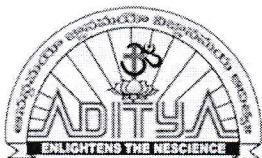


**RESEARCH
AND
DEVELOPMENT COMMITTEE
(R & D)
AY: 2020-2021**



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Ref: ACOE/R&D/2020-21/Constitution of R&D

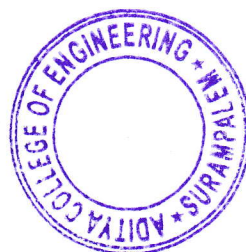
27-01-2021

CONSTITUTION OF RESEARCH AND DEVELOPMENT COMMITTEE

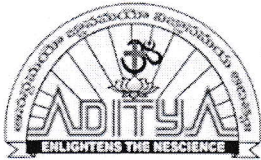
The undersigned is pleased to constitute the Research and Development Committee with the following members for the academic year 2020-21 to plan and enhance the quality aspects in research and development of our college.

S.No	Name	Designation	Roll
1	Dr.A.Ramesh	Principal	Chairman
2	Dr. Pullela SVVSR Kumar	Dean A & A	Coordinator
3	Dr.T.Anil Kumar	HOD - PT	Member
4	Dr.T.Durga Prasad	HOD - MBA	Member
5	Prof. 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.B.M.Rahula Bharathi	Associate Professor - ME	Member
12	Dr. A.Neeraja	Professor - H&S	Member
13	Mr. Kollu Srikrishna	Student (IV year)	Member
14	Ms. Kotti Sravya	Student (IV year)	Member

Cc to all members of R&D Committee




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Ref: ACOE/R&D/2020-21/SOP

Date: 27-01-2021

Research and Development committee

Standard Operating Procedure 2020-21

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, IEI (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

Faculty 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.25000/-
International Journal with $2 < IF < 5$ or H-Index $15 < 25$	-Rs. 20,000/-
International Journal with $0.5 < IF < 15$ or H-Index $10 < 1$	-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/-

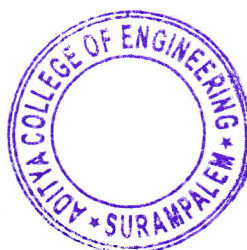
Patent	- National (Publication)	- Rs. 10,000/-
	- National (Awarded)	- Rs. 10,000/-
Patent	- US Patent	- Rs. 30,000/-

- 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.

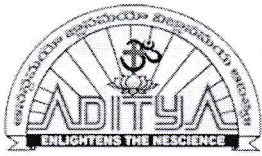
FUNCTIONS

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.

Coordinator - R&D



Principal
Aditya College of Engineering
SURAMPALEM - 533 437



ADITYA COLLEGE OF ENGINEERING

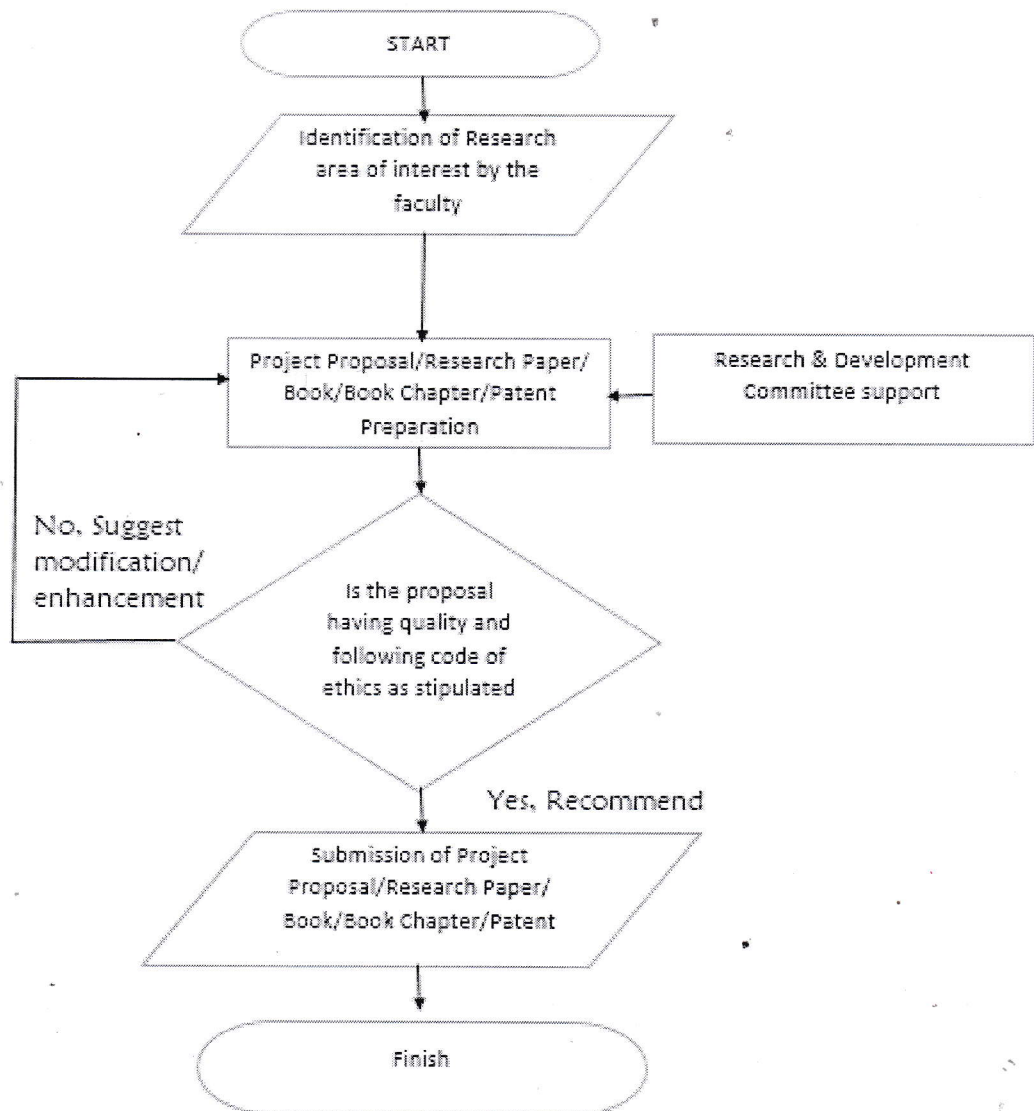
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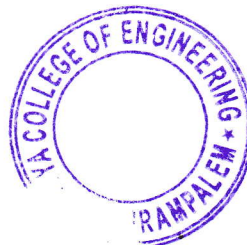
Date: 27-01-2021

Research and Development cell

Flow Chart

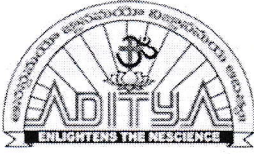


Coordinator – R&D





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Ref: ACOE/R&D/2020-21/01/CIRCULAR

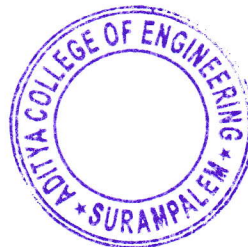
Date: 03.02.2021

CIRCULAR

This is to inform that R&D committee meeting is scheduled on 10.02.2021 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

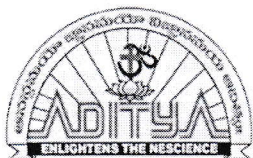
1. To discuss and prepare SOP.
2. To review the publications made by the faculty during the academic year 2019-20.
3. To review the research work status of faculty during the academic year 2019-20 who are pursuing their Ph.D.
4. To review publications during the academic year 2019-20 of M.Tech students.
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/2020-21/01/Minutes

10-02-2021

MINUTES OF RESEARCH & DEVELOPMENT (R&D) COMMITTEE ACADEMIC YEAR 2020-21

Date of meeting	10 th February 2021	Duration	10.00AM to 11.30 NOON
Venue	Conference room, First floor, Ramanujan Bhavan		
Reference	ACOE/R&D/2020-21/01/CIRCULAR Dated 03.02.2021		

The R&D meeting of Aditya College of Engineering held on 10th February 2021 with the following 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.

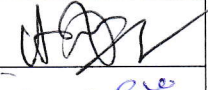
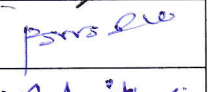
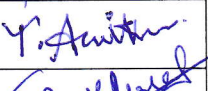
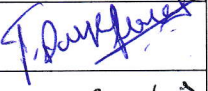
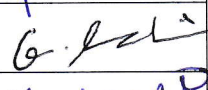
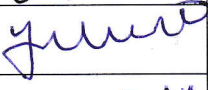
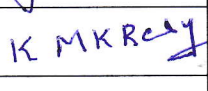
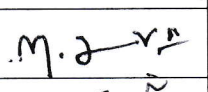
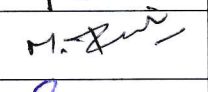
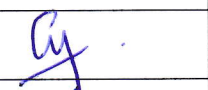
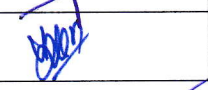
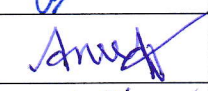
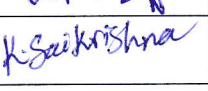
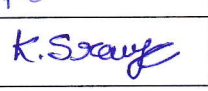
The meeting of R&D Committee commenced with a welcome note by, Dr. A.Ramesh, Chairman, R&D Committee. The Coordinator, R&D Committee has extended his cordial welcome to all the members and readout the notes on agenda for discussion.

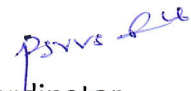
The following points as per the Agenda are discussed and resolutions are adopted.

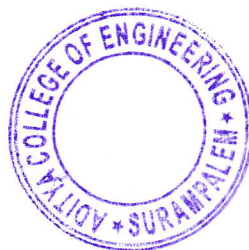
MINUTES AND RESOLUTIONS

1. All the members discussed about SOP and given suggestions regarding SOP.
2. 50 research papers were published in International/National Journals for the academic year 2019-20.
3. 09 research papers were presented in International/National conferences during the academic year 2019-20.
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 are 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 two 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 –III C 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.

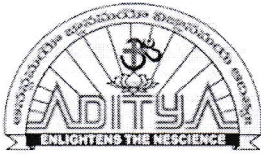
Members attended the meeting on 10th February 2021

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.T.Durga Prasad	HOD - MBA	Member	
5	Prof. 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.B.M.Rahula Bharathi	Associate Professor - ME	Member	
12	Dr. A.Neeraja	Professor - H&S	Member	
13	Mr. Kollu Srikrishna	Student (IV year)	Member	
14	Ms. Kotti Sravya	Student (IV year)	Member	


Coordinator




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Ref: ACOE/R&D/2020-21/02/CIRCULAR

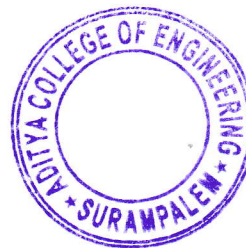
Date: 27.08.2021

CIRCULAR

This is to inform that R&D committee meeting is scheduled on 08.09.2021 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

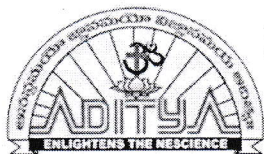
1. To review the research publications made by the faculty during 2020-21 (1st Semester).
2. To review the conduct of different organized events related towards research enhancement during 2020-21 (1st Semester).
3. Any other point with the permission of the chair.



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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/2020-21/02/Minutes

08-09-2021

MINUTES OF RESEARCH & DEVELOPMENT (R&D) COMMITTEE ACADEMIC YEAR 2020-21

Date of meeting	8 th September 2021	Duration	2.30PM to 4.30 PM
Venue	Conference room, First floor, Ramanujan Bhavan		
Reference	ACOE/R&D/2020-21/02/CIRCULAR Dated 27.08.2021		

The R&D meeting of Aditya College of Engineering held on 8th September 2021 with the following 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 2020-21 (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.

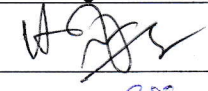
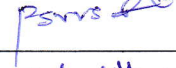
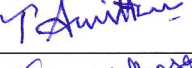
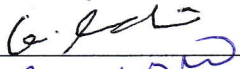
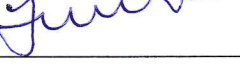
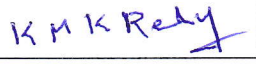
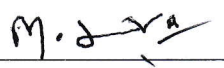
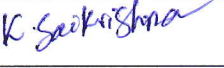
The following points as per the Agenda are discussed and resolutions are adopted.

MINUTES AND RESOLUTIONS

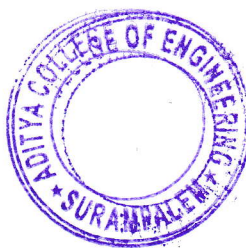
1. The members of the committee discussed regarding number of published papers of each department and noticed that the number of publications are less. The members of the committee proposed to motivate the faculty towards research work and publish more number of papers in reputed journals.
2. The committee has substantiated the organized events related towards research enhancement during 2020-21.

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 08th September 2021

S.No	Name	Designation	Roll	Signature
1	Dr.A.Ramesh	Principal	Chairman	
2	Dr. Pullela SVVS Kumar	Dean A & A	Coordinator	
3	Dr.T.Anil Kumar	HOD - PT	Member	
4	Dr.T.Durga Prasad	HOD - MBA	Member	
5	Prof. 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.B.M.Rahula Bharathi	Associate Professor - ME	Member	
12	Dr. A.Neeraja	Professor - H&S	Member	
13	Mr. Kollu Srikrishna	Student (IV year)	Member	
14	Ms. Kotti Sravya	Student (IV year)	Member	


Coordinator




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JOURNAL PUBLICATIONS BY THE FACULTY 2020-21

S.No	Title of Paper	Name of the author	Department of the teacher	Name of journal	Year of publication	ISBN/ISSN number
1	A Hybrid Advanced Encryption Scheme for a Protected Wireless sensor data in Secure transmission and storage	Dr.G.S.N.Murty	CSE	Psychology and Education Journal	2020-21	1553-6939
2	Getting useful information from Cricket Data Set Using Data Analytics Techniques ODI - Cricket team Performance Analysis using Data Mining Classification Techniques	Dr Udayabhanu N P G Raju	CSE	Turkish Journal of Computer and Mathematics Education	2020-21	684-693
3	Max 30100/30102 Sensor Implementation to Viral Infection Detection Based on Spo2 and Heartbeat pattern	Dr. B. Annapurna	CSE	Annals of the Romanian Society for cell biology	2020-21	1583-6258
4	Diabetic Foot Ulcer Treatment Device Using Peltier and Embedded Electronics	Dr. B. Annapurna	CSE	Journal of Physics	2020-21	1742-6596
5	Solar Energy Augmentation Stratagem Via IOT and Robotics	Dr. B. Annapurna	CSE	Solid State Technology	2020-21	0038111X
6	Building Time Series Prognostic Models to Analyze the Spread of COVID-19 Pandemic	Dr. B. Annapurna	CSE	International Journal of Advanced Science and Technology	2020-21	22076360
7	Coordinate Access System for Live Video Acquisition	Dr. B. Annapurna	CSE	Journal of Physics	2020-21	1742-6596

8	Air Pollution: Effect on Human Health and Live Reporting Using IoT Technology	Dr. B. Annapurna	CSE	Turkish Journal of Physiotherapy and Rehabilitation	2020-21	2651-4451
9	Peltier Radiator: The Smart Heating/Cooling System for Vehicles with IOT Reporting	Dr. B. Annapurna	CSE	Turkish Journal of Physiotherapy and Rehabilitation	2020-21	2651-4451
10	Proposing a reliable method of securing and verifying the credentials of graduates through blockchain	Dr. B. Annapurna	CSE	EURASIP Journal on Information Security	2020-21	2510523X
11	Intelligent signalling system to control traffic in vehicular ad hoc networks R	Dr SVVSR Kumar Pullela	CSE	Indian Journal of Science and Technology	2020-21	0974-6846
12	Enactment Of Deep Learning Methods for Bird Cataloging by Deploying Convolution Neural Networks (CNN)	Dr SVVSR Kumar Pullela	CSE	JOURNAL OF CRITICAL REVIEWS	2020-21	2394-5125
13	Disabled Chronicle Management using Block chain Technology	Dr SVVSR Kumar Pullela	CSE	International Journal of Advanced Science and Technology	2020-21	2005-4238
14	"Model-Order Reduction and Reduced Controller Design Using Routh Approximation and Factor Division Method	Ch. Manoj, Adireddy Ramesh, Manoz Kumar Reddy	EEE	Soft Computing Techniques and Applications, Advances in Intelligent Systems and Computing book series	2020-21	978-981-15-7394-1
15	"Optimization of fuzzy inference system using Genetic Algorithm	M V kumar Reddy, K manoz kumar Reddy, Adireddy Ramesh	EEE	Soft Computing Techniques and Applications, Advances in Intelligent Systems and Computing book series	2020-21	978-981-15-7393-4
16	"Complete Observability Constrained Deployment of PMUs in Power System Network : Using an Upgraded Binary Grey Wolf Optimization Algorithm Approach	Dr M. Ravindra, Dr A. Ramesh	EEE	International Journal of Future Generation and Communication and Networking	2020-21	2233-7857

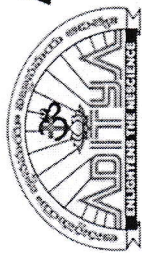
17	Thirteen and Twenty-one level Hybrid H-Bridge Multilevel Inverter Topology for Grid Connected System	Dr A. Ramesh , B.V.S.S. Gopal , M. Ravindra , K.V.S. Ramachandra Murthy	EEE	International Journal of Grid and Distributed Computing	2020-21	2005-4262
18	Fractional-Order Extremum Seeking MPPT for Photovoltaic System	P.S.V.Satish, Y.M. Swamy, C.U.P. Kumar, K.M.K Reddy	EEE	Advances in Electrical Engineering and Renewable Energy, Lecture notes in Electrical	2020-21	978-981-15-7511-2
19	Epoxy Based Wideband Antenna by 1*2 Grid Pattern And Detection of Cancer by Composites	Dr.G. Rama Krishna	ECE	Materialstoday:proceedings	2020-21	2214-7853
20	Adaptive Rag Bull Rider a Modified Self Adaptive Optimization Algorithm For Epileptic Seizure Detection With Deep Stacked Autoencoder Using	Dr.G.Jaffino	ECE	Biomedical Signal Processing & Control	2020-21	1746-8094
21	Wideband Antenna Array For C Band Applications	Kishore Kumar M	ECE	Design Engineering	2020-21	0011-9342
22	Rag-Bull Rider Optimization With Deep Recurrent Neural Network For Epileptic Seizure Detection Using Electroencephalogram	Dr.G.Jaffino	ECE	IET signal processing	2020-21	1751-9683
23	"Wearable transceiver with composite test-beds for breast cancer diagnosis"	Dr.G. Rama Krishna	ECE	Materialstoday:proceedings	2020-21	2214-7853
24	Evaluate and Design the Mni Hexagon – Shaped Monopole Antenna Controller to Minimize Losses in the Unit	Dr. R.Raman, Dr.G.Meenakshi sundaram	ECE	Nuclear Energy Science and Power Generation Technology	2020-21	2325-9809
25	Improved Learning Environment for Mathematics Course Thorough Blend Learning	Dr.G.Meenakshi Sundaram	ECE	Annals of R.S.C.B	2020-21	1583-6258

26	Rag-Bull rider optimization with deep recurrent neural network for epileptic seizure detection using electroencephalogram	Dr.G.Jaffino	ECE	IET signal processing	2020-21	1751-9675
27	Experimental investigation on wear behaviour of bio-waste reinforced fusion fiber composite laminate under various conditions	Dr Anjibabu Merneedi	Mech	Materials Today	2020-21	2214-7853
28	Performance optimization of mahua biodiesel using cetane number improver	Dr N Bhanu Teja	Mech	Materials Today	2020-21	2214-7853
29	Performance analysis of mineral oil based nano-lubricants with sulphur impregnated reduced graphene oxide nanosheets	Mr Satish Perabathula, N Bhanu Teja, P Hari Chandra Prasad, M Sarat Chandra Prasad	Mech	Materials Today	2020-21	2214-7853
30	Investigations of performance and emission characteristics in diesel engine fueled with Hemp oil methyl ester	Dr N Bhanu Teja	Mech	Materials Today	2020-21	2214-7853
31	Production Process Optimization study on the synthesis of Manilkara zapota seed bio-oil and its characterization	Dr N Bhanu Teja	Mech	Biomass Conversion and Biorefinery	2020-21	2190-6823
32	Detailed analysis on sterculia foetida kernel oil as renewable fuel in compression ignition engine	Dr N Bhanu Teja	Mech	Biomass Conversion and Biorefinery	2020-21	2190-6823
33	Biodiesel production from Caulerpa racemose (macroalgae) oil	Dr N Bhanu Teja	Mech	Indian Journal of Geo Marine Sciences	2020-21	2582-6727
34	Structure and Advancement of Suite Capacities of Quantum Circuits	B.Jyothi	H& BS	Journal of Critical Reviews	2020-21	2394-5125

35	Effects of viscous dissipation and magnetohydrodynamics on reeving fluid flow over a deformable porous channel	Dr. A. Neeraja	H& BS	International Journal of Mechanical and Production Engineering Research and Development	2020-21	2249-6980
36	MHD Burger's Nanofluid Stream Due to a Permeable stretching Cylinder with Heat Source/Sink: Buongiorno Model	Dr. A. Neeraja	H& BS	Solid State Technology	2020-21	0038- 111X
37	The Influence of Magnetohydrodynamics Casson Liquid Stream Past an Exponentially Accelerated Vertical Plate through Porous Medium	Dr. A. Neeraja	H& BS	Solid State Technology	2020-21	0038- 111X
38	Magneto hydrodynamics Boundary Layer Flow of Powell-Eyring Liquid over an Exponentially Stretching Sheet	Dr. A. Neeraja	H& BS	Solid State Technology	2020-21	0038- 111X
39	Exact Solution for the Hydrodynamic Flow of Jeffrey Fluid Through a Porous Medium Past an Infinite Vertical Plate	Dr. A. Neeraja	H& BS	Journal of Xidian University	2020-21	1001-2400
40	Dielectric and Magnetic Properties of Polyaniline-Blended Y-Type Ba ₂ Ni ₂ Fe ₁₂ O ₂₂ Hexaferrite Composites	Dr. G. Packiaraj	H& BS	Journal of Electronic Materials	2020-21	0361-5235
41	Assay Method Development and Validation for Azilsartan using High Performance Liquid Chromatography	O.S.S Chandana	H& BS	International Journal for Innovative Research in Multidisciplinary Field	2020-21	2455-0620


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CONFERENCE PUBLICATIONS BY THE FACULTY 2020-21

Sl. No.	Name of the teacher	Title of the paper	Title of the proceedings of the conference	Name of the conference	National / international	Year of publication
1	Dr. M Ravindra	A Sensivity Based Approach For Optimal Allocation Of OUPFC Under Single Line Contingencies	Lecture Notes in Electrical Engineering	International Conference on Micro-Electronics, Electromagnetics and Telecommunications	International	2020-21
2	Dr A.Ramesh	Model-Order Reduction And Reduced Controller Design Using Routh Approximation And Factor Division Method	Soft Computing Techniques and Applications	International Conference on Computing and Communication (IC3 2020)	International	2020-21
3	Dr A.Ramesh	Optimization Of Fuzzy Inference System Using Genetic Algorithm	Soft Computing Techniques and Applications	International Conference on Computing and Communication (IC3 2020)	International	2020-21
4	K.Manoz Kumar Reddy	Fractional-Order Extremum Seeking MPPT For Photovoltaic System	Lecture Notes in Electrical Engineering	International Conference on Emerging Trends and Advances in Electrical Engineering and Renewable Energy	International	2020-21

5	N. SRAVANI	Successive Approximation Compressor For Efficient FIR Filters In C-MOS VLSI Design: Review	IEEE XPLORE	6 th International Conference for Convergence in Technology (I2CT-2021)	International	2020-21
6	P. Siva Nagendhra	Implementation Of A MIMO Space-Time Coded Wireless Communication System	IEEE XPLORE	2nd International Conference for Emerging Technology (INCET 2021)	International	2020-21
7	G. Jaffino	FPGA Implementation Of Epileptic Seizure Detection Using ELM Classifier	IEEE XPLORE	International Conference on Biosignals, Images and Instrumentation	International	2020-21
8	G. Jaffino	Grey Wolf Optimization With Deep Recurrent Neural Network For Epileptic Seizure Detection In EEG Signals	IEEE XPLORE	International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies	International	2020-21
9	Rajesh Babu Nemani	A Review On FPGA Based Traffic Sign Detection	IEEE XPLORE	6 th International Conference for Convergence in Technology (I2CT-2021)	International	2020-21
10	G. S. N. Murthy	A Fact-Based Liver Disease Prediction By Enforcing Machine Learning Algorithms	Advances in Intelligent Systems and Computing	International Conference on Computer science and Information Technologies	International	2020-21

11	V. Balasankar	Empirical Statistical Analysis And Cluster Studies On Socio-Economic Status (SES) Dataset	Materials Science and Engineering	Annual International Conference on Emerging Research Areas on "COMPUTING & COMMUNICATION SYSTEMS FOR A FOURTH INDUSTRIAL Revolution AICERA 2020	International	2020-21
12	T.Veeraraju	Predicting Student Admissions Rate Into University Using Machine Learning Methods	Machine Intelligence and Soft Computing proceedings	International Conference on Machine Intelligence and Smart Computing ICMISC 2020	International	2020-21
13	Dr.B.Annapurna	Diabetic Foot Ulcer Treatment Device Using Peltier And Embedded Electronics	Journal of Physics: Conference	International Conference on Computational Physics in Emerging Technologies ICCPET:2020	International	2020-21
14	Dr.B. Annapurna	Coordinate Access System For Live Video Acquisition	Journal of Physics: Conference	International Conference on Computational Physics in Emerging Technologies ICCPET:2020	International	2020-21
15	Dr.Udayabhanu	A Deep Analysis Of Higher Education Cognitive And Psychological Learning Impact During Covid 19 Pandemic	Lecture Notes in Networks and Systems	International Conference On Recent Trends In Computing ICRTC 2021	International	2020-21

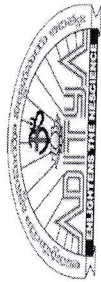
16	B.Jyothi	Synthesis And Optimization Of 3D Antenna Arrays	Jeppiaar journal conference proceedings	International Conference on Recent Innovation in Science, Engineering and Technology ICRiset	International	2020-21
17	B.Jyothi	Beam Pattern And Optimization Of Smart Antennas In Communication	International Journal of Intelligent systems design and computing	International conference on Recent Trends on Engineering and Technology ICRtet	International	2020-21
18	B.Raghava Maheedhar	Review On Index And Strength Properties Of Stabilized Soils	AIJR Abstracts series	National Conference On Sustainable Innovative Trends In Civil Engineering	National	2020-21
19	D. SRAVANI	Correlation Analysis Of Soil Sediments In Industrial Area Of East Godavari Region	AIJR Abstracts series	National conference on Biological, Biochemical, Biomedical, Bioenergy and Environmental Biotechnology NCBEBT-2021	National	2020-21
20	Dr Y K S SUBBA RAO	Analysis Of Vibrations For Laminated Composites Based On Finite Elements	Lecture notes in Mechanical Engineering	National Conference on Advances In Modeling, Manufacturing and material Engineering NCAMME-20	National	2020-21

21	Dr Y K S SUBBA RAO	Wear Behavior On Hybrid Composite Material	Lecture notes in Mechanical Engineering	National Conference on Advances In Modeling, Manufacturing and material Engineering NCAMMME-20	National	2020-21
22	Dr DVSSSV Prasad	Prediction Of Prevalence Of COVID-19 In India Using Time Series Analysis	Marian Journal Conference proceedings	International Conference on Emerging Trends in Management	International	2020-21
23	Dr DVSSSV Prasad	Teachers' Perception About Online Teaching-Learning	International Research Journal on Advanced Science Hub	1st International Conference on Social work, Science and Technology. ICSST Online-2021	International	2020-21
24	Mr M Prem Kumar Reddy	Performance Monitoring And Control Of An Intelligent Al2O3 Nanofluid Jet Impingement MMC Heat Sink Using lot	American Institute of Physics Conference Proceedings	International conference on Manufacturing, Material Science and Engineering ICMMSSE - 2021	International	2020-21
25	Mr M Prem Kumar Reddy	Study On Agglomeration In A Microchannels Heat Sink With Al2O3 & CUO Nanofluid	American Institute of Physics Conference Proceedings	International conference on Manufacturing, Material Science and Engineering ICMMSSE - 2021	International	2020-21
26	TALARI SRINU	CFD Analysis On Various Cross Sectioned Fins To Determine The Heat Transfer Rate	American Institute of Physics Conference Proceedings	International Conference on Advancements in Aeromechanical Materials for Manufacturing ICAAMM 2021	International	2020-21

27	TALARI SRINU	CFD Analysis Of IC Engine Intake	American Institute of Physics Conference Proceedings	International Conference on Advancements in Aeromechanical Materials for Manufacturing ICAAMM 2022	International	2020-21
28	TALARI SRINU	Design And Analysis Of Vertical Axis Wind Turbine Using CFD	American Institute of Physics Conference Proceedings	International Conference on Advancements in Aeromechanical Materials for Manufacturing ICAAMM 2023	International	2020-21
29	TALARI SRINU	Mechanical Characterization Of Kenaf Fibre Reinforced Epoxy Composites With Pistachio Shell And Seashell Powder As Filler Materials	American Institute of Physics Conference Proceedings	International Conference on Advancements in Aeromechanical Materials for Manufacturing ICAAMM 2024	International	2020-21
30	Dr DVSSSV Prasad	Projections Of Straight Lines Incline To Both Reference Planes Using Circle Diagram	Lecture notes in Mechanical Engineering	International Conference on Recent Advancements in Mechanical Engineering ICRAME-2021	International	2020-21
31	Dr DVSSSV Prasad	Inversions Of Kinematic Chain By Link Adjacency Product	Lecture notes in Mechanical Engineering	Energy, Material Sciences and Mechanical Engineering EMSME-2020	International	2020-21




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Grants received from Government and non Governmental agencies for the research projects, endowments, Chairs in the institution (INR in Lakhs)

A.Y.2020-2021

Sl.No.	Name of the Project/ Endowments, Chairs	Name of the Principal Investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the Project	Name of the Funding Agency	Type(Government/Non Government)
1	Analysis of Combustion performance and emissions of VCR engine fuelled with Tamanu oil, for various blends.	Dr. YKS SUBBARAO	ME	2021	0.45	2 months	Arami agro oil industries	Non -Government
2	Assessment of smart grid power control units	Dr. M. Ravindra	EEE	2021	0.4	1 month	Arami agro oil industries	Non -Government
3	Experimental investigation on flexible pavements using crushed aggregate	Mr.K.Jaya rao	CE	2021	0.3	1 month	Maa constructions	Non -Government
4	Automatic Number Plate Recognition System for Vehicle Identification	G. Jaffino	ECE	2021	0.63	1 month	VISAKA DAIRY	Non-Government
5	Website design for Brisk solutions	Dr.B.Annapurna	CSE	2021	1.25	2 months	Brisk Solutions	Non-Government



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