ac.in)

REGISTRAR

To
The Principal,
CMR Institute of Technology,
Kandlakoya (V), Medchal Road,
Medchal-Malkajgiri Dist. – 501 404,
Telangana State.

Copy to: P.A. to Vice-Chancellor.
Copy to: P.A. to Rector.
Copy to: DRD file.
Copy to: Director, Admissions.

Principal
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Present: Dr. M Manzoor Hussain
Registrar

Procds. No. JNTUH/DRD/Estt. of Research Centre/99/2022, Dt. 03-06-2022

Sub: Recognition of CMR Institute of Technology as Research Centre under JNTUH – Reg.

Ref: Note orders of Hon'ble Vice Chancellor, Dt. 03-06-2022.

*****

Vide reference cited based on recommendation of the Committee, the University accords recognition to CMR Institute of Technology as Research Centre in the following departments for a period of three years (i.e., 2022-2025).

1. Electronics & Communication Engineering

The Research Centres of the department recognized shall follow all the rules and regulations as prescribed in the **Guidelines for Establishment of Research Centre** of Jawaharlal Nehru Technological University Hyderabad. (Available in www.jntuh.ac.in)

03/6/22
REGISTRAR

To
The Principal,
CMR Institute of Technology,
Kandlakoya (V), Medchal Road,
Medchal-Malkajgiri Dist. – 501 404,
Telangana State.

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Copy to: P.A. to Rector.
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Principal
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Hyderabad-501 401.

RESEARCH AND DEVELOPMENT CELL
Jawaharlal Nehru Technological University Hyderabad
Kukatpally, HYDERABAD - 500 085, Telangana State

Dr. K Vijaya Kumar Reddy
M.Tech., Ph.D
Professor of Mechanical Engineering &
DIRECTOR

Tel : 9154089525
directorrnd@jntuh.ac.in

Dt: 25-02-2023

To
The Principals

Sir,

Sub: JNTUH – R&D Cell – List of eligible Supervisor – Interaction meeting with Principals – Reg.

*****

By direction I am happy to inform that the list faculty enclosed herewith are identified as research Supervisors working in your college. Further it is to inform that not-eligible faculty may be allowed to know the short falls of their credentials at Directorate of Research & Development Cell in person during evening working hours from 04:00 PM to 05:00 PM within seven days after receipt of this letter.

In this connection the guidelines and norms for allotment of research scholars to identified research supervisors working in affiliated colleges are to be discussed. Hence you are requested to attend the interaction meeting with the Hon'ble Vice Chancellor on 01-03-2023 @ 10:30 AM without fail.

Venue: Golden Jubilee Conference Hall,
Admissions Building, JNTUH.

Yours sincerely

DIRECTOR

Copy to: PA to VC
Copy to: PA to Rector
Copy to: PA to Registrar

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Hyderabad-501 401.

College Name : R0 (CMR Inst. Of Tech...)			
S.No.	Name of the Faculty	JNTU Registration ID	**Branch Name**
1	Dr. B Satyanarayana	7186-150422-130450	C.S.E.
2	Dr. S, Dhana Lakshmi	8631-170126-075712	C.S.E.
3	Dr. Vinit Kumar Gunjan	2954-150416-103048	C.S.E.
4	Dr. Vijender Kumar Solanki	5924-170520-140225	C.S.E.
5	Dr. Kumbala Pradeep Reddy	24150403-091523	C.S.E.
6	DR.T.ANIL KUMAR	8630150409133950	E.C.E.
7	DR. PRASAD JANGA	150404142150	E.C.E.
8	DR. A. SUDHAKAR	1147180727144220	E.C.E.

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RESEARCH & DEVELOPMENT POLICY

CMR INSTITUTE OF TECHNOLOGY

(UGC - Autonomous)

Approved by AICTE, Permanently Affiliated to JNTUH, Accredited by NBA and NAAC with A Grade

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May 2021

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RESEARCH AND DEVELOPMENT POLICY

Introduction

The Research & Development cell integrates all the departments to facilitate the academic, sponsored-research, projects and consultancy services. The cell extends its full support to students/ staff/alumni/other-stakeholders through its facilities i.e., research labs/centers, COE innovation and incubation centers to present/publish papers in the conferences/journals of national/international repute which contributes towards academic transformation, professional and career advancement. The cell associates & sponsors various innovative research & development activities such as workshops, symposiums, seminars, conferences, research publications, projects, innovations, patents and IPR in diverse fields. The R&D activities also include skill cum technology up-gradation programmes, startups, entrepreneurship and participation in various national/international technical competitions. The cell extends its support to start-up of new ventures in association with innovation incubation entrepreneurship cell (IIEC).

The cell strive towards perfection and high-quality scientific research to take-up active research and contribute towards publications, patents, prototypes and filing of IPR and to build research culture, to tap global potential, support to strengthen the knowledge foundation and promote the creation of new R&D applications in multi-disciplinary areas by using social innovation and rural/indigenous technology in support of Make in India and Digital India slogan of PMO and country. As a part of UBA, IIIC activities the cell adopts social out-reach programmes in support of education, research & innovation to households/children/adults/adolescence in rural villages & hamlets. To achieve the high quality research ambience, the R&D cell enables the staff/students to pursue research and participate in consultancy works. R&D policy states that the rules & regulations pertinent to research are should be followed by every individual involved in R&D activities.

Vision: To facilitate innovative and multi-disciplinary research in collaboration with industry to meet global needs by involving the all stakeholders.

Mission: Develop an eco-system for R&D activities through effective contributions of the staff and students to actuate industry relevant innovative projects, prepare the research proposals, apply for funding agencies, publish papers, patents that leads to entrepreneurships and startups.

Objectives

1. create zeal in staff/students to take-up multidisciplinary innovative research and publish papers in conferences/journals of national/international repute.
2. strengthen the R&D centre and get recognition from SIRO/DST/University/DRDO.
3. ink MOUs with industries, collaborate with institutions of higher learning and R&D organizations.
4. foster scientific temper, assure R&D quality and ethical efficacy.
5. create centers of excellence in niche/thrust/emerging areas of research.
6. recommend for financial assistance for various R&D activities.
7. identify and inform researchers about the appropriate research opportunities announced by different academic, research, industry or government organizations.
8. encourage students to undertake innovative projects and publish the same in reputed journals.
9. provide scope for staff/students to work on latest technologies with industry.
10. take-up testing/consultancy services in co-ordination with alumni, industry and stakeholders.

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Composition of R&D Cell

S. No.	Category	Status
1	Head of the Institution	Chairman
2	One representative from GB	Invitee
3	All HODs and Deans	Member
4	One professor from each department	Member
5	One representative from industry nominated by GB	Member
6	R&D coordinator nominated by GB	Member Secretary
7	One student from each department nominated by respective HOD	Member
8	One entrepreneur alumni (Optional)	Member

Frequency of Meeting: The committee shall meet atleast four times a year or as and when required. The member secretary in consultation with the chairman prepares and circulates the agenda of the meeting well in advance. The member secretary maintains the minutes of the meeting and action taken report.

Quorum: Two-third members constitute the quorum. If there is no quorum for the meeting convened up to half an hour, then the meeting shall stand adjourned to the next convenient day.

Term: The tenure of the members shall be three years.

Functions

1. prepare the annual R&D action plan along with R&D incentive policy for various R&D activities/programmes.
2. obtain the budget approval for various activities from finance & planning committee and GB.
3. prepare a comprehensive list of funding agencies that allocate funds for R & D projects.
4. motivate staff and students to publish papers/articles/manuscripts in conferences/journals of national/ international repute and to file/publish patents.
5. encourage staff & students to prepare and submit R&D/AQIS/project proposals for funding by ISRO, DRDO, CSIR, DST, AICTE, UGC, MSME, HUBs etc., within the stipulated time.
6. formulate strategies for mutual benefit of stakeholders by fostering research collaborations in interdisciplinary areas of industry/govt./IITs/TBIs/professional chapters to address societal needs.
7. monitor R&D project progress of various departments through visits to identify bottlenecks and propose remedial actions.
8. maintain close liaison with industry and undertake sponsored projects.
9. organize national/international conferences/workshops/seminars/training programs in thrust areas to enhance the professional and research skills among the staff and students.
10. promote self employability skills through innovation, incubation and entrepreneurship cell (IIEC).
11. insist faculty members to publish their research work in WoS/Scopus indexed journals.
12. maintain & update data of research, consultancy and extension activities of staff/students
13. upload progress of R&D activities on the web portals of affiliating/accrediting/ranking agencies.
14. constitute a review committee to adjudicate the originality & quality of the publications/projects/ consultancies/patents of staff/students and to recommend for incentives/appreciation and suggestions for improvement.
15. consolidate the progress of R&D activities of all departments and submit report to the Director.

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16. allocation of funds/seed-capital to various departments and staff members to take up R&D activities to established researchers both individually and also in groups.
17. monitor the utilization of research funds appropriately as per sanctioned budget without any deviation.
18. monitor the progress of R&D activities and send report in Gantt chart format to the Director.
19. report on revenue generation by R&D projects/consultancies, open a separate bank account for each project and maintain all registers/records for audit by CA/IQAC/Director.
20. perform any other duties as assigned by the Director time to time.

Promotion of Research

The staff/students have free-access to R&D cell and choose the topic of their interest and also can provide free guidance to seek funds from various government organizations/industries. The institute encourages the faculty, provide incentives for peer reviewed publications, consultancy works, writing books and filing patents. The institute takes care of complete patent filing process as per national/international IPR guidelines & policies to commercialize a product/prototype/ design/service. The R&D cell provides necessary eco-system/conducive-environment with infrastructure/expert support to staff/students to take-up R&D, consultancy, innovation and intellectual capital. Staff is responsible to apply for various R&D agencies through individual/institutional login and pursue their R&D projects. However, the institute is always ready to provide seed-capital and ample support for all potential research projects which can generate revenue after commercialization of product/services.

Research at UG and PG Level

To enhance quality research outcome, mentorship/internship shall be facilitated to encourage UG/PG students to pursue research activities leading to tangible outcomes, such as publication, process, novel, prototype, design and functionality changes. Research component is already embedded in the curriculum at all levels/years of their academic/professional stay/association at the institute being a society member in various clubs/committees/cells/chapters/associations and also as a student member. The staff members of the institute shall provide suitable professional/ expert guidance in all spheres of student R&D activities.

The UG/PG students are encouraged to take up a module/content in the ongoing research projects funded by government agencies/industries with the support of investigators. Those students who are the part of funded projects should transfer know-how to other UG/PG students for further research.

Research Centers

The institute has a number of research centers to strengthen the R&D activities, TLP, learning outcomes and employability for UG/PG students/staff. Establish new curriculum/additional labs to strengthen the research-culture in staff/students in different domains to improve industry- institute-interaction.

Research Laboratories

The following research laboratories and Centers of Excellence are established in the college to train the students in advanced technologies to carry out the research work.

a) **Center of Excellence in Artificial Intelligence, Machine learning and Data Science:** Python and R are installed to implement various machine learning algorithms on various data sets.

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b) **IoT Center of excellence:** A research lab which helps the students in developing the projects in the area of IOT and implementation of big data analytics.

c) **Cloud Computing Lab:** conducts research on Cloud Computing concepts through AWS.

d) **Full Stack Web Development Lab:** conducts research and implement projects by the staff/students using AJAX and advanced scripting languages.

e) **Internet of Things Lab:** Conducts research on advanced IoT systems and to analyze the performance of the IoT devices remotely.

f) **E-Yantra**: Robotic lab is established to explore and develop assistive devices.

g) **VLSI Design:** The focus of this lab in the areas of VLSI design and CAD algorithms for energy efficient high performance, power analysis and optimization for CMOS circuits; low power embedded systems design; VLSI design for multimedia; high-speed network and wireless applications.

h) **Simulation Lab:** This Lab Provides a powerful schematic capture and simulation environment that engineers, students, and professors can use to simulate electronic circuits and prototype PCBs. This lab shows you how to capture, simulate, and lay out your first design in Multisim.

i) **HFSS Lab:** to promote research using software tools in design of Microwave ranges.

j) **Lab VIEW:** This Lab gives the opportunity to the students to validate their knowledge and skills Hand-on experience of work and wide exposure during study period and also create & assure new opportunities for our students in the job market.

k) **CAD Lab (STAAD pro):** Conduct research analysis and design of structures

Seed-Capital to Student/Staff

CMRIT provides seed capital/fund under the roof of R&D cell, it is a capstone activity that provides early stage funding to ideas or concepts which are yet to publish and organize a forum to discuss on latest development relevant to the field of research/design/process. The aim of seed capital/fund is to encourage inventions/innovations to publish-patents/commercialization/new-venture/addition to exiting enterprise.

Minor Research Projects

The institute encourages & support staff & students to take-up minor research projects as detailed below:

a. Student projects are partially supported on recommendation of respective guide/supervisor/ investigator based on potentiality of the project to an extent of Rs.10000/- under this category for duration of one semester/year on approval of R&D cell.

b. The disbursement of sanctioned amount and completion of the project is the sole responsibility of guide/supervisor/investigator and may utilize the facilities, infrastructure and human resources of the institution.

c. The amount should be paid by respective guide/supervisor/investigator directly to the vendor after proper negotiations and submit the bill to the accounts department through proper channel to R&D cell.

d. The guide/supervisor/investigator has to submit the periodical progress report of the approved research project to the R&D cell.

e. The amount should not be used either for remuneration or honorarium purpose.

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Major Research Projects

CMRIT supports all major projects as detailed below on approval from the Director.

a. The major projects are sanctioned to the staff based on the recommendations of the R&D cell
b. Regular progress reports are to be submitted through HOD to R&D cell for review/guidance.
c. All the equipment purchased, fabricated-prototypes shall be the property of the institute only.
d. UG/PG student projects may be carried out from major research projects.

Sponsored Research Projects

The staff-research-proposals are to be submitted to R&D cell for scrutiny and further submission to the funding agencies such as AICTE, UGC, DST, etc. The institute supports the execution of a R&D project in all manners. The funds must be credited into the college bank account from the sanctioned R&D organization and covers all the heads of budget proposal without any deficiency. No deviations of any nature are allowed and shortage of funds met through honorarium and remuneration. However, escalations of cost of executing a project beyond control shall be brought to the notice of the Director for further action and approval. Any staff member can collaborate in any major research project for publications/patents. UG/PG students must be involved in the sponsored research projects and can be remunerated if possible.

Collaborative Research Projects

(i) **Industry Sponsored Research Project:** A public/private sponsored projects can utilize experts of the institution concerned to conduct research. If any patent is registered, then there shall be a sharing of income generated from patent among the industry, researcher and institute. This will lead to following benefits:

   a. The researcher will get an exposure to the concerned area of research.
   b. The industry will get solutions to their problem.
   c. The researcher, institute and industry can get the end-benefits.
   d. The society is ultimate beneficiary with new R&D product or service.

(ii) **Multi/Inter disciplinary Research:** Interdisciplinary/multidisciplinary research is the need of the hour. No department, institution, researcher or scholar can alone address any problem. The end results of R&D can only be derived with proper interaction between and amongst various other discipline faculties. The institute motivates all the staff members to involve in multi/inter disciplinary R&D activities. The following actions are in vogue:

   a. Identify the multi/inter disciplinary R&D areas.
   b. Identify the experts from various disciplines to work together on projects.
   c. Study the infrastructure requirement of various disciplines.
   d. Explore possibilities to find other resources for such multi/inter disciplinary research.

(iii) **Inter-institutional Research:** The staff members are encouraged to prepare the proposals in collaboration with well-established research institutes such as Universities, NITs, IIITs, IITs, and other organizations having similar interest. The staff may act as Principal investigator/Co-investigator depends on their contribution towards the research.

Intellectual Property

In case of any innovation/invention, the institute will encourage the researcher to file a patent. The institute has collaboration with the third party agency, which will process the patent application. The institute shall bear all the expenditure in filing of patent application. If the patent is commercialized, then the revenue sharing would be as per IP Policy of the Institute.

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Policy for Research and Consultancy Projects

The institute follows a unique incentive scheme to reward the faculty for the R&D and consultancy project works carried out in the respective year. This scheme is introduced by the management to impart research culture and to motivate faculty to identify new innovations. The incentive scheme is as per the table below.

S. No.	Category	Name	Percentage of Sharing
1	Funded Research Projects from Govt. organizations, R&D Organizations, Industry, University etc.	Principal Investigator	2% of the received fund only upon submission of UC
		All Co-investigators	1% of the received fund shared only upon submission of UC
2	Consultancy/Testing Services	Individual/Team	60:40 (institution : individual/team)
3	Patent Commercialization	Author(s)	50:50 (institution : author(s))

Incentives for Publishing Papers

As a part of the continual quality improvement policy, the institute encourages publication of papers in various conferences and journals by the staff members and can claim incentives. Staff members presenting their research papers in regional/national/international-seminars/conferences/ workshops will be provided by OD leave and reimbursed by the registration fee & travel expenses as per the rules in force and may vary time to time. Faculty research publications in reputed national/ international journals/conferences will be reimbursed, awarded and rewarded as per the table given below.

The Reimbursement

Category	Description	Reimbursement (Rs.)
A	Transactions of IEEE/ASME/ASCE/ ACM/SCI, Journals with SJR/SNIP > 0.5 and of similar standard	25,000/-
B	WoS/ESCI/Scopus Indexed Journals with existence of more than 2 yrs, prior to the date of publication.	20,000/-
C	Journals approved by UGC and any Journal existing for than 5 years with ISSN	5,000/-
D	International/National Conference publication with ISBN Proceedings	5,000/-

Note:

1. The publication charges should be paid in the name of Journal/Publisher and receipt to be generated in the name of Author, who is applying for Reimbursement.
2. All the reimbursements will be the original Fee paid, with a limitation of amount as mentioned in the table.
3. Neither Reimbursement, nor Reward will be given to paper published in list of discontinued Journals of Scopus/Cloned Journals list of UGC.
4. Papers published in list of Journals banned by CMRGI (as annexure from time to time) are also not eligible for Reimbursement and Reward.
5. For papers publishing in journal through conference, the faculty can apply for reimbursement either in journal category (A/B/C) or in Conference category (D) and not in both.
6. The original registration fee will be reimbursed to the author publishing in Scopus Indexed & above journals through CMRGI Conferences. However, no reward is permissible.

Award

For papers published in category A and B Journals, wherein no registration fee/Reimbursement is claimed, the first existing author of CMRGI out of **n** number of authors is entitled for **Award**. The award categories are:

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Category	Description	Award (Rs.)
1	Papers published through direct to following Journal: • IEEE/ACM Transactions • Journals by Elsevier/Springer Publication, existing for last 3 Yrs • Journals by IET Publication, existing for last 3 Yrs • All Q1 and Q2 listed Journals	10,000/- 8,000/- + Min. 2,000/- Reward as per clause 3
2	• Any Paper published in Journal through Conference route • All Q3 and Q4 listed Journals	5,000/- 3,000/- + Min. 2,000/- Reward as per clause 3

Note: Award categorization will be at discretion of R&D Committee of CMRGI. No award is applicable for C category Journals.

Reward:

Category	Description	Reward
1	Out of **n** no. of authors, if 2 or more authors are from different institutes of CMRGI.	Average of Scopus h-index of CMRGI authors X Rs. 1000/-
2	Out of **n** no. of authors, if 2 or more authors are from same institute of CMRGI.	Average of Scopus h-index of CMRGI authors X Rs. 750/-
3	Out of **n** no. of authors, only one author is from institutes of CMRGI.	Average of Scopus h-index of CMRGI authors X Rs. 500/-

Note:

1. The above reward is applicable for the papers published in Scopus/ WoS/ESCI/SCI Indexed & above Journals, wherein the reward is given ONLY to first existing author of CMRGI (irrespective of author position in list of authors), from 'n' no. of authors.
2. In any case of reward category, if the average Scopus h-index is ≤2, the first existing author in the list of authors of CMRGI will be rewarded Rs 2000/- for the papers published in Scopus/WoS/ESCI/SCI Indexed & above Journals.
3. For C-Category Journals, reward of Rs. 10000/- will be given only to first existing author of CMRGI (irrespective of author position in list of authors) from 'n' number of authors.
4. The Maximum Reward for any case will not exceed Rs.15000/-
5. The Reward will be issued only after successful reflection of the article in Scopus database of respective institutes of CMRGI.
6. Publications wherein students are co-authors the faculty is entitled for only reward.

Patents and Book Chapters

1. The fee for patent filling will be borne by institute; provided "Institute" is, the applicant and Inventors (with institute address) belong to the institute.
2. For the Patents filed & published filed & published individually (wherein institute does not bear any filling charges) and applicant not being Institute, reward of Rs.5000 /- will be given to the first Inventor with institute address.
3. Authors of Books/Book Chapters indexed in Scopus or Published by International Publisher will be rewarded Rs. 1500/- for one or more Book Chapter and Rs. 5000/- for Complete book, provided the affiliation should be institute name. This reward is only for Authors, not Editors.
4. Permission to attend Conference will be given based on exigencies of work and only once in a Semester.
5. Once the paper is published, before applying for reimbursement, the faculty has to submit soft copy of publication in the Department/Central Library.
6. All Papers (to Journals or Conferences) are to be submitted after proper plagiarism check and language check through proper channel, HOD/Dean (R&D)/Principal or Director.

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7. Affiliation of College name should be properly mentioned and even the institute to be acknowledged wherever possible.
8. In a scenario where the author has more than one affiliation, the author should compulsorily mention affiliation of respective institute of CMRGI.

Code of Ethics for Research

1. **Academic Honesty:** The institute holds high respect for honesty in all scientific communications in reporting data, results, methods, procedures, and publication status. The institute does not entertain fabrication, falsification, misrepresentation of data. Deceit of colleagues/funding-agencies or public is considered misconduct on the part of the researcher.
2. **Integrity:** The institute gives high regard for keep-up promises & agreements and sincerity & consistency of ideas and implementation.
3. **Carefulness:** One must carefully & critically examine one's own work, associates/team work and keep a record of research activities such as data collection, research design, and correspondence with agencies of journals.
4. **Respect for Intellectual Property:** Honor patents, copyrights, citations, and other forms of intellectual property. One must not use unpublished data, methods, or results without permission. Authors should give proper acknowledgements/citations and avoid plagiarism.
5. **Confidentiality:** The author should protect confidential communications such as documents, works, blue-prints, papers, publications, observations, trade secrets and patent records.
6. **Social Responsibility:** Mitigate social harm through research and public education/advocacy
7. **Competence:** Improve professional competence and expertise throughout life in education & learning and promote research competence in all aspects of research.
8. **Legality:** A researcher must know and obey government policies, relevant laws and institutional rules and regulations with regards to IPR issues.
9. **Protection of Human Subjects:** Minimize harms & risks to human subjects, use special precautions with vulnerable situations and respect human dignity/privacy/autonomy. Equitable distribution of benefits and burdens of R&D.
10. **Rules for P1agiaraism:** All project/seminar reports, dissertations/thesis, research papers, case studies, and any such documents need to be checked with the standard plagiarism software tool. In case of project/seminar reports, dissertations/thesis, the concerned student needs to submit a plagiarism report generated by a licensed software tool.

Relationships with Community

a. R&D outputs such as data, information, graphs, reports and documents are disseminated to the stakeholders in all possible ways including social media without any loss of confidentiality.

b. Researchers of the institute exercise due diligence and involve judiciously into research activities which are not detrimental to the interests of society/community/environment/stakeholders.

c. Researchers will exercise their rights to academic and scientific research freedom and are accountable to the community.

Relationships with Sponsors

a. The methods, contents, results, reports, documents, designs, publications, etc of research shall be fully disclosed to the funded agencies on final settlement.

b. Researchers shall be honest with sponsors about their research contribution & involvement along with qualifications, research expertise and skills.

Principal
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c. Researchers should follow standard code of ethics in disclose of content of research and maintain confidentiality with sponsors.

d. Researchers shall utilize sponsor's funds only for the purpose for which it is meant for.

Relationships with Research Participants and Research Objects

a. Researchers should respect their team members with freedom, dignity, privacy and integrity.

b. Researchers shall treat non-human living beings with care, respect, awareness, vulnerability and defenselessness.

c. No researcher should be harmful to the environment and maintain ecological balance.

d. Researchers should follow standards and norms of global waste management system.

e. In case and if research demands the use of human personal data & observations, the researchers have to obtain a prior consent from the person and their family members.

Withdrawal of membership from R&D project

Researchers can withdraw from the approved research in writing through proper channel and on the consent of sponsoring agency. Researchers should use the approved funds for that project only as per sanctioned heads of budget. Researchers should return the received money/money's worth to the institute if they didn't attend any professional development activities which are contributory to the R&D project.

Publications Policy related to R&D

Publisher: The CMRIT publish on its own and/or third party agents/publishers.

Scope: This policy is applicable to the institute and its departments/units/cells.

Purpose of the Policy: Publication policies, procedures, and guidelines are framed to ensure a minimum standard and common visual identity in all official publications and promotional materials. The institute official information will be accurate, consistent, legally-compliant, timely and accessible through electronic or print media.

Each publication will have a designated content owner who is responsible for ensuring that the publication complies with this policy. Management and release of publications will be authorized by the designated content manager for specific publications and/or categories of publication. The R&D cell/publication committee shall be responsible for the overall administration of the publication policy. All publications issued/reproduced in any language/medium, including web/ print/CD-ROM/video/audio are required to be of a high-standard that represent fairness, accuracy of the institute's operations/services. The current standards are defined in the publication policies, processes and procedures as referred below.

Publishing: Institutional representation in public forum about its programmes of study, capabilities, activities/interests through website and all other sources in print/electronic-media.

Publication Types

Primary Publications: The primary focus of the policy is to bring out institute's official contractual information related to the academics, curricular, co-curricular, extra-curricular and mandatory disclosures as per norms are also published/reproduced in any medium for web-print by business partners, research partners and relevant stakeholders. Publications may also include printing of short guide, prospectus, booklets, accommodation/family guide, college/campus

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handbooks, information for international students, programme guides and brochures, posters, fliers to promote various programmes and services. All media communications i.e., television, cinema, newspaper, radio, magazine, fliers, web banners, posters, e-recordings and other media-vehicles are used for outbound advertising, email, phone, SMS, campaigns and other formats.

Secondary Publications: The policy aims at publication of teaching material, academic schedules and issues of mutual interest of all the stakeholders. This covers scholarly publications in journals, articles, magazines, compendium, supplements, periodicals, books and book chapters run by CMRIT. The publication policy allows all non-contractual publications without any defeat to academic freedom subject to IPR issues in vogue.

CMR Institute of Technology shall publish in the following items

1. Online Publications
    a. Websites
    b. Online News Letters
    c. e-Magazine
    d. e-Journals
    e. e-Brochures
        i. Placement Brochure
        ii. Institutional Brochure
        iii. e-Prospectus
2. Hard Copy Publications
    a. News Letter
    b. Magazine
    c. Journal
    d. Brochures
        i. Placement Brochure
        ii. Institutional Brochure
        iii. Prospectus
    e. Case Study Book
    f. Conference/Seminar Proceedings
    g. Research Thesis of Faculty
    h. Books Composed by Faculty Members in Original
    i. Monographs
    j. Study Materials

Roles and Responsibilities

Policy Owner: The convener is the execution authority of the publication policy in terms of data compliance/interpretation/maintenance/processes/procedures/promulgation/pronouncement/monitor/report on publication process in coordination with the members of publication committee.

Content Owners: The content owner is CMRIT, who shall manage the publication units through conveners having overall responsibility for accuracy, consistency, timeliness and approval of content for publication and the conveners are responsible for compliance with the policy of CMRIT and publication processes & procedures of IPR/IIPR issues.

Content Managers: Conveners should ensure execution of appropriate policies/standards and adhere to it. Maintain & update the list of publications, content owners, editors, authors and manage web content. Convener shall constitute a publication committee and make them responsible for all the print/media publications/documents/videos. The current specific-content owner must be responsible for their data/information/images/modules/digital-resources in line with IPR issues and institute/

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department/convener no way responsible for any unfair/restricted practices.

Editors: An editor shall have delegated responsibility for one or more publications which combine materials belonging to several content owners or authors.

Authors: Create and maintain content for specific publications in prescribed format/medium. Authors must submit material to content owners for approval before publication.

Content Sources: CMRIT has a number of authorized central repositories which serve as the primary locations of official information. These are described in the publication processes and procedures. The HOI is the authorized person to make amendments in the content of these repositories and define templates/formats to the publication committee.

Storage and security: The system administrator/IT manager is accountable for the hardware, network integrity and security of the institutional repositories. Web servers and other infrastructure managed by units other than ITS which are used to store publicly available web content or files for publication must adhere to the same policies and to comparable service levels for administration, security, backup and maintenance as applicable.

Branding: All primary publications should comply with CMRIT branding and design standards. Approved templates for print and e-publication are available in website. All secondary publications must also comply with CMRIT branding and design standards/codes.

Audience: All staff/stakeholders.

Relevant Legislation

All relevant acts relating to Indian publications and Intellectual Property Rights (IPR)

Copyright: All materials shall be published in original and should not have been published before in their current or substantially similar form, or be not under consideration for publication with any other journal, book or in any other form. Articles/publications shall warrant/indemnify publisher from any infringement of an existing copyright.

Permissions: Prior to article submission, all authors shall obtain and submit clear permission to use any content that has not been created by them.

Rights of publishers

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w.e.f: 01/01/2021

Reimbursement & Reward Policy

For every institute, research is one of the major criteria for quality assessment. To inculcate such research culture among the higher education institutes, Govt. of India has been initiating and promoting startups and innovation culture, funding the research projects, conducting hackathons and many more. At the same time, CMR Group of Institutions has always been in forefront in encouraging the faculty and students towards research by pronouncing decent "Reimbursement & Reward" Policies. It is always essential to upgrade/align with the standards set by government agencies like NBA, NAAC, NIRF, AARIA and such others. The weightage of marks given for Citations in NIRF and NAAC indicates the importance of quality publication. Hence, the revision in the "Reimbursement & Reward" Policy is considered keeping ***"Scopus h-index"*** as criterion for Rewarding the Publication.

1. The Reimbursement:

Category	Description	Reimbursement
A	Transactions of IEEE/ ASME/ASCE/ACM/SCI /Pharmacy Journals with SJR/ SNIP > 0.5 AND of similar standard	Rs. 25000/-
B	Web of Science (WoS) / ESCI / Scopus Indexed Journals with existence of more than 2 years, prior to the date of publication.	Rs. 20000/-
C	Journals approved by UGC & Any Journal existing for more than 5 years with ISSN	Rs. 5000/-
D	Int./Nat. Conference Publication with ISBN Proceedings	Rs. 5000/- One per semester

1.1 The Publication charges should be paid in the name of Journal/Publisher and receipt to be generated in the name of Author, who is applying for Reimbursement.
1.2 All the Reimbursements will be the original Fee paid, with a limitation of amount as mentioned in table.
1.3 No Reimbursement, nor Reward will be given to papers published in list of discontinued Journals of Scopus/cloned journals list of UGC.
1.4 Papers published in list of Journals banned by CMRGI (as annexured from time to time) are also not eligible for Reimbursement & Reward.
1.5 For papers publishing in journal through conference, the faculty can apply for reimbursement either in journal category (A/B/C) or in Conference category (D) and not in both.
1.6 The original registration fee will be reimbursed to the author publishing in Scopus Indexed & above journals through CMRGI Conferences. However, no reward is permissible.

2. Award:

For papers published in Category A & B Journals, wherein no Registration Fee / Reimbursement is claimed, the first existing author of CMRGI out of 'n' number of authors, is entitled for **'Award'**. The Award categories are:

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Category	Description	Award Amount
1	➢ Any Paper published in Journal through Conference route ➢ All Q3 & Q4 listed Journals	**Rs. 5000/-** [Rs. 3000 + Min. Rs. 2000 reward as per clause 3]
2	Papers published through direct submission to following Journal: ➢ All IEEE Transactions ➢ All ACM Transactions ➢ Journals by Elsevier Publication, existing for last 3 years ➢ Journals by Springer Publication, existing for last 3 years ➢ Journals by IET Publication, existing for last 3 years ➢ All Q1 & Q2 listed Journals.	**Rs. 10000/-** [Rs. 8000 + Min. Rs. 2000 Reward as per clause 3]

Note: Award categorization will be at discretion of R&D committee of CMRGI. No Award is applicable for C- category Journals.

3. Reward:

Category	Description	Reward
1	Out of 'n' no. of authors, if 2 or more authors are from different institutes of CMRGI	Average of 'Scopus h-index' of CMRGI authors × Rs. 1000/-
2	Out of 'n' no. of authors, if 2 or more authors are from same institute of CMRGI	Average of 'Scopus h-index' of CMRGI authors × Rs. 750/-
3	Out of 'n' no. of authors, only one author is from institutes of CMRGI	'Scopus h-index' of the lone author of CMRGI × Rs. 500/-

3.1 The above reward is applicable for the papers published in Scopus/WoS/ESCI/SCI Indexed & above Journals, wherein the reward is given ONLY to first existing author of CMRGI (irrespective of author position in list of authors), from 'n' no. of authors.

3.2 In any case of reward category, if the average Scopus h-index is ≤ 2, the first existing author in the list of authors of CMRGI will be rewarded Rs 2000/- for the papers published in Scopus/WoS/ESCI/SCI Indexed & above Journals.

3.3 For C- Category Journals, reward of Rs.1000/- will be given only to first existing author of CMRGI (irrespective of author position in list of authors) from 'n' number of authors.

3.4 The Maximum Reward for any case will not exceed Rs.15000/-

3.5 The Reward will be issued only after successful reflection of the article in Scopus database of respective institutes of CMRGI.

3.6 Publications wherein students are co-authors the faculty is entitled for only reward.

4. Patents & Book Chapters:

4.1 The fee for Patent filing will be borne by the institute; provided "Institute" is, the applicant and Inventors (with institute address) belong to the institute.

4.2 For the Patents filed & published individually (wherein institute does not bear any filing charges) and applicant not being Institute, reward of Rs.5000/- will be given to the first Inventor with institute address.

4.3 Authors of Books/ Book Chapters indexed in Scopus or Published by International Publisher will be rewarded Rs.1500/- for one or more Book Chapter and Rs.5000/- for Complete Book, provided the affiliation should be institute name. This reward is only for Authors, not Editors.

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5. Permission to attend Conference will be given based on exigencies of work and only once in a Semester.
6. Once the paper is published, before applying for reimbursement, the faculty has to submit soft copy of publication in the Department/Central Library.
7. All Papers (to Journals or Conferences) are to be submitted after proper plagiarism check and language check through proper channel, HOD/ Dean (R&D)/ Principal or Director.
8. Affiliation of College name should be properly mentioned and even the institute to be acknowledged wherever possible.
9. In a scenario where the author has more than one affiliation, the author should compulsorily mention affiliation of respective institute of CMRGI.

10. The R&D Committee of CMRGI is as follows:

S. No	Name	Designation	Position
1	Dr. Ashutosh Saxena	Dean R&D - CMRTC	Chairman
2	Dr. Suresh Merugu	Dean R&D - CMRCET	Convener
3	Dr. Anil Kumar T	Dean R&D - CMRIT	Member
4	Dr. Syamsundar C	Dean R&D - CMREC	Member
5	Dr. Mitta Raghavendra	Coordinator R&D - CMRCP	Member
6	Dr. M. Ahmed Ali Baig	Dean Academics - CMRTC	Member

11. This policy is applicable for the Papers / Patents / Books Published after 01/01/2021.

12. Any Reimbursement and/or Reward is subjected to discretion of undersigned.

Sri C. Gopal Reddy
Chairman
CMR Group of Institutions

31/12/2020

Secretary & Correspondent
CMR Group of Institutions
Kandlakoya (V), Medchal, Hyderabad-501 401

Copy to:
Principal: CMRCET/CMRIT/CMRCP/CMREC
Director: CMRTC/CMRIT

1. CMRCET → 02/01/2021
2. CMRCP — 2/1/2021
3. CMRIT —
4. CMREC — 02/01/20
5. CMRTC — 02-1-21

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08th May 2021

Amendment to the Publications Guidelines

Released as "Reimbursement & Reward Policy" dated: 01/01/2021

1. To encourage collaborative research and enhance quality of publications, it is hereby directed to the entire faculty to identify the persons who are working in your domain and after constructive discussions/work on research try for collaborative publications.
2. To improve the citations and h-index of the self and institution, add at least 4-5 references of Scopus/SCI/Web of Science publications of CMRGI faculty.
3. It is expected from all the faculty members of CMRGI that they should sincerely contribute by submitting the papers in the conference organized by Colleges of CMRGI.
4. All the Faculty Members other than PhD holders are directed to publish at least TWO Scopus, SCI/Web of Science Publication as First Author (in a Calendar Year).
5. Faculty with doctoral degree should publish at least THREE Scopus, SCI/Web of Science Publication as First Author (in a Calendar Year).
6. Compulsory One paper should come from our CMRGI Conferences as Conference paper from the above number specified.
7. Faculties are also encouraged to seek the opinion from Dean (R&D) for possibility of fil ing patents as well before submitting the paper for publications.
8. **Reimbursement and reward for journal papers will be applicable only to those authors who have contributed at least one paper in the CMRGI Conferences in a calendar year.**

(C. Gopal Reddy)
Secretary
CMR Group of Institutions

Copy To:

Principal: CMRCET/CMRIT/CMREC/CMRCP

Director: CMRTC

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FACULTY PUBLICATION REIMBURSEMENT(RE)/AWARD(AW)/ REWARD(RW) FORM

Employee ID	1345	Date	9-10-2021
Name of the Author	T. MAHENDER		
Designation	Asst. Prof.	Department	Mech.
Title of the Publication (Enclose Full text)	On the optimization of temperature and cooling rate to maximize strength and ductility of near α titanium alloy IMI 834		
Is the Paper Scopus indexed	Yes / No Yes	If Yes, please enclose the listed copy	
Name of the Journal	Materials Science & Engg. A	ISSN	0921-5093
Journal Category	A/B/C/D : A	Patent/Book/Book Chapters	-
Publication Details	Volume 827 PP No.	DD/MM/YYYY	9-9-2021
Publication Fee Paid	Yes/No	If, Yes Amount Paid (Enclose Original Receipt)	Rs. —

List of Authors and Affiliation

S. No.	Name of Author(s)	Designation	Affiliation	Main/ Co	Amount Rs. RE	AW	RW	Total	Signature
1	T. Mahender	Asst. Prof.	CMRIT	Main					
2									
3									
4									
Total									

Hard & Soft copy of publication submitted to the Central Library: Yes/No | Librarian Signature

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The following amount to be reimbursed as per norms

Reimbursement Rs.	Award Rs.	Reward Rs.	Total Amount Rs.
—	8000/-	2000/-	10,000/-

Date: 27-10-21 | Signature of the Dean:

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Approved / ~~Not Approved~~	Approved / ~~Not Approved~~
Signature with Date: 27/10/21	Signature with Date: 16/12/21

Accounts officer Remarks: The above said amount calculation is found correct as per norms

Amount Paid Rs.		Cheque No		Date	
Bank Details		Signature			

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Employ ID: 1541 Date: 10/8/2021

Journal Publication Incentive - Fee Reimbursement Form

Name of the Author:	K. Kishore Kumar
Department:	Computer Science and Engineering
Title of the Publication (Enclose Full text):	Capable and verification protocol for Restricty information storage in cloud computing
Whether this Paper Listed in Scopus list, If Yes (Please Enclose the listed copy of the same):	Yes, Enclosed a Copy
Name of Co- Authors & their Affiliation:	① K. Kishore Kumar, CSE Dept, CMRIT, Hyd. ② K. Rajendra prasad, CSE Department, SARE, Hyd, India.
Name of the Journal with ISSN:	Lecture notes in Electrical Engineering
Journal Category: A / B / C / D / E	Author Category: 1 / 2 / 3
Vol. / Issue / PP. No. / Date/Month & Year of Publication:	In book chapter 601|2| 1058-1065 | 19th may 2020 pp.no: (1080-1087)
Publication Fee Paid (Enclose the Original Receipt):	68001- Enclosed
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HOD Remarks:	Signature of HOD
Hard & Soft copy of publication is received at Central Library : YES / NO	Signature of Librarian

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Publication Fee to be Reimbursed:	
Reward:	
Total amount to be released:	
Dean (R&D) Remark:	Signature of the Dean (R&D) 06/10/21
Approved / Not Approved	Principal/ Director 6/10/21

Name of Awardees	Amount	Received- Signature of Authors

Reflected in CMRIT Scopus Data here

Reimbmt:- Rs. 7650/-

7650/- 27/10

Rs. 7650/- To. Kishore Kumar

l. Shobha 16/12/21

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Employee ID	1645			Date	06.01.2023
Name of the Author	Dr. S. Alagumuthukrishnan				
Designation	Associate Professor			Department	CSE
Title of the Publication (Enclose Full text)	Optimized Navigation of mobile Robots Based on Faster R-CNN in Wireless Sensor Networks				
Is the Paper Scopus indexed	Yes / No			If Yes, please enclose the listed copy	
Name of the Journal	International Journal of Sensors Wireless Communications and Control			ISSN	2210-3287
Journal Category	A / B / C / D		Patent/Book/Book Chapters		
Publication Details	Volume	12 (6) P P No.	440-448	DD/MM/YYYY	11.08.2022
Publication Fee Paid	Yes/No	If, Yes Amount Paid (Enclose Original Receipt)			Rs.

List of Authors and Affiliation

S. No.	Name of Author(s)	Designation	Affiliation	Main/ Co	Amount Rs. RE	AW	RW	Total	Signature
1	Alagumuthukrishnan	Associate Prof.	CMR Institute of Technology	Main					
2									
3									
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Total									

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Date 06.01.2023 — Signature of the Author

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5000	3000 + 2000 = 5000/-	–	5000/- 10/3

Date 9/3/2023 — Signature of the Dean

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Signature with Date 10/3/23	Signature with Date

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FACULTY PUBLICATION REIMBURSEMENT(RE)/AWARD(AW)/ REWARD(RW) FORM

Employee ID	1588	Date	24-04-2023
Name of the Author	Vijender Kumar Solanki		
Designation	Associate Professor	Department	CSE - DS
Title of the Publication (Enclose Full text)	An Efficient Probabilistic Methodology to Evaluate Web Sources as Data Source for Warehousing		
Is the Paper Scopus indexed	Scopus/SCIE	If Yes, please enclose the listed copy	
Name of the Journal	International Journal of Interactive Multimedia and Artificial Intelligence	ISSN	1989-1660
Journal Category	A / B / C / D	Patent/Book/Book Chapters	
Publication Details	Volume 08-01 P P No. 95-104	DD/MM/YYYY	2023
Publication Fee Paid	No	If, Yes Amount Paid (Enclose Original Receipt)	

List of Authors and Affiliation

S. No.	Name of Author(s)	Designation	Affiliation	Main/ Co	Amount Rs. RE	AW	RW	Total	Signature
1	Vijender Kumar Solanki	Assoc. Prof.	CMR Institute of Technology						
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4									
	Total								

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Date	24-04-2023	Signature of the Author	

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Date		Signature of the HOD	G. Balakrishna

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Reimbursement Rs.	Award Rs.	Reward Rs.	Total Amount Rs.
	3000	3000	6000

Date	24-4-23	Signature of the Dean	

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Signature with Date	Signature with Date

Accounts officer Remarks: The above said amount calculation is found correct as per norms

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FACULTY PUBLICATION REIMBURSEMENT(RE)/AWARD(AW)/REWARD(RW) FORM

Employee ID	1642	Date	25-04-2023
Name of the Author	Dr.B.Satyanarayana		
Designation	Principal & Professor of CSE	Department	CSE
Title of the Publication (Enclose Full text)	1.CLOUD COMPUTING 2.DATA STRUCTURES USING C // Two Books with ISBN		
Is the Paper Scopus indexed	Yes/ No	If Yes, please enclose the listed copy	
Name of the Journal/Publisher	1. Professional Books Publisher 2. Vrinda Publishing House	ISSN/ISBN	1.978-93-91679-92-7 2.978-93-91365-34-9
Journal Category	A/B /C /D	Patent/Book/Book Chapters	Book
Publication Details	Volume:	PP No.:	DD/MM/YYYY:
Publication Fee Paid	Yes/No	If, Yes Amount Paid (Enclose Original Receipt)	Rs.

List of Authors and Affiliation

S. No.	Name of Author(s)	Designation	Affiliation	Main/ Co	Amount Rs. RE	AW	RW	Total	Signature
1	Dr. B. Satyanarayana	Principal	CMRIT						B Satya
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3									
4									
	Total								

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Date: | Signature of the Author: B Satya

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Reimbursement Rs.	Award Rs.	Reward Rs.	Total Amount Rs.
5000x2	10,000	—	10,000/-

Date: 25-04-23 | Signature of the Dean:

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B Satya

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Phone:08418–200720/9247605109Fax:08418–200240,www.cmritonline.ac.in

SANCTION ORDER OF SEED MONEY

1	File No.	CMRIT/R&D/CSE/F20-21/01
2	Name of the Principal Investigator	Dr.G.NagaRamaDevi
3	Name of the Co-Principal Investigator	Dr.S.Alagumuthukrishnan
4	Name of the Department	Computer Science and Engineering
5	Title of project	Density Based Smart Traffic Control System using Canny Edge Detection Algorithm for Congregating Traffic Information using AI
6	Application Dated	10-08-2020
7	Evaluation Committee Recommendations dated	03-09-2020
8	Sanctioned Amount for the Project	Rs.96000

Terms and Conditions

1. The above said amount will be provided to implement the said research proposal during the year 2020-2021 and the amount should be used only for procurement/purchase of components and other items and shall not be used towards travelling expenses and other unproductive expenses.
2. The R&D Cell will have the right to review the research work at any time according to its convenience.
3. Poor performance/progress may cause for termination of the research proposal and recovery of funds at any time in case if released.
4. Though seed money is released to the principal investigator, all the staff involved in research proposal is responsible for accounting of seed money.
5. In case research project is fruitful and sponsored by any government/private agency, the investigator has to execute an MOU with the CMRIT regarding terms and conditions of reference to execute the project and revenue sharing.

Name of the Sanctioning Authority	Dr. B. Satyanarayana
Designation	Principal.
Signature	
Date	31-08-2020.

Copy to

1. Secretary & Correspondent for information
2. HODs
3. IQAC
4. R&D Cell
5. Accounts officer
6. Investigator(s)/Project officer

Principal
CMR INSTITUTE OF TECHNOLOGY
Kandlakoya (V), Medchal Road,
Hyderabad-501 401.

Travel Request Application

From,
Dr. Vijender Kumar Solanki,
Assoc. Professor,
CSE Department,
CMR Institute of Technology,
Hyderabad.

To
The Principal,
CMR Institute of Technology,
Hyderabad.

Dear Sir,

I am Pleased to inform that I am Invited as a keynote speaker for **"The 3rd International Conference on Intelligent Systems & Networks (ICISN 2023)"** in **Swinburne University of Technology, Hanoi, Vietnam** on **18, 19 March 2023**. I request you to provide on duty, travel grant for sanction and approval.

Thanking you sir,

Invitation letter Attached.

Yours faithfully,
Dr. Vijender Solanki

Principal/Director
CMR INSTITUTE OF TECHNOLOGY
Kandlakoya (V), Medchal,
Hyderabad-501401

Principal
CMR INSTITUTE OF TECHNOLOGY
Kandlakoya (V), Medchal Road,
Hyderabad-501 401.

INVITATION LETTER

Full name: **Vijender Kumar Solanki**

Affiliation: CMR Institute of Technology, India

On behalf of the local organization committee, we invite you to ***The 3rd International Conference on Intelligent Systems & Networks (ICISN 2023)*** as a Steering Committee. The conference is organized and hosted by Swinburne University of Technology, Hanoi, Vietnam from 18, 19 March 2023.

Please consider this letter to be an official invitation to facilitate the visa process and/or documents needed to be able to attend the conference. For further information of conference, please visit the website https://icisn.com/.

The Finance committee has approved the support for your travel & accommodation for two days. In case you feel you need additional support, please feel free to contact us, we will be happy to assist you as best as possible.

This letter is only delivered to the Keynote Speaker, the invited delegates and organizing members of the conference.

Any misuse of this document will be subjected to legal action.

We look forward to welcoming you in Hanoi.

On behalf of the Organizing Committee

Nguyen Thi Dieu Linh, PhD. Organizing Chair

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Hyderabad-501 401.

Research Facilities

The Following are the research facilities provided in the institution for promotion of research.

Sl.No	Facility	Units available
1	Computers systems connected in LAN (Dell Vostro i3 10th gen)	21
2	Computers systems connected in LAN (10th Gen Intel® Core™.i5-10400 RAM :16 GB)	37
3	Robotic Arm	1
4	CNC Miller	1
5	CNC Turner	1

List of Software's			
1	Drill Bit	9	JDK
2	Python	10	Netbeans
3	R Studio	11	Openoffice
4	STAAD Pro	12	Android-Studio
5	ANACONDA JUPYTER	13	Arduino IDE 2.2.1
6	WEKA TOOL	14	Giraffe v6.2.0
7	Sci. Lab	15	MS-Office
8	LaTeX	16	MATLAB - MathWorks

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RESEARCH LAB

Length: 9.14 Breadth: 7.7 MAKE: Dell Vostro 3681 RAM: 16GB
PROCESSOR: 10th Generation Intel® Core™.i3-10400
NO OF SYSTEMS:21
STUDENT TO COMPUTER RATIO:1:1 EXPENDITURE: **9,09,514.00**

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Societal Innovation Lab

Length: 9.14 Breadth: 3.81
Make: DELL
Processor: 10th Gen Intel® Core™ i5-10400 RAM :16 GB
S/W: JDK 1.8.0_45, Netbeans 8.2, Openoffice, PYTHON 3.1.7
NO OF SYSTEMS:37
STUDENT TO COMPUTER RATIO:1:1 EXPENDITURE:1,804,162.4

List of Software/Hardware:

1. Android-Studio-2023.1.1.26
2. Arduino IDE 2.2.1
3. Giraffe v6.2.0

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PROFORMA INVOICE

Pinnacle Nanotech India Pvt. Ltd. #11-8-237/4/204, C S Nilayam, Kranthi Nagar Colony, Saroornagar, Hyderabad-500035 info@pinnaclenanotech.com	Pro Invoice No.: HYD 18010	Dt:17/09/2018
	Buyers Order No & Date:	CMRIT/PO/05/2018 04.09.2018
Buyer: **C M R Institute of Technology,** Kandlakoya, Medchal Road, Hyderabad - 501 401	Terms of Delivery:	

Sr. No.	Description of Goods	Qty	Rate	Per	Amount
1	DrillBit Extreme Anti Plagiarism Software Unlimited pages and 500 number of uploads (1 Year Lic)	1	44,500	No.	44,500.00
	CGST@9 %				4,005.00
	SGST@9 %				4,005.00
	Total				**52,510.00**

Amount Chargeable (In Words): Fifty Two Thousand Five Hundred and Ten Rupees Only

Company's CIN: U72200TG2009PTC065627
Company's GSTIN: 36AAFCP4375H1Z7
Company's PAN: AAFCP4375H
Company's TAN: HYDP06686B
Company's IEC: 0916504328

Declaration: We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

E & O.E

Bank Details for RTGS/NEFT:
PINNACLE NANOTECH INDIA PVT LTD,
A/c No: 31224292839, IFSC Code: SBIN0011666, State Bank of India, RAMAKRISHNAPURAM Branch, Hyderabad.

For PINNACLE NANOTECH INDIA PVT LTD.

(Authorized Signatory)

Principal
CMR INSTITUTE OF TECHNOLOGY
Kandlakoya (V), Medchal Road,
Hyderabad-501 401.

UTILIZATION

RESEARCH LAB.

Date: 07/09/2022

Sl No.	Name of the faculty	Purpose	In (Time) Sign.	Out Time	Signature
01	Virender Solanki	Paper work	11:10 AM	12:45	
02	S. Alagumuthukrishnan	Research work	11:20 am	12:30 pm	
03	M. Ravi	Refer Journals	11:25 am	1:05	
04	Shaik Rujar	Paper work	11:50 am	1pm	
05	A. Nageswara Rao	Pre-Talk work	11:35	12:30	
06	G. Balakrishna	Work	11:45 am	1:30	
07	Dr. M. P. Kumar	Pub. Papers	12:05	1:45	
08	B. Ravi Kumar	paper publication	12:05	1:45	
09	A. Nirmalkumar	Patent work	2:00 pm	4:00 pm	
10	H. Venkata Subbaiah	paper publication	2:05 pm	3:30	
11	Y. Sucharitha	Thesis work	2:10 pm	3:30 pm	

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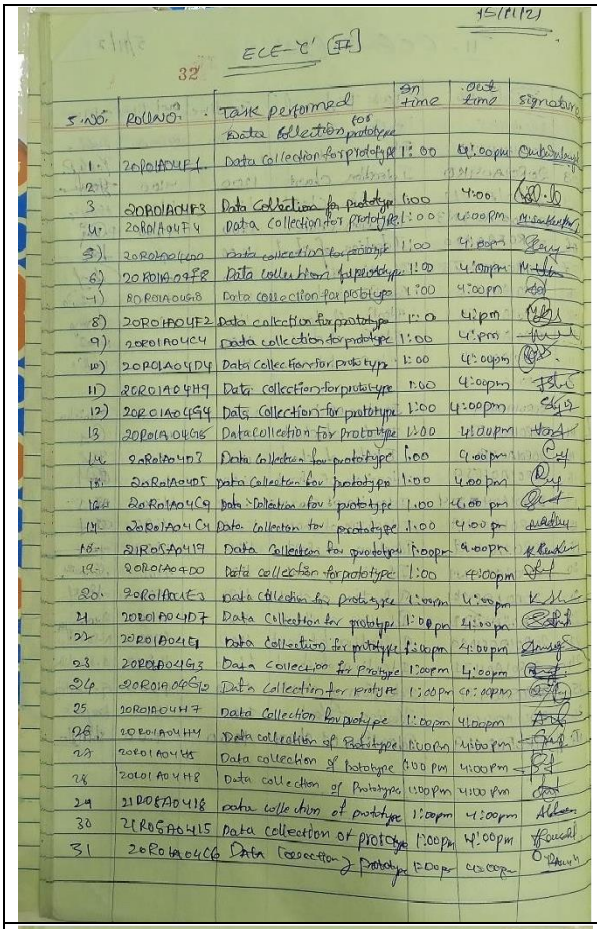
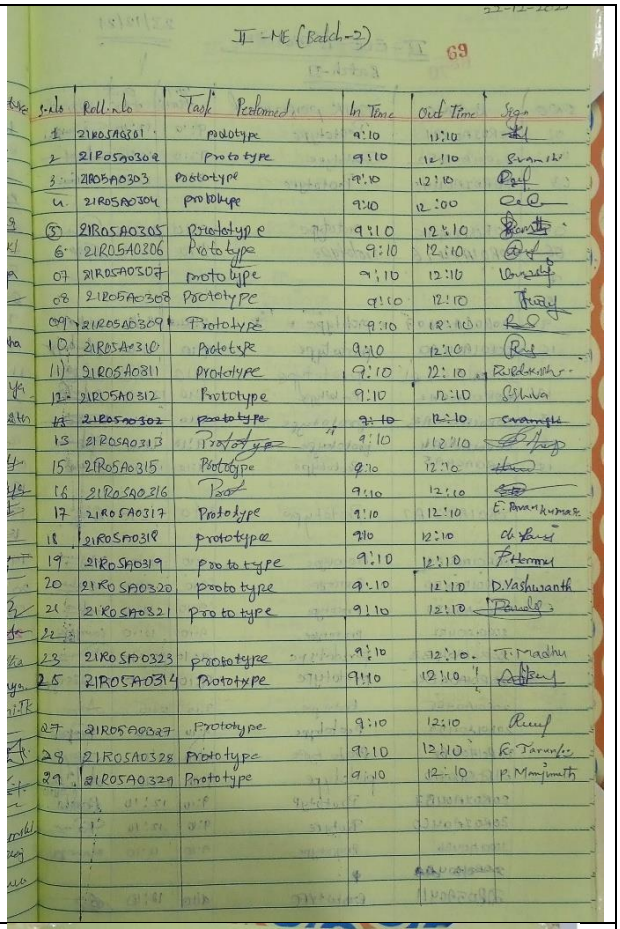


ECE-C' [IV]

32

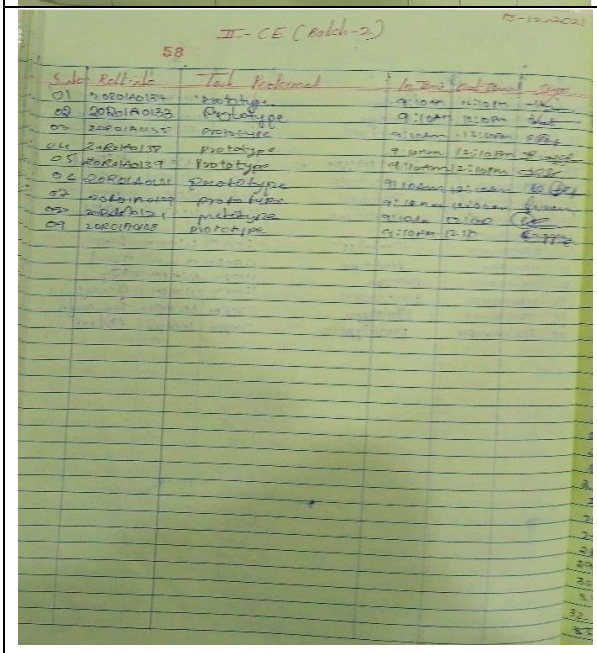
S.No.	Roll No.	Task performed	In time	Out time	signature
		Data Collection for prototype			
1.	20R01A04F4	Data Collection for prototype	1:00	4:00pm	
2.					
3	20R01A04F3	Data Collection for prototype	1:00	4:00	
4.	20R01A04F4	Data Collection for prototype	1:00	4:00pm	
5).	20R01A04G0	Data collection for prototype	1:00	4:00pm	
6)	20R01A04F8	Data Collection for prototype	1:00	4:00pm	
7)	20R01A04G8	Data collection for prototype	1:00	4:00pm	
8)	20R01A04E2	Data collection for prototype	1:00	4:00pm	
9)	20R01A04C4	Data collection for prototype	1:00	4:00pm	
10)	20R01A04D4	Data Collection for prototype	1:00	4:00pm	
11)	20R01A04H9	Data collection for prototype	1:00	4:00pm	
12)	20R01A04G4	Data Collection for prototype	1:00	4:00pm	
13	20R01A04G6	Data Collection for Prototype	1:00	4:00pm	
14	20R01A04D7	Data Collection for prototype	1:00	4:00pm	
15.	20R01A04D5	Data Collection for prototype	1:00	4:00 pm	
16.	20R01A04C9	Data Collection for prototype	1:00	4:00 pm	
17.	20R01A04C4	Data Collection for prototype	1:00	4:00 pm	
18.	21R05A0419	Data Collection for prototype	1:00pm	4:00pm	
19.	20R01A04D0	Data collection for prototype	1:00	4:00pm	
20.	20R01A04E3	Data Collection for Prototype	1:00pm	4:00pm	
21	20R01A04D7	Data Collection for prototype	1:00pm	4:00pm	
22	20R01A04E5	Data Collection for prototype	1:00pm	4:00pm	
23	20R01A04G3	Data Collection for Prototype	1:00pm	4:00pm	
24	20R01A04G0	Data Collection for prototype	1:00pm	4:00pm	
25	20R01A04H7	Data Collection for prototype	1:00pm	4:00pm	
26.	20R01A04H4	Data collection of Prototype	1:00pm	4:00pm	
27	20R01A04H5	Data collection of prototype	1:00 pm	4:00 pm	
28	20R01A04H8	Data collection of Prototype	1:00 pm	4:00 pm	
29	21R05A0418	Data collection of prototype	1:00pm	4:00pm	
30	21R05A0415	Data collection of prototype	1:00pm	4:00pm	
31	20R01A04C6	Data Collection of Prototype	1:00pm	4:00pm	



II-ME (Batch-2)

69

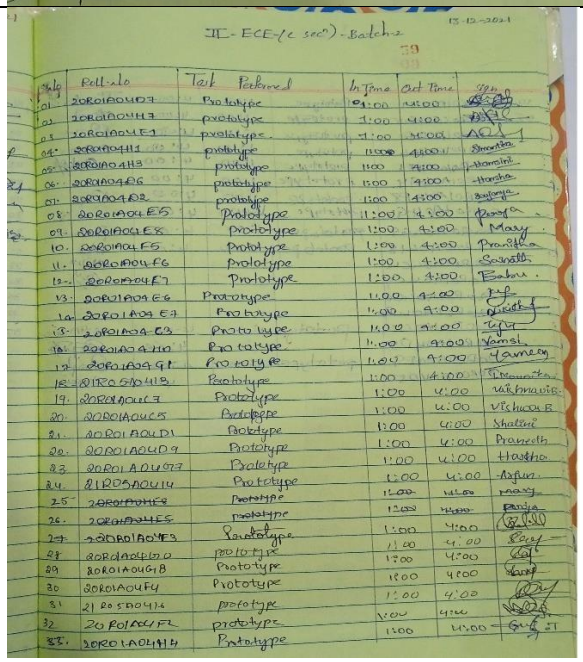
S.No	Roll.No	Task Performed	In Time	Out Time	Sign
1	21R05A0301	prototype	9:10	12:10	
2	21R05A0302	Prototype	9:10	12:10	
3	21R05A0303	Prototype	9:10	12:10	
4	21R05A0304	Prototype	9:10	12:00	
5	21R05A0305	Prototype	9:10	12:10	
6	21R05A0306	Prototype	9:10	12:10	
07	21R05A0307	Prototype	9:10	12:10	
08	21R05A0308	Prototype	9:10	12:10	
09	21R05A0309	Prototype	9:10	12:10	
10	21R05A0310	Prototype	9:10	12:10	
11	21R05A0311	Prototype	9:10	12:10	
12	21R05A0312	Prototype	9:10	12:10	
13	21R05A0313	Prototype	9:10	12:10	
14	21R05A0314	Prototype	9:10	12:10	
15	21R05A0315	Prototype	9:10	12:10	
16	21R05A0316	Prototype	9:10	12:10	
17	21R05A0317	Prototype	9:10	12:10	
18	21R05A0318	Prototype	9:10	12:10	
19	21R05A0319	Prototype	9:10	12:10	
20	21R05A0320	Prototype	9:10	12:10	
21	21R05A0321	Prototype	9:10	12:10	
22					
23	21R05A0323	Prototype	9:10	12:10	
25	21R05A0324	Prototype	9:10	12:10	
27	21R05A0327	Prototype	9:10	12:10	
28	21R05A0328	Prototype	9:10	12:10	
29	21R05A0329	Prototype	9:10	12:10	



II-CE (Batch-2)

58

S.No	Roll.No	Task Performed	In Time	Out Time	Sign
01	20R01A0124	Prototype			
02	20R01A0133	Prototype			
03	20R01A0115	Prototype			
04	20R01A0138	Prototype			
05	20R01A0139	Prototype			
06	20R01A0121	Prototype			
07	20R01A0110	Prototype			
08	20R01A0113	Prototype			
09	20R01A0125	Prototype			



II-ECE-(C sec) - Batch-2

59

S.No	Roll.No	Task Performed	In Time	Out Time	Sign
01	20R01A04D7	Prototype	9:00	4:00	
02	20R01A04H3	prototype	1:00	4:00	
03	20R01A04E1	prototype	1:00	4:00	
04	20R01A04H1	prototype	1:00	4:00	
05	20R01A04H3	prototype	1:00	4:00	
06	20R01A04E6	prototype	1:00	4:00	
07	20R01A04D2	prototype	1:00	4:00	
08	20R01A04E5	Prototype	1:00	4:00	
09	20R01A04E8	Prototype	1:00	4:00	
10	20R01A04F6	Prototype	1:00	4:00	
11	20R01A04F6	Prototype	1:00	4:00	
12	20R01A04F7	Prototype	1:00	4:00	
13	20R01A04E6	Prototype	1:00	4:00	
14	20R01A04E7	Prototype	1:00	4:00	
15	20R01A04E3	Prototype	1:00	4:00	
16	20R01A04H0	Prototype	1:00	4:00	
17	20R01A04G1	Prototype	1:00	4:00	
18	21R05A0418	Prototype	1:00	4:00	
19	20R01A04C7	Prototype	1:00	4:00	
20	20R01A04C5	Prototype	1:00	4:00	
21	20R01A04D1	Prototype	1:00	4:00	
22	20R01A04D9	Prototype	1:00	4:00	
23	20R01A04G7	Prototype	1:00	4:00	
24	21R05A0414	Prototype	1:00	4:00	
25	20R01A04E8	Prototype	1:00	4:00	
26	20R01A04E5	Prototype	1:00	4:00	
27	20R01A04E3	Prototype	1:00	4:00	
28	20R01A04H0	Prototype	1:00	4:00	
29	20R01A04G8	Prototype	1:00	4:00	
30	20R01A04F4	Prototype	1:00	4:00	
31	21R05A0414	Prototype	1:00	4:00	
32	20R01A04F2	Prototype	1:00	4:00	
33.	20R01A04H4	Prototype			

Principal
CMR INSTITUTE OF TECHNOLOGY
Kandlakoya (V), Medchal Road,
Hyderabad-501 401.

OUTCOME

Patent Details 2023

Sl. No.	Inventor/s Name	Title of the Patent	Status of Patent (Published / Granted)
1	Dr.S.Sathees Kumar	A Process For Synthesizing Polycaprolactam Composite	Published
2	Dr.Kolla Morarjee/Angotu Nageswara Rao/Amagothbalaram/G Krishna Lava Kumar	H-Booking: Hotel Booking Using Machine Learning	Published
3	Dr. G Naga Rama Devi	System and Method for Selecting Base Station in a Worldwide Interoperability for Microwave Access Network	Published
4	Dr. G Naga Rama Devi	System and Method for selecting access point among avaialable access points for Handoff Operation	Published
5	Dr. G Naga Rama Devi	System and Method for Selecting a Parent Node Among a Plurality of Available Parent Nodes	Published
6	Mr.A.Prakash/Mrs.Bigul Sunitha Devi/Mrs.Bethala Shirisha/ Mr.Hazari Venkata Ramana Rao/A.Mahalakshmi	Automated Quantification System For Tissue In Non Contrast Ct Images Using Deep Learning	Published
7	Dr. Prasad Janga/ Mohammad Shahbaz Khan	Entropy Based Image Retrieval Method For Faster Retrieving Of Images	Published
8	Dr. Prasad Janga	Smart Agri-Bot With Seed Sowing, Nutrients And Leaf Disease Identification For Better Crop Yield	Published
9	Dr. Prasad Janga/ Mohammad Shahbaz Khan	A Low-Cost Voice Recognition-Based Smart Notice Board For Infotainment In Colleges And Hospitals	Published

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10	**Dr.S.Velliangiri**	**Fetal Heart Monitoring System Based On Doppler Ultra Sound Device Embedded Smart Watch Architecture**	**Published**
11	**Mr D Rajkumar/ Mr K Raji Reddy/ Mr P Srinivas Reddy**	**On-Ion And Ion-Solvent Interactions Of Tetraalkyl Ammonium Bromide In Mixed Dmf-Water Systems At Different Temperatures**	**Published**
12	**Pavan Kumar Panakanti /Katakam Srinivas Rao**	**Design Patent On Display Device To Detect Data Malware**	**Published**
13	**Dr.L.Ponraj Sankar/ Dr.G.Aruna/ Mr. Akula Krishna Rao/Mr. K. Srinivas**	**Csfb-Material: Cold Setting Fly Ash Building Construction Materials**	**Published**
14	**Dr. Kumbala Pradeep Reddy, Dr. G. Naga Rama Devi, Dr. S. Alagumuthukrishnan , Dr. L. Arokia Jesu Prabhu Dr. C. Ashok Kumar, Mr.**	**Artificial Intelligence Based Critical Patient Urine Water Decomposer Using IOT**	**Published**
15	**Dr.Pradeep Kumar**	**Smart Mask Shaped Mouthset Capable Of Enhancing And Synthesizing Speech Even From Lip Movements**	**Published**
16	**Dr.Pradeep Kumar**	**Live Streaming Of High Dynamic Range Videos For IPTV From Iot Cloud Computing Hub Using Efficient**	**Published**
17	**Dr.B.Deepa**	**Creating A Self-Assessment Tool For An English-Language-Teacher And Its Implementation**	**Published**
18	**Bigul Sunitha Devi, A. Prakash, P. Pavan Kumar, Katakam Srinivasa Rao, Annavarapu Mahalakshmi,**	**Continous Covid and Lung Quality Monitoring using temporal breathing Patterns**	**Published**
19	**Dr. G Naga Rama Devi**	**Noisy Text Prediction In Large Volume Clinical Data Using Reinforcement Learning**	**Granted**
20	**Dr. G Naga Rama Devi**	**A RNN based Spatio Temporal Data Mining model for urban road Planning**	**Granted**

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21	**Dr. G Naga Rama Devi**	**Scientific Model For Predicting Change In Rainfall Using Climatic Raster Data Mining**	**Granted**
22	**Dr. G Naga Rama Devi**	**GPS data spoofing and malfunctioning detection system using classifiers**	**Granted**
23	**Dr. G Naga Rama Devi**	**Integrated Multimodal Sensor System For Agri Farms**	**Granted**
24	**Dr. G Naga Rama Devi**	**Navigation Technique For Self Driving Cleaning Robots For Congested Public Locations**	**Granted**
25	**Dr. G Naga Rama Devi**	**Dedicated functional area for leg operated computer interactive device for handless people**	**Granted**
26	**Dr. G Naga Rama Devi**	**A Method Of Tracking And Managing Municipal Wastes Using Geo-Spatial Technology**	**Granted**
27	**Dr. G Naga Rama Devi**	**Three-Dimensional Wind, Airspeed Calculation, And Prediction Method For Aerial Drones Using Deep Learning**	**Granted**
28	**Dr. G Naga Rama Devi**	**A Cnn Based Model For Disease Classification Using High Temporal And Spatial Resolution Images Of Simultaneous Eeg-Mri**	**Granted**
29	**Dr.T. Anil Kumar**	**Low Energy Communicator Between External Programmer And Implantable Medical Devices Using Ble Technology**	**Granted**
30	**Dr.Pradeep Kumar**	**Artificial Intelligence based Smart Computing On-Board ECU for Predicting Vehicle Parts Reliability and Failure**	**Granted**
31	**Ninni Singh, Vinit Kumar Gunjan, M Janga Reddy, A. Prakash, Kumbala Pradeep Reddy, M Pramod Reddy**	**Lower Back Exercise Training Device**	**Published**

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32	Ninni Singh, Vinit Kumar Gunjan, M Pramod Reddy, Satyanarayana Botumanchi, Thota Pratyusha, Krishna Lava Kumar Gopu	Plastic Thread Manufacturing Device	Published
33	Ninni Singh, Vinit Kumar Gunjan, Srinivasa Rao Katakam, Md.Shabaz Khan, P.PavanKumar, M Janga Reddy, M Pramod Reddy	Jump Rope Training Device	Published
34	Vinit Kumar Gunjan, Ninni Singh, Sri Rama Lakshmi Reddy. M, Nageswara Rao Angotu, Krishna Lava Kumar Gopu	Cooling Device For Beverage Container(S)	Published
35	Vinit Kumar Gunjan, Ninni Singh, Srinivasa Rao Katakam, Sunitha Devi Bigul, S.Dhanalakshmi, Md.Shabaz Khan, Alagamuthu Krishanan, P.PavanKumar	Nail Guiding And Driving Device	Published
36	Vinit Kumar Gunjan, Ninni Singh, A.Nageshwar Rao, M Pramod Reddy, Satyanarayana Botumanchi, Thota Pratyusha	Automated Wire Manufacturing Device	Published
37	Vinit Kumar Gunjan, Ninni Singh, K.Ruben Raju, M Janga Reddy, A. Prakash, Nirmal Kumar Anantha Kumar, M Pramod Reddy	Water Body Cleaning System	Published
38	Ninni Singh, Vinit Kumar Gunjan, M Janga Reddy, Veeresh Uppara, K. Niranjan Reddy, Prasad Janga, Pradeep Kumar	Sewage Maintenance Device	Published
39	Ninni Singh, Vinit Kumar Gunjan, M Janga Reddy, A. Prakash, Sri Rama Lakshmi Reddy. M, Nageswara Rao Angotu, Kumbala Pradeep Reddy	Dna (Deoxy Ribonucleic Acid) Extraction Device For Field Grown Crops	Published
40	Ninni Singh, Vinit Kumar Gunjan, M Janga Reddy, A. Prakash, Kumbala Pradeep Reddy, Satyanarayana Botumanchi, Thota Pratyusha	Multi-Exercise Training Shoe	Published

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Hyderabad-501 401.

PUBLICATIONS

Sl. No.	Name of the teacher	Title of the paper	Title of the proceedings of the conference	Year of publication	ISBN/ISSN number of the proceeding	Name of the publisher
1	Solanki V.K.,	An Improvement for Tomographic Density Imaging Using Integration of DBIM and Interpolation	Proceedings of the 2018 3rd IEEE International Conference on Research in Intelligent and Computing in Engineering, RICE 2018	2018	978-1-5386-2599-6	IEEE
2	Anjaneyulu D	Investigations on the Nitride Interface Engineering at HfO2/Ge stacks for MOS devices	Materials Today: Proceedings	2018	2214-7853	ElSEVIER
3	Asif S.	Efficient Hand Gesture Recognition for Traffic Control System Using ti Sensor Tag	2018 International Conference on Computer Communication and Informatics, ICCCI 2018	2018	978-1-5386-2238-4	IEEE
4	Rani K.S.	Image denoising using boundary discriminated switching bilateral filter with highly corrupted universal noise	2017 International Conference on Energy, Communication, Data Analytics and Soft Computing, ICECDS 2017	2018	978-1-5386-1887-5	IEEE
5	Kiran R.U.	Machining of AISI D2 Tool Steel with Multiple Hole Electrodes by EDM Process	International Conference on Recent Advances in Materials, Mechanical and Civil Engineering (ICRAMMCE 2017)	2018	978-1-5108-6111-4	IOP
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