

**RESEARCH
AND
DEVELOPMENT COMMITTEE
(R & D)
AY: 2021-2022**



ADITYA COLLEGE OF ENGINEERING

Approved by AICTE, Permanently Affiliated to JNTUK & Accredited by NAAC
Recognized by UGC under section 2(f) of UGC Act 1956

Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

Ref: ACOE/R&D/2021-22/Constitution of R&D

11-11-2021

CONSTITUTION OF RESEARCH AND DEVELOPMENT COMMITTEE

The undersigned is pleased to constitute the Research and Development Committee with the following members for the academic year 2021-22 to plan and enhance the quality aspects in research and development of our college.

S.No	Name	Designation	Roll
1	Dr.A.Ramesh	Principal	Chairman
2	Dr. Pullela SVSR Kumar	Dean – A&A	Coordinator
3	Dr. T.Anil Kumar	HOD - PT	Member
4	Dr. G S N Murthy	HOD - CSE	Member
5	Dr. G.Rama Krishna	HOD - ECE	Member
6	Dr.Y.K.Subba Rao	HOD – ME	Member
7	Prof. K. Manoj Kumar Reddy	HOD – EEE	Member
8	Prof. M.Srinivasu	HOD - H&S	Member
9	Dr.M.Ravindra	Associate Professor – EEE	Member
10	Dr. G. Meenakshi Sundaram	Professor – ECE	Member
11	Dr Marxim Rahula Bharathi B	Associate Professor – ME	Member
12	Dr.G.Balaji Prakash	Assistant Professor - H&S	Member
13	Koduri Subrahmanyam	IV Year, B.Tech-ECE	Student Member
14	Arubariki Srujana	IV Year, B.Tech-CSE	Student Member

Cc to all members of R&D Committee




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Ref: ACOE/R&D/2021-22/SOP

Date: 16-11-2021

Research and Development committee

Standard Operating Procedure 2021-22

Research and Development cell is an integral part of the academic activities of an institution. This committee is one of the wings of the Institute which facilitates, channelizes all the academic, sponsored, collaborative research projects and consultancy works in the institute. The committee's responsibilities in respect of the establishment and promotion of excellence in the Institute's research and development, academic and research training activities. This includes the development, review and monitoring of achievements under the Research & Development.

1. To create awareness about opportunities in Research and Development among the students and faculty and to create Research and Development atmosphere in every department.
2. To encourage faculty members of all the disciplines (Engineering /Science /Humanities/Management) to improve R&D activities for their professional growth.
3. To encourage and motivate the faculty to apply for Ph.D at various Universities.
4. To motivate the faculty members to enhance R&D activities by forming them into groups-based on their areas of interests/specialization.
5. To encourage staff members and students to publish technical articles for publishing in reputed National or International Conferences/Journals.
6. To undertake research activities and development projects offered by agencies such as ISRO, DRDO, CSIR, DST, AICTE, UGC, etc.

7. To assist the students to apply funding for conducting research and startups under student project scheme through various funding agencies like MSME, IEL (I), DRDO, TCS, Infosys etc.
8. To assist faculty for applying and getting funds under various research schemes for research promotion and conducting Seminar/Workshop/FDP from various funding agencies.
9. To facilitate the growth of research activity among the academic community, including developing mechanisms and setting targets to achieve this.
10. To develop and coordinate strategies for maximizing the faculty's success in gaining external research funding.
11. To maintain and disseminate current information about relevant research policy areas and initiatives in government agencies, relevant industries and external funding opportunities.
12. To develop strategies to foster research collaborations within the faculty, across faculty and institutes, and with agencies outside the college.
13. To work with various departments to establish and develop faculty research priorities on interdisciplinary areas.
14. To interact with industry, government, professionals and the wider community on all research matters and promote faculty research activities.
15. To coordinate faculty level workshops and staff development activities on research-related issues.
16. To maintain effective links with government departments, authorities, business, and commerce and industry organizations relevant to the college research activities.
17. Scrutinize the project proposals submitted by the students/staff and forwarding the same for financial assistance.
18. Advising the faculty members to publish their research work in Web of Science/Scopus indexed journals since they are having more credentials in NIRF ranking.
19. Oversee the application of the Code of Research Ethics for the responsible practice of research.

20. The committee will review the originality and quality of the content before publishing.

21. Recommending incentives for publishing articles/ patents/ book chapters/ consultancy projects as per the Incentive norms.

22. Evolution Procedure of Research contribution by Faculty/Students

Research and Consultancy Projects

Faculty members are encouraged to submit research projects to various funding agencies. The following are SOP for Research Projects submission.

- I. Research area of interests of the faculty members is identified.
- II. Faculty members have to prepare their documentation for their research projects.
- III. Faculty need to submit quality research and consultancy projects following ACOE code of ethics.
- IV. The document has to be submitted to the R&D cell for the approval.
- V. The support required for the faculty to submit the proposal will be provided.
- VI. After the approval of the R&D cell the research project proposal can be submitted to the agency.
- VII. The flowchart for the Research and Consultancy Projects is attached.

Research Publications

Faculty members are encouraged to submit research papers to the reputed journals and conferences. The following are SOP for Research paper publications.

- I. Research area of interests of the faculty members is identified.
- II. Faculty members have to prepare their documentation for their research papers.
- III. Faculty need to submit quality research publications following ACOE code of ethics.

- IV. The document has to be submitted to the R&D cell for the approval.
- V. The support required for the faculty to submit the research paper will be provided.
- VI. After the approval of the R&D cell the research paper can be submitted to the agency.
- VII. The flowchart for the Research Publications is attached.

Publication of Books/Book Chapters

Faculty members are encouraged to write books on their areas of interest. The following are SOP for publication of books.

- I. Area of interests of the faculty members is identified.
- II. Faculty members have to prepare the contents of book which has to be published.
- III. Faculty need to write quality documents following ACOE code of ethics.
- IV. The document has to be submitted to the R&D cell for the approval.
- V. The support required for the faculty to publish book will be provided.
- VI. After the approval of the R&D cell the documents in the prescribed format can be submitted to the Publisher based on author's interest.
- VII. The flowchart for the Publication of books is attached.

Patents

Faculties are encouraged to obtain Patent on their research work. The following are SOP for publishing patent.

- I. Research area of interests of the faculty member is identified.
- II. Faculty members have to prepare their documentation for their patents.
- III. Faculty need to write quality patents following ACOE code of ethics.
- IV. The document has to be submitted to the R&D cell for the approval.

- V. The support required for the faculty to publish patent will be provided.
- VI. After the approval of the R&D cell the patent can be submitted to the agency.
- VII. The flowchart for the Patent Publications is attached.

23. Incentives and Facilities for Researchers and Research scholars.

- I. Infrastructural facilities like Systems with high speed internet, Library with digital access are provided for Researchers and Research scholars
- II. Incentives :

Incentives for Publication of Research papers/book chapter/book/articles/patents:

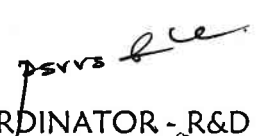
To promote research and its allied activities, the faculty is appraised with the following incentives:

International Journal with IF > 5 or H-Index > 25	- Rs. 25,000/-
International Journal with $2 < IF < 5$ or H-Index $15 < 25$	- Rs. 20,000/-
International Journal with $0.5 < IF < 15$ or H-Index $10 < 15$	- Rs. 15,000/-
International Journal with $IF < 0.5$ or H-Index $HI < 10$	- Rs. 10,000/-
International Journal (Scopus Indexed)	- Rs. 10,000/-
International Journal (WOS Indexed but not in Scopus)	- Rs. 5,000/-
UGC Indexed Journal (for English and Management Studies only)	- Rs. 2,000/-
International Conference Registration (Scopus Indexed) or Registration fee and actual expenditure whichever is lower	- Rs. 10,000/-
Incentive after the Conference paper is published in Scopus Indexed Proceedings	- Rs. 10,000/-
National Conference organized by NIT/IIT/Central University/ Deemed University / Research Laboratories/ Reputed institutes with Autonomous status with NAAC/NBA accreditation OR Registration fee and actual expenditure whichever is lower	- Rs. 4,000/-
Publishing of Text Books (International Edition)	- Rs. 20,000/-
(Indian Edition)	- Rs. 10,000/-
Publishing of Chapter in a Book	- Rs. 2,000/-
Publishing an article in a Journal / Magazine	- Rs. 2,000/-
Patent - National (Publication)	- Rs. 10,000/-
- National (Awarded)	- Rs. 10,000/-
Patent - US Patent	- Rs. 30,000/-

- III. In order to promote research and development activities, the college extends its full support to students/faculty/staff. Full/Partial financial support is given to all innovative research & development works taken up by the students and faculty.
- IV. The college encourages students, faculty and staff to participate in National/International Conferences, Training programs (IITs/NITs/State Engg. Colleges etc.) by giving financial support viz. course/registration fee, TA/DA etc.
- V. One week additional summer vacation is provided for Researchers.
- VI. Innovative projects by the students will be financially funded based on recommendation of a committee at the department / college level.
- VII. Best final year project / model in each department will be rewarded.

FUNCTIONS

- 1. To bring enthusiasm among the students and faculty members towards research and innovation.
- 2. To oversee and supervise research and development activities in the institute and to ensure the performance, by proper monitoring of research projects, publications.
- 3. To work closely with the industrial needs that eventually will result in new or improved products, processes, systems or services that can increase the company's productivity.
- 4. To set up a firm collaboration with other universities, public and private sectors and identify R&D projects including consultancy services which could be undertaken at the institution.
- 5. To promote research in various departments of the Institute.
- 6. To provide smooth functioning and effective management of R&D at the institution.


CO-ORDINATOR - R&D




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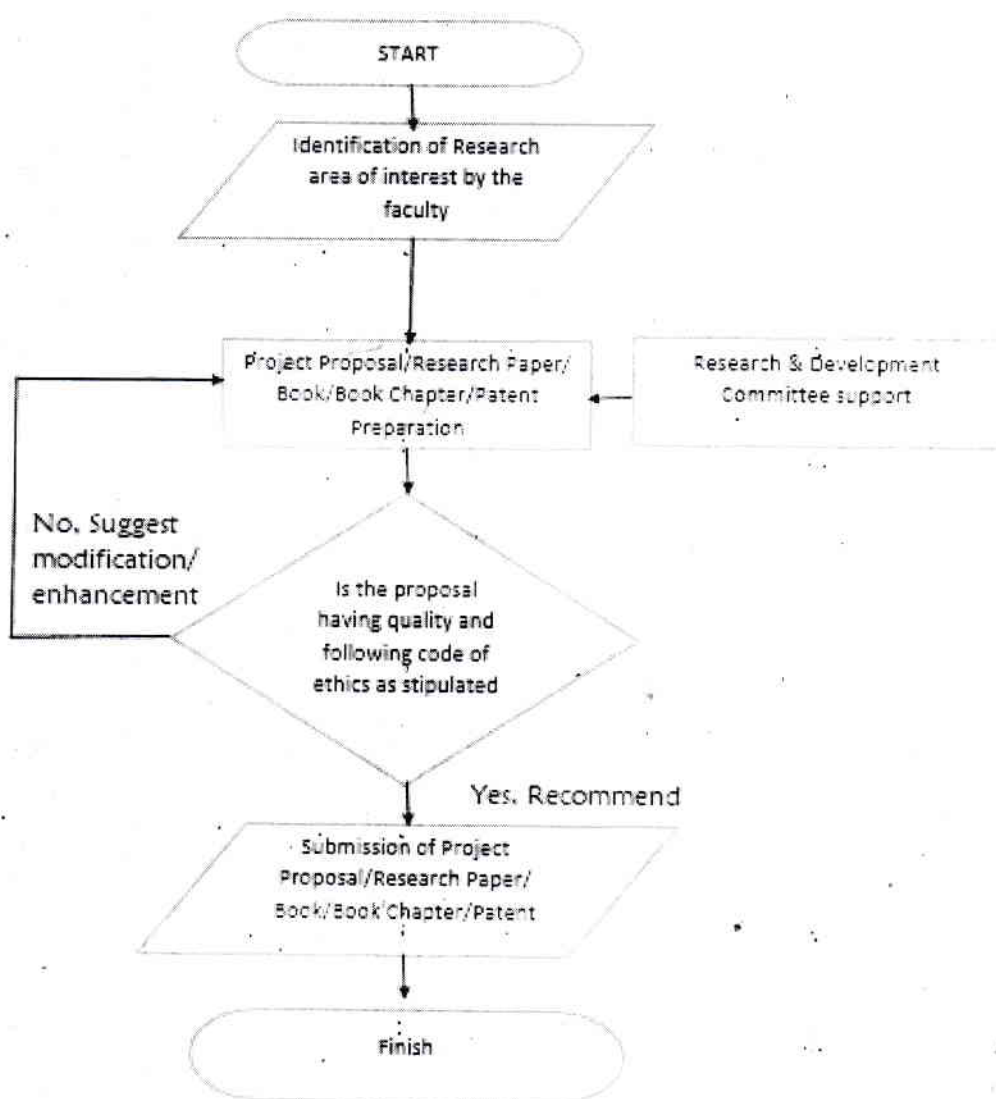
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Date: 16-11-2021

Research and Development cell

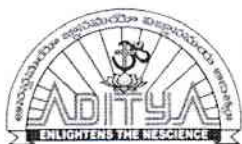
Flow Chart



Co-ordinator - R&D



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Ref: ACOE/R&D/2021-22/01/CIRCULAR

Date: 19.11.2021

CIRCULAR

This is to inform that R&D committee meeting is scheduled on 22.11.2021 at 10:00AM in Conference room, Ramanujan Bhavan. All R&D Committee members, Convener-EDC cell, Convener-IPR cell, and Convener Industry Institution Interaction Committee are requested to attend the meeting.

AGENDA

1. To discuss and prepare SOP.
2. To review the publications made by the faculty during the academic year 2019-20.
3. To review the research work status of faculty during the academic year 2019-20 who are pursuing their Ph.D.
4. To review publications during the academic year 2019-20 of M.Tech students.
5. To plan the FDP, Workshop, Seminar, Guest Lecture etc. to be organized by the college to enhance research work for the academic year 2020-21.
6. To enhance the number of papers to be published for the academic year 2020-21.
7. Any other point with the permission of the chair.




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Cc to: 1. All members of R&D committee

2. Convener-EDC cell,
3. Convener-IPR Cell,
4. Convener, Industry Institution Interaction Committee



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Ref: ACOE/R&D/2021-22/01/Minutes

22-11-2021

MINUTES OF RESEARCH & DEVELOPMENT (R&D) COMMITTEE ACADEMIC YEAR 2021-22

Date of meeting	22 nd November 2021	Duration	10.00AM to 11.30 NOON
Venue	Conference room, First floor, Ramanujan Bhavan		
Reference	ACOE/R&D/2021-22/01/CIRCULAR Dated 19.11.2021		

The R&D meeting of Aditya College of Engineering held on 22nd November 2021 with the following agenda:

1. To discuss and prepare SOP.
2. To review the publications made by the faculty during the academic year 2020-21.
3. To review the research work status of faculty during the academic year 2020-21 who are pursuing their Ph.D.
4. To review publications during the academic year 2020-21 of M.Tech students.
5. To plan the FDP, Workshop, Seminar, Guest Lecture etc. to be organized by the college to enhance research work for the academic year 2021-22.
6. To enhance the number of papers to be published for the academic year 2021-22.
7. Any other point with the permission of the chair.

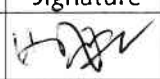
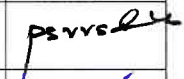
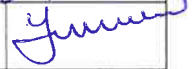
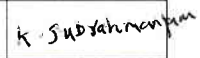
The meeting of R&D Committee commenced with a welcome note by, Dr. A.Ramesh, Chairman, and R&D Committee. The Coordinator, R&D Committee has extended his cordial welcome to all the members and readout the notes on agenda for discussion.

The following points as per the Agenda are discussed and resolutions are adopted.

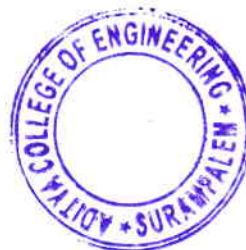
MINUTES AND RESOLUTIONS

1. All the members discussed about SOP and given suggestions regarding SOP.
2. 41 research papers were published in International/National Journals for the academic year 2020-21.
3. 31 research papers were presented in International/National conferences during the academic year 2020-21.
4. The committee has verified the plagiarism of the paper publications which are going to be submitted by the faculty for various journals and recommended suggestions.
5. The publications of M.Tech students were reviewed. The committee has expressed its satisfaction over the publications and advised that the quality of student papers is to be enhanced in future.
6. Faculty should attend minimum one FDP per semester.
7. At least one workshop is to be conducted by every department.
8. Committee advised the faculty to publish at least one SCI indexed and two Scopus indexed journal papers in a year.
9. Faculty members were also advised to use college mail ids for communicating journal and conference papers.
10. Committee has encouraged the faculty members for getting more number of sponsored projects.
11. Convener -IIC proposed to plan for Industrial collaboration to enhance industrial oriented research.
12. The Coordinator Dr. Pullela SVVSR Kumar conveyed thanks to all the members of R & D committee for attending the meeting and for giving their valuable suggestions to strengthen the research activities in the institution.

Members attended the meeting on 22nd November 2021

S.No	Name	Designation	Roll	Signature
1	Dr.A.Ramesh	Principal	Chairman	
2	Dr. Pullela SVVSR Kumar	Dean – A&A	Coordinator	
3	Dr. T.Anil Kumar	HOD - PT	Member	
4	Dr. G S N Murthy	HOD - CSE	Member	
5	Dr. G.Rama Krishna	HOD - ECE	Member	
6	Dr.Y.K.Subba Rao	HOD – ME	Member	
7	Prof. K. Manoj Kumar Reddy	HOD – EEE	Member	
8	Prof. M.Srinivasu	HOD - H&S	Member	
9	Dr.M.Ravindra	Associate Professor – EEE	Member	
10	Dr. G. Meenakshi Sundaram	Professor – ECE	Member	
11	Dr Marxim Rahula Bharathi B	Associate Professor – ME	Member	
12	Dr.G.Balaji Prakash	Assistant Professor - H&S	Member	
13	Koduri Subrahmanyam	IV Year, B.Tech-ECE	Student Member	
14	Arubariki Srujana	IV Year, B.Tech-CSE	Student Member	


CO-ORDINATOR




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Ref: ACOE/R&D/2021-22/02/CIRCULAR

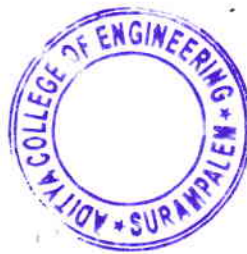
Date: 11.04.2022

CIRCULAR

This is to inform that R&D committee meeting is scheduled on 15.04.2022 at 02:30PM in Conference room, Ramanujan Bhavan. All R&D Committee members, Convener-EDC cell, Convener-IPR cell, and Convener Industry Institution Interaction Committee are requested to attend the meeting.

AGENDA

1. To review the research publications made by the faculty during 2020-21 (1st Semester).
2. To review the conduct of different organized events related towards research enhancement during 2021-22 (1st Semester).
3. Any other point with the permission of the chair.



- Cc to: 1. All members of R&D committee
2. Convener-EDC cell,
3. Convener-IPR Cell,
4. Convener, Industry Institution Interaction Committee


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Ref: ACOE/R&D/2021-22/02/Minutes

15-04-2022

MINUTES OF RESEARCH & DEVELOPMENT (R&D) COMMITTEE ACADEMIC YEAR 2021-22

Date of meeting	15 th April 2022	Duration	2.30PM to 4.30 PM
Venue	Conference room, First floor, Ramanujan Bhavan		
Reference	ACOE/R&D/2021-22/02/CIRCULAR Dated 11.04.2022		

The R&D meeting of Aditya College of Engineering held on 15th April 2022 with the following agenda:

1. To review the research publications made by the faculty during 2021-22 (1st Semester).
2. To review the conduct of different organized events related towards research enhancement during 2021-22 (1st Semester).
3. Any other point with the permission of the chair.

The meeting of R&D Committee commenced with a welcome note by, Dr. A.Ramesh, Chairman, R&D Committee. The Coordinator, R&D Committee has extended his cordial welcome to all the members and readout the notes on agenda for discussion.

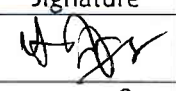
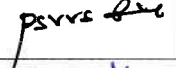
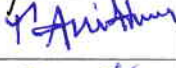
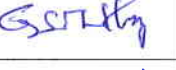
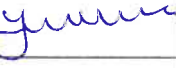
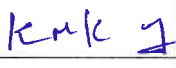
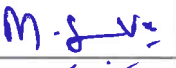
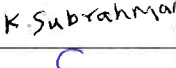
The following points as per the Agenda are discussed and resolutions are adopted.

MINUTES AND RESOLUTIONS

1. The members of the committee discussed regarding number of published papers of each department and noticed that the number of publications is less. The members of the committee proposed to motivate the faculty towards research work and publish more number of papers in reputed journals.
2. The committee has substantiated the organized events related towards research enhancement during 2021-22.

3. Convener IPR Cell suggested proper verification of research papers should be mandatory before submission and the same was accepted and resolved in the meeting.
4. The meeting is concluded with thanks to the chair.

Members attended the meeting on 15th April 2022

S.No	Name	Designation	Roll	Signature
1	Dr.A.Ramesh	Principal	Chairman	
2	Dr. Pullela SVVSR Kumar	Dean – A&A	Coordinator	
3	Dr. T.Anil Kumar	HOD - PT	Member	
4	Dr. G S N Murthy	HOD - CSE	Member	
5	Dr. G.Rama Krishna	HOD - ECE	Member	
6	Dr.Y.K.Subba Rao	HOD – ME	Member	
7	Prof. K. Manoj Kumar Reddy	HOD – EEE	Member	
8	Prof. M.Srinivasu	HOD - H&S	Member	
9	Dr.M.Ravindra	Associate Professor – EEE	Member	
10	Dr. G. Meenakshi Sundaram	Professor – ECE	Member	
11	Dr Marxim Rahula Bharathi B	Associate Professor – ME	Member	
12	Dr.G.Balaji Prakash	Assistant Professor - H&S	Member	
13	Koduri Subrahmanyam	IV Year, B.Tech-ECE	Student Member	
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CO-ORDINATOR




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CONFERENCE PUBLICATIONS BY THE FACULTY 2021-22

Sl. No.	Name of the Faculty	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / international	Year of publication
1	Kalesh busa	Efficient Design of Multiplier using EGD Technique	International conference on "Applied Electromagnetics, Signal Processing & Communication"	IEEE- 2nd International Conference, AESPC	International	2021-22
2	Kalesh busa	Cloud Based Wireless Sensor Network for Industrial Parameter Monitoring, Fault Detection and Alerting Systems	International Conference on Artificial Intelligence and IoT	ICAIIT-2021	International	2021-22
3	Dr. Manam Ravindra	Optimal Allocation of Micro-Phasor Measurement Units in Distribution Network considering Security Constraints	Sixth International Conference in Communication, Devices and Networking	ICCDN-2021	International	2021-22
4	Tata Himaja	Study of Soft-Start based Induction Generator for Wind Energy Conversion System	Asian Conference on Innovation in Technology	ASIANCON-2021	International	2021-22
5	G. Veerapandu	Cloud enabled Architecture of 5G small cell network	International conference on advances in computer Engineering and Communication Technology	ICACET	International	2021-22

6	G. Veerapandu	A comparative study of Different IOT sensors	International conference on Mechanical and Energy Technology	ICMET- 2021	International	2021-22
7	R.S.S.Raju,V.Ravi Kishore,Y.Durga Prasad,Dr. S.Rama Sree,	Identification of brain Tumour with the help of Conventional Neural Networks	3rd International Conference on Multidisciplinary Innovation in Academic Research	ICMIAR-2021	International	2021-22
8	Dr.B.Annapurna	Anti Terrorism and Riot(ATR) Robot- The Technological intervention to Domestic Terrorism	International conference on advances in computer Engineering and Communication Technology	ICACET-2021	International	2021-22
9	Dr. B.Annapurna	Portable Stress Measurement & analysis System (PSMAS) : The correlation of body and mind Analysis Using GSR Sensor	International Conference on Emerging Electronics and Automation	E2A:2020-2021.	International	2021-22
10	Koppiseti Giridhar	Energy Efficient Hybrid Route Optimization Algorithms in VANETs - A Review	Recent Trends in Computing and Information Technology	RTCIT'21.	International	2021-22
11	Dr. Murthy GSN	Texture Unit Pattern Approach for Fabric Classification	International Conference on Machine Intelligence and Signal Processing	MISP-2021	International	2021-22
12	Dr. S V V S R Kumar Pullela	OXG Boost : An Optimized eXtreme Gradient Boosting Algorithm for Classification of Breast Cancer	International Conference on Machine Intelligence and Signal Processing	MISP-2021.	International	2021-22

13	Venneti kiran	A comprehensive survey on IoT Development modules and its applications	International Conference on Signal Processing & Communication Engineering Systems	SPACES-2021	International	2021-22
14	Venneti kiran	Detection of liveliness by fusing ECG and Fingerprint	International Conference on Signal Processing & Communication Engineering Systems	SPACES-2021.	International	2021-22
15	Venneti kiran	Deep CNN based model for detection and classification of Glaucoma using Fundus images	International Conference on Advances in Computer Engineering and Communication Technology	ICACET 2021.	International	2021-22
16	Geesala Veerapandu	Ada Boost learning based recognition of hand gesture for deaf and dumb for american sign language	International Conference on Advances in Computer Engineering and Communication Technology	ICACET-2021.	International	2021-22
17	Marxim Rahula Bharathi B	Development of vibrations analyzer using microprocessor and estimation of natural frequencies of simply supported beam	Virtual International Conference on Impact of IoT and Machine Learning in Mechanical Engineering	ICIIMLE'21	International	2021-22
18	Jyothi Budida	Beneficial role of carbon nanotubes in nano-optics and nano photonics	INTERNATIONAL CONFERENCE ON ENGINEERING AND ADVANCEMENT IN TECHNOLOGY	ICEAT 2022	International	2021-22
19	Dr. R. Raman	Improved Speaker Identification System Based on MFCC and DMFCC Feature Extraction Technique	Fourth International Conference on Electrical, Computer and Communication Technologies	IEEE, ICECCT- 2021.	International	2021-22

20	Kalash Buxa	Cloud Based Wireless Sensor Network for Industrial Parameter Monitoring, Fault Detection and Alerting System	International conference on Artificial Intelligence and Information International Conference on Innovative Research in engineering and technology. 01-11-2021	ICACET 2021	International	2021-22
21	M. Kishore Kumar	Hybrid Algorithm approach performance improvement in Brain tumor segmentation and classification	International Conference on Innovative Research in engineering and technology. 29&30 Sep-2021	ICIRST 2021	International	2021-22
22	Dr. M Ravindra	Sensitivity based Allocation of FACTS devices in a Transmission system considering Differential Analysis	Artificial Intelligence Techniques for Electrical Engineering Systems	AITEES-2022	International	2021-22
23	Dr. A .Ramesh	Modelling in Simulation of Hybrid Boosting Converter for Fuel Cell Applications	Artificial Intelligence Techniques for Electrical Engineering Systems	AITEES-2023	International	2021-22
24	Dr. D.V. S. S. V. Prasad	A significant feature selection to improve the accuracy of a classification algorithm for steel defect	4th International Conference on Inventive Research in Computing Applications	ICIRCA 2022	International	2021-22
25	Dr. Pullela SVVS Ravi Kumar	OXGBOOST: An Optimized eXtreme Gradient Boosting Algorithm for Classification of Breast Cancer	Advanced Machine Intelligence and Signal Processing	Advanced Machine Intelligence and Signal Processing	International	2021-22

26	Dr. G.S.N.Murthy	A Fact-Based Liver Disease Prediction by Enforcing Machine Learning Algorithm	International Conference on Machine Intelligence and Signal Processing	MISP2022	International	2021-22
27	Dr.B.Annapurna	Anti-Terrorism & Riot(ATR) Robot - The technological Intervention to Domestic Terrorism	International Conference on Machine Intelligence and Signal Processing	MISP2023	International	2021-22
28	Dr.B.Annapurna	Portable Stress Measurement and Analysis System(PSMAS): The correlation of body and mind analysis using GSR Sensor	International Conference on Emerging Electronics and Automation	E2A 2021	International	2021-22
29	Mr.Y.Durga Prasad	Identification of Brain Tumor with the Help of Convolution Neural Networks	International Conference on Multidisciplinary Innovation in Academic Research	ICMIAR-2021	International	2021-22
30	Mr K Giridhar	Energy efficient hybrid route optimisation algorithm in VANETS- A review	National Conference On Recent Trends In Computing And Information Technology (RTCIT'21)	RTCIT'21	National	2021-22



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JOURNAL PUBLICATIONS BY THE FACULTY 2021-22

S. No	Title of Paper	Name of the author	Department of the Faculty	Name of Journal	Year of publication	ISBN/ISSN number
1	A numerical approach to find distinct mechanisms of a planar kinematic chain using linkage coordinates	Dr. D.V.S.S.V. Prasad	Mech	Springer's LNME	2021-2022	ISSN:978-981-16-2794-1
2	In-situ grafting of Au and Cu nanoparticles over graphitic carbon nitride sheets and unveiling its superior supercapacitive performance as a hybrid composite electrode materia	Dr. Inamul Hussain	ECE	Journal of Energy Storage	2021-2022	ISSN:2352-152X
3	Security tags	Dr. B Kiran Kumar	CSE	International Journal of Computer Sciences and Engineering	2021-2022	ISSN: 2347-2693
4	Processing and Properties of Advanced Fiber Reinforced Polymer Matrix Composites	Dr.Y.K. S. S. Rao	Mech	Advances in polymer thechnology	2021-2022	ISSN: 0730-6679
5	Infrared Thermal Images of Solar PV Panels for Fault Identification Using Image Processing Technique	Dr.Y.K. S. S. Rao	Mech	Journal journal of photoenergy	2021-2022	ISSN:1110-662X

6	Optimization of WEDM Process Parameters in Al2024-Li Si3N4 MMC	Dr. D.V.S.S.V. Prasad	Mech	Journal of Nanomaterial	2021-2022	ISSN: 1687-41
7	Assessment of Rotational Speed and Plunge Rate on Lap Shear Strength of FSSW Joints of AA7075/Mild Steel	Dr. D.V.S.S.V. Prasad	Mech	Advances in Materials Science and Engineering	2021-2022	ISSN: 1687-8442
8	Mechanical Properties of Ramie/Hemp Hybrid Composites Influenced by Stacking Arrangement and NaOH Treatment	Dr. D.V.S.S.V. Prasad	Mech	Advances in Polymer Technology	2021-2022	ISSN: 1098-2329
9	The Element of Emotional Intelligence and their Impact on Social Relation	Dr. B. Annapurna	CSE	International Journal of Early Childhood Special Education.	2021-2022	ISSN : 1308-5581
10	Proposing a reliable method of securing and verifying the credentials of graduates through blockchain	Dr. B. Annapurna	CSE	EURASIP Journal on Information Security	2021-2022	ISSN:2510-523X
11	Air Pollution: Effect on Human Health and Live Reporting Using IOT Technology	Dr. B. Annapurna	CSE	Turkish Journal of Physiotherapy and Rehabilitation	2021-2022	ISSN: 2651-4451
12	PeltierRadiator: TheSmart Heating/Cooling System for Vehicles with IOT Reporting	Dr. B. Annapurna	CSE	Turkish Journal of Physiotherapy and Rehabilitation	2021-2022	ISSN: 2651-4451
13	New Control Strategy Based Photovoltaic Water Pumping System Using BLDC Motor Drive	Mr.D.Tata Rao		International Journal of Emerging Technologies and Innovative Research	2021-2022	ISSN: 2349-5162

14	Energy management system for hybrid electrical vehicle using a bidirectional dc/dc converter using fuzzy logic controller	Mr.K.Manoz Kumar Reddy	EEE	International Journal of Emerging Technologies and Innovative Research	2021-2022	ISSN-2349-5162
15	Improvement of power quality in residential home using fllc based multilevel inverter	Mr.K.Manoz Kumar Reddy	EEE	Journal of Emerging Technologies and Innovative Research	2021-2022	ISSN-2349-5162
16	Power Factor Improvement in Rectifier Based Electric Vehicle Charger and Harmonic Reduction	M.Satyanarayana Raju	EEE	The International journal of analytical and experimental modal analysis	2021-2022	ISSN :0886-9367
17	Evaluate and Design the Mini-Hexagon-Shaped Monopole Antenna Controller to Minimize Losses in the Unit	Dr.R.Raman	ECE	Journal of Nuclear Energy Science & Power Generation Technology	2021-2022	ISSN:2325-9809
18	Ionic Liquid-Multi Walled Carbon Nanotubes-I-lysine Modified Glassy Carbon Electrode for Detection of Prednisolone	Dr. G Meenakshi Sundaram	ECE	Journal of Molecular Liquids	2021-2022	ISSN : 0167-7322
19	Energy-efficient routing transmission for IoT based wireless body sensor network for health care monitoring system	Dr.C. Balaji Prakash	H& BS	International journal of Health sciences	2021-2022	ISSN : 2550-6978
20	Non-Uniform Amplitude Distribution of Circular array with Beam Steering VOL:50 , ISSUE:3	Mrs. Jyothi Budida	H& BS	Journal of Huazhong University of Science and Technology	2021-2022	ISSN:1671-4512
21	Optimized Non-Uniform circular Array Design Using SGOA	Mrs. Jyothi Budida	H& BS	Turkish Online Journal of Qualitative Inquiry	2021-2022	
22	Role of Nano Optics in High Performance Integrated Circuits & Consumer Electronics	Mrs. Jyothi Budida	H& BS	GIS SCIENCE JOURNAL	2021-2022	ISSN :1869-9391

23	Power Management and Control of Fuel Cell based Hybrid Microgrid with Interlinking Converter	K Lakshmi	EEE	Science, Technology and Development	2021-2022	ISSN : 0950-0707
24	Facial Emotions recognition system for tested images by using naive bayes classification.	M.Kishore Kumar	ECE	Advances and Applications in Mathematical Sciences	2021-2022	ISSN:0974-6803
25	Wideband antenna array for C Band applications	M.Kishore Kumar	ECE	Design Engineering	2021-2022	ISBN : 0011-9342
26	Hybrid Feature-Based Disease Detection in Plant Leaf Using Convolutional Neural Network, Bayesian Optimized SVM, and Random Forest Classifier	Dr. U.S.B. K. Mahalaxmi	ECE	Journal of food quality	2021-2022	ISSN : 0146-9428
27	Using Electro encephalogram Classification in a convolutional network, infer privacy on health care internet of things 5.0	Dr. U.S.B. K. Mahalaxmi	ECE	Expert Systems	2021-2022	ISSN: 1468-0394
28	Durability studies on high strength concrete using low water absorption percentage of Ground Granulated Blast-furnace Slag (GGBS)	U.Praveen Kumar	CIVIL	Adoption science and technology	2021-2022	ISSN: 2636174
29	Structural behavior of nanocoated oil palm shell as coarse aggregate in lightweight concrete	Dr.V.Swamy Nadh	CIVIL	Journal of nanomaterials	2021-2022	ISSN: 1687-4129

30	Effect of Nano Ground Granulated Blast Furnace Slag (GGBS) Volume% on Mechanical Behaviour of High-Performance Sustainable Concrete	Dr.V.Swamy Nadh	CIVIL	Journal of nanomaterials	2021-2022	ISSN: 1687-4129
31	Design and Optimization of Microstrip patch Antenna via Improved Metaheuristic Algorithm	Dr.Ramakrishna Guttula	ECE	Wireless Personal Communications volume	2021-2022	ISSN:1572-834X
32	A novel approach to find optimum group replacement period	Dr. D.V.S.S.V. Prasad	Mech	Materials Today: Proceedings	2021-2022	ISSN: 2214-7853
33	An additive approach to find distinct mechanisms of a planar kinematic chain	Dr. D.V.S.S.V. Prasad	Mech	Materials Today: Proceedings	2021-2022	ISSN: 2214-7853
34	A rigidity approach to find distinct mechanisms of a planar kinematic chain	Dr. D.V.S.S.V. Prasad	Mech	Materials Today: Proceedings	2021-2022	ISSN: 2214-7853
35	Teacher's perspective about Online Teaching-Learning	Dr. Marxim Rahul Bharati	Mech	Research Journal in Science, Engineering and Technology (IARJSET)	2021-2022	ISSN: 2394-1588
36	RA 123 s: Three metaphor-less Algorithms for Economic Load Dispatch Solution	Ravindra Manam, K.Manoz Kumar Reddy	EEE	Journal of Electrical Engineering & Technology	2021-2022	ISSN 2093-7413
37	Study of different techniques to mitigate temporary overvoltage in photovoltaic system	Dr.A. Ramesh	EEE	Materials Today: Proceedings	2021-2022	ISSN: 2214-7853
38	Design of sliding mode controller for induction motor drive	Dr. A. Ramesh	EEE	Materials Today: Proceedings.	2021-2022	ISSN: 2214-7853.

39	Circuit analysis and modelling of dual active bridge bidirectional converter	Dr. A. Ramesh	EEE	Materials Today: Proceedings	2021-2022	ISSN: 2214-7853
40	Optimal Capacitor Placement - A Bibliometric Survey	K V S Ramachandra Murthy	EEE	Library Philosophy and Practice (e journal)	2021-2022	2021,ISSN: 1522-0222.
41	Electric vehicles Charging in India: Infrastructure planning and Policy Aspects	A S Veerendra	EEE	Energy Storage-Wiley Publications	2021-2022	ISSN:2578-4862
42	Load Flow Solution of Distribution Systems - A Bibliometric Survey	K. V. S. Ramachandra Murthy	EEE	Library Philosophy and Practice (e-journal)	2021-2022	ISSN 2766-1415
43	Analysis of performance, combustion, and emission parameters in areactivity-controlled combustion ignition (RCCI) engine - an intensive review	G. Meenakshi Sundaram	ECE	International Journal of Ambient Energy	2021-2022	ISSN 2162-8246
44	Proposing A Reliable Method of Securing Verifying the Credentials of Graduates Through Block Chain"	Dr.B.Annapurna	CSE	CSE Journal EURASIP Journal on Information Security	2021-2022	ISSN:2510-523X
45	Investigations of combustion, performance, and emission characteristics in a diesel engine fueled with Prunus domestica methyl ester and n-butanol blends	Bhanu Teja Nalla	Mech	Mech Journal Environmental Progress & Sustainable Energy	2021-2022	ISSN: 1944-7450
46	Experimental analysis of Sterculia foetida biodiesel and butanol blends as a renewable and eco-friendly fuel	Bhanu Teja Nalla	Mech	Mech Journal Industrial Crops and Products	2021-2022	ISSN:9266669
47	Biodiesel blends: a comprehensive systematic review on various constraints	Yarrapragada K.S.S. Rao	Mech	Mech Journal Environmental Science and Pollution Research	2021-2022	ISSN: 1614-7499

48	Production of biodiesel from phoenix sylvestris oil: Process optimisation technique	Bhanu Teja Nalla	Mech	Mech Journal Sustainable Chemistry and Pharmacy	2021-2022	ISSN: 2352-5541
49	Analysis on improving the conversion rate and waste reduction on bioconversion of Citrullus lanatus seed oil and its characterization	Bhanu Teja Nalla	Mech	Mech Journal Sustainable Chemistry and Pharmacy	2021-2022	ISSN: 2352-5541
50	An experimental study on transesterification process and emission analysis of diesel engine propelled with Capparis spinosa biodiesel	Bhanu Teja Nalla	Mech	Mech Journal Biomass Conversion and Biorefinery	2021-2022	ISSN: 21906815
51	Biofuel production from novel Prunus domestica kernel oil: process optimization technique	Bhanu Teja Nalla	Mech	Mech Journal Biomass Conversion and Biorefinery	2021-2022	ISSN: 21906815
52	Production Process Optimization study on the synthesis of Manikara zapota seed bio-oil and its characterization	Bhanu Teja Nalla	Mech	Mech Journal Biomass Conversion and Biorefinery	2021-2022	ISSN: 21906815
53	Performance analysis of mineral oil based nano-lubricants with sulphur impregnated reduced graphene oxide nanosheets	Bhanu Teja Nalla	Mech	Mech Journal Materials Today: Proceedings	2021-2022	
54	Facial Emotion Recognition and Detection Using CNN	Dr. B Kiran Kumar	CSE	CSE Journal Turkish Journal of Computer and Mathematics Education	2021-2022	ISSN: 5960-5968.
55	Processing and characterization of carbon nanofibre composites for automotive applications	Dr. Anjibabu Merneedi	Mech	Mech Journal Journal of Nanomaterials	2021-2022	ISSN: 1687-4110
56	Evaluating the Mechanical and Tribological Properties of DLC Nanocoated Aluminium 5051 Using RF Sputtering	Dr. Anjibabu Merneedi	Mech	Mech Journal Journal of Nanomaterials	2021-2022	ISSN: 1687-4129

57	Experimental Investigation on Mechanical Properties of Carbon Nanotube-Reinforced Epoxy Composites for Automobile Application	Dr. Anjibabu Merneedi	Mech	Mech Journal Journal of Nanomaterials	2021-2022	ISSN: 1687-4129.
58	Synthesis and characterization of polypropylene/ramie fiber with hemp fiber and coir fiber natural biopolymer composite for biomedical application	Dr. Anjibabu Merneedi	Mech	International Journal of Polymer Science Mech	2021-2022	ISSN: 1687-9430.
59	Improvement on Mechanical Properties of Submerged Friction Stir Joining of Dissimilar Tailor Welded Aluminum Blank	Dr. Anjibabu Merneedi	Mech	Mech Journal Advances in Materials Science and Engineering	2021-2022	ISSN: 1687-8442.
60	Optimization on operation parameters in reinforced metal matrix of AA6066 composite with HSS and Cu	Dr. Anjibabu Merneedi	Mech	Mech Journal Advances in Materials Science and Engineering	2021-2022	ISSN: 1687-8442.
61	Free Vibration Analysis of Thick Rectangular and Elliptical Plates with Concentric Cut-Out	Dr. Anjibabu Merneedi	Mech	Mech Journal Advances in Materials Science and Engineering	2021-2022	ISSN: 1687-8442.
62	Investigation on Forestry Wood Wastes: Pyrolysis and Thermal Characteristics of Ficus religiosa for Energy Recovery System	Dr. Y. K. S. Subba Rao	Mech	Mech Journal Advances in Materials Science and Engineering	2021-2022	ISSN: 1687-8442

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PATENTS 2021-22

S. No.	Name of Faculty	Title	Application	Year
1	Dr. A. Ramesh	Agri-Tech Farming Revolution For Using PLC Solar Water and Fertilizers Pump with New Altered-Nozzle	Intellectual Property India- 202141049447	2021-22
2	Dr. GSN Murthy	Prediction of Crop Yield Using Agriculture Parameters	Intellectual Property India- 202141044914	2021-22
3	Mr. Y. Ravi Raju	An Implementation of Effective Storage System in Hadoop Architecture for Dynamic File Selection in Big Data Analytics	Intellectual Property India- 202241012129	2021-22
4	Mr. L. Manoj Krishna	An Intelligent Vision Gadget For Visually Handicapped People Based On The IoT	Intellectual Property India- 202241012129	2021-22
5	Mr. Ch. UP Kumar	IoT Based Automated Green Energy Management of Public Gardens	Australian Government IP Australia- 22021107102	2021-22
6	Dr. A. Ramesh	Body Vitals Monitoring Smart Mobility Assistance Walker	Intellectual Property India- 202141003016	2021-22
7	Dr. DVSSSV Prasad	System to develop cloud based fabricating method	Intellectual Property India- 202141003016	2021-22
8	Dr. Marxim Rahuja Bharathi B	Design And Implementation Of Smart Air Quality Detection System Based On IoT	Intellectual Property India- 202121018506	2021-22
9	Dr. Y K S Subba Rao	Portable incense burner with automatic ash disposal	Intellectual Property India- 202141033818	2021-22

10	Dr. Y K S Subba Rao	Development Of Multi-Sensor Smart Robot For Intelligent Border Security Surveillance System	Intellectual Property India-202141033795	2021-22
11	Dr. Guttula Ramakrishna	Method for minimizing the battery power using mobile adhoc networks	Australian Government IP Australia-2021102440	2021-22
12	Dr. R. Raman	Design And Modelling Of IoT Based Cotton Picker Cum Boom Sprayer	Intellectual Property India-202141055041	2021-22
13	Dr. R. Raman	Combination Of An IoT Based Rural Village Micro-Grid Regulator Strategy Based On Smart-Grid Multipotent Modelling And Trans Active Energy Administration Values	Intellectual Property India-202141057954	2021-22
14	Dr. U.S.B.K. MAHALAXMI	An Efficient Iris Recognition system with complete local ternary pattern feature extraction and classification method	Australian Government IP Australia-2021102309	2021-22
15	Mr. M. Venkateswarulu	Nano bio compatible hydrogels for treating external injuries	Intellectual Property India-202141035949	2021-22
16	Mrs. K. Suma	Method to Observe Fast Data Transmission Light Rays	Intellectual Property India-202241008278	2021-22




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