# Chadalawada Ramanamma Engineering College (Autonomous)

**Policy Manual for** 

Research & Development (R&D)

#### Research & Development Center

#### 1. Chronological Perspective:

Chadalawada Ramanamma Engineering College (CREC) (Autonomous) is established in 2004 with a vision to become the choices institute of technology and a hub to academic, industrial research and development. The main objective of CREC (A) is to serve the global engineering community through dissemination of knowledge on recent advances in different fields of engineering, in association with basic science experts, through its several departments. In the early years CREC (A) saw an emphasis on under graduate teaching. After the establishment of Post Graduate (PG) programmes in the year 2006, the college focuses on research activities along with the teaching and learning activities. To enhance the research activities, the Institute has established Research & Development Cell (RDC) in the year 2008. In the early years of establishment of RDC several papers were published in various international journals and conferences.

In order to nurture the research culture, the Institute has established excellent laboratory facilities for PG students. The Institute encourages the innovative ideas of students and faculty by providing required infrastructure and financial support, if any. To encourage the UG, PG and Research scholars, the Institute is providing grant for their project works. In addition to this the Institute provides seed grant for faculty members to take up In-House Projects.

Also, the Institute encourages faculty to undertake sponsored research projects with a commitment to serve the society. Initially, the research proposals were sent to AICTE, UGC, DST FIST, SERB, ISRO, etc for sponsored projects. In this connection, various funded projects were sanctioned from UGC and FIST of DST.

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#### 2. Frame work of R&D Cell:

The Research & Development Cell (R&D) is constituted by the following members:

1. Dr. A. Rama Mohan Reddy, Professor of CSE	Dean
2. Dr. P. Ramesh Kumar, Professor, Mech	Member
3. Dr. K V R B Prasad, Professor of EEE	Member
4. Dr. N. Vikram, Assoc. Professor of CSE	Member
5. Dr. P. Krishna Murthy Assoc. Professor of ECE	Member
6. Dr. Ch. Santhaiah, Assoc. Professor of CSE	Member
7. Dr. K. VijayaBhaskar, Assoc. Professor of CAD	Member
8. Dr. G. Anupama, Assoc, Professor of DMS	Member
9. Dr. K. Saritha, Asst. Professor of Chemistry, H&BS	Member

### 3. Objectives:

- To create research awareness among the faculty and students by promoting research in newly emerging, challenging and frontier areas of Engineering, Technology, Science and Humanities.
- To enhance team work between researchers for multidisciplinary research across the departments.
- To create the awareness among the faculty members about various funding agencies such as Government, Private, NGOs, etc., and how to send the proposals for the same.

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 To establish strategic partnerships and developing funding solutions with industries/research laboratories (centers) / funding agencies for progressive and collaborative research activities.

 To promote the projects and research activities to cater the needs of local community and local industries.

 To enhance the research awareness by conducting various national level and international level workshops, conferences, guest lectures, panel discussions and field trips.

 To improve the quality of publications, research proposals and patents inorder to establish the college as an R&D institution.

To protect and commercialize the Institute's Intellectual Property Rights
 (IPR) by following the IPR norms and regulations.

 To improve the internships, innovative technologies, startups and entrepreneurship activities by collaborating with various reputed academic institutions and industries across the globe.

 To enhance the student/faculty exchange programs and joint research by collaborating with foreign universities.

 To monitor the status of research scholars, mobilization of research funds, performance of individual researcher and departments by conducting regular review meetings.

#### 4. Functions of R&D Cell:

√ The R & D cell committee shall meet at least Two months once in a semester. The Dean R&D Cell may decide for any additional meetings, whenever it is necessary.

✓ The R&D cell submit the progress of research scholars and research

Chadalawada Ramanamma Engineering College (AUTONOMOUS) activities of the college to the affiliating university periodically or as and when called for by the university.

- √ The R&D cell shall submit the report on various activities of the cell to
  the Governing Council and IQAC annually.
- ✓ To facilitate timely auditing and submission of utilization certificates to the various sponsored agencies /research organizations.
- ✓ To undertake sponsored research projects activities offered by various Government agencies such as AICTE, UGC, DST, DRDO, ISRO, etc., and industries.
- √ To assist for applying and getting funds for conducting international conferences/seminars/Workshops/FDPs from various funding agencies.
- ✓ To assist the faculty and students for applying and getting travel grants to attend various events across the globe.
- ✓ Toconductworkshops/guestlectures/outreachprograms/webinarsonreg ularbasis to promote industry-institute interaction, research activities, industrial internships, faculty and student exchange activities, etc.
- ✓ To encourage the faculty members in publishing a greater number of research papers in reputed journals, which improves here search profile of the institution.
- ✓ To ink and sign functional MoUs with Institutes of National importance and industries for collaborative research activities, strengthening the curriculum, visiting professors and consultancy works. This will strengthen the research profile of individual faculty members, departments and the institution.

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#### 5. Incentives:

#### Incentives to the Faculty:

Faculty members will be offered a cash incentive of 2.5% of the sanctioned grant for the externally funded project which can be claimed after successful completion of the project. This cash incentive will be paid from the management funds but not from the funds sanctioned to the project. If more than one faculty member is involved in carrying out the project, the incentive amount shall be shared equally among them.

The details of the incentives for publishing papers in various journals/conference/book chapters, etc., are given below:

S. No	Type of Indexing	Incentives	
1.	Science Citation Index (SCI)/Science Citation Index Expanded (SCIE) Journals (First or Second or Third Author eligible)	Rs. 30,000/-	
2.	Scopus /Emerging Sources Citation Index (ESCI) Journals with reviewer comments or Q1, Q2 and Q3 Journal categories (First or Second or Third Author eligible)	Rs. 25,000/-	
3.	Web of Science or Scopus/Emerging Sources Citation Index (ESCI) Journals without reviewer comments or below Q1 Journal category (First or Second Author eligible)	Rs. 20,000/-	
4.	Proceedings in IEEE / ASME / ASCE / Springer /Elsevier/Scopus Indexed Conference or Book Chapters and	Rs.10,000/-	



	organized by reputed institutions /organizations (IISc/IIT/NIT,etc.) (First or Second Author eligible)	
5.	Attending International level Conferences/Seminars/Workshops/FDPs organized by reputed institutions/organizations (IISc/IIT/NIT, etc.)	Up to a maximum of Rs.5000/- towardsRegistrationfeeand maximumofRs.4000/- Towards TA/DA.
6.	International level Conference Workshop organized at outside India	(i) No financial support for the Mereparticipation.  (ii) For presenting a paper the financial support will be given to cover TA, DA & Registration Fee limited to Rs.50,000/  (iii) For presenting a paper in Online mode, the financial support will be given to cover Registration Fee only and is limited to Rs.10000/
7.	Faculty with more than 100 citations (cumulative of all the papers) in a year. The citations shall be considered for those publications with author affiliation belonging to Chadalawada Ramanamma Engineering	



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	College (Autonomous).	
8.	Publication of work in books or book chapters (minimum of 4 pages)	Rs.2000/-
9.	Publication of Patents (should be on the name of the college, i.e., Chadalawada Ramanamma Engineering College (Autonomous)).  The applicants should be either first or second inventor position only.	Rs. 5000/- for International Rs.3000/- for National

#### **General Information:**

- Only those papers, where the author's affiliation belongs to the institute i.e.
   Chadalawada Ramanamma Engineering College (Autonomous)" will be
   eligible for incentive. The authors should mention the name of the college
   clearly as Chadalawada Ramanamma Engineering College (Autonomous)"
   instead of CREC (A). Otherwise, the incentive amount will not be
   sanctioned.
- 2. The faculty members, who are pursuing their PhD here after should submit their research papers to the conferences/Journals with the following affiliations: Research Scholar and Supervisor.
- Any claim for monetary incentive for publishing a research paper must be accompanied by two hard copies of the published paper along with the indexing proof and viewer comments if available.
- 4. Any claim for attending a workshop/conference/FDP must be accompanied by two hard copies of proofs of registration fee, travel

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5. If the first author is from CREC (A), then the author will be entitled for full cash incentive.

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6. If the second author is from CREC (A), then the author will be eligible for

only 50% of cash incentive.

7. If the third author is from CREC (A), then the author will be eligible for

only 25% of cash incentive.

II. Incentives to the Students:

The college pays one way travelling fare for the students, who won the

prizes in various conferences/workshops/symposiums. Inorder to encourage the

students towards the research activities, the college is providing the funding for the

fabrication/hardware projects.

6. In-House Project Scheme:

The college encourages the faculty members to get involved in Research and

Development activities by providing initial funding for research projects under In-

House Project Scheme. The interested faculty members of CREC (A) can avail this

initial funding facility. By availing this scheme, the faculty members are expected to

publish good number of research papers in peer reviewed National and

International Journals and Conference Proceedings. Also, faculty members are

encouraged to attend trainings, FDPs in thrust areas to be a breast with the latest

developments.

**Guidelines:** 

In-house project scheme is initiated by inviting proposals from the faculty of

all departments. In this regard, a circular from the principal is issued

everyone on-behalf of R&D Cell of the college.

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 Faculty members can apply individually or as a team, with a maximum of three members including the Principal Investigator.

 R&D Cell provides in-house project proposal format on the website of the college.

 All the proposals received are scrutinized by Research Review Committee constituted by the R&D Cell and Principal of the college.

 Based on the merits of the proposals, the committee recommends for provisional acceptance of the proposals.

 The Principal and R&D Cell committee members will select the final in-house project proposals based on there commendations of the Department Research Committee (DRC).

 Maximum duration of the In-House Project is for TWO years from the sanctioned date of project.

At least one full length publication in SCI/SCIE/Scopus/ESCI indexed
Journal, related to the sanctioned in-house project is mandatory. The team
members can also opt for patent(s) filing depending on the feasibility and
applicability of the work, if they wish in place of journal publication (s).

 R&D Cell monitors the progress of in-house projects through periodic reviews.

 After completion of the project, the R&D Cell provides necessary help and motivates the faculty to submit research proposals to the major funding agencies, such as AICTE, DST, UGC and other funding agencies for further analysis and deeper/advanced research extension activities.

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7. Code of Ethics for Research:

Chadalawada Ramanamma Engineering College (Autonomous), Tirupati, is a

symbol for "Conviction, Ethics, and Honest". CREC (A) follows faith and ethics

everywhere be it in the functioning of the college, academics, service to the society,

support to the budding entrepreneurs, and most importantly in scientific research.

Every individual i.e., faculty, research scholars, project staff, students are expected

to strictly follows the code of ethics of research, set by CREC (A). The following are

the ethical principles that are made to follow by every individual of the college,

while undertaking the research:

Duty to the society: Researcher and his/her research must contribute to the

welfare of society.

Beneficence: Researchers should have the welfare of the research participant in

mind as a goal and make every effort for the benefits of the research to prevail over

the risks.

Conflict of Interest: Researchers should minimize financial and other influences on

their research and on research participants that could bias research results. Conflict

of interest is more frequently directed at the researcher, but it may also involve the

research participants if they are provided with a monetary or non-monetary

encouragement to take part.

Informed Consent: All researchers must voluntarily agree to participate in

research, without persuasion from financial gain or other intimidation, and their

agreement must include an understanding of the research and the underlying risks

in it. When participants are unable to consent or when vulnerable groups are

involved in research, specific actions must be taken by researchers and their

institutions to protect the partakers.

Integrity: Researchers should demonstrate honesty and truthfulness. They should

not fabricate data, falsify results, or omit relevant data. They should report findings

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fully, minimize or eliminate bias in their methods, and disclose underlying

assumptions.

Non-discrimination: Researchers should minimize attempts to reduce the benefits

of research on specific groups and to deny benefits from other groups.

Non-exploitation: Researchers should not exploit or take unfair advantage of

research participants. Academy's competitive"publish-or-perish" mindset can be a

formula for trouble when it comes to who gets credit for authorship. The best way

to avoid disagreements about who should get credit and in what order is to talk

about these issues at the beginning of a working relationship, even though many

people often feel uncomfortable about such topics.

Privacy and Confidentiality:

Privacy: Research participants have the right to control access to their personal

information. Participants may control how others obtain their information.

Confidentiality: Researchers will protect the private information provided by

participants from release. Confidentiality is an extension of the concept of privacy;

it refers to the participant's understanding of, and agreement to, the ways

identifiable information will be stored and shared.

Professional Competence: Researchers should engage only in work that they are

qualified to perform, while also participating in training and betterment programs

with the intent of improving their skill sets. This concept includes how researchers

choose research methods, statistical methods, and sample sizes that are

appropriate and would not cause misleading results.

Professional Discipline: Researchers should engage in ethical research and help

other researchers engage in ethical research by propagating ethical behaviors

through practice, publishing and communicating, mentoring and teaching, and

other activities.

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**Note:** Research participant refers to someone with an active role participating in research.

#### 8. Ethics Committee:

#### a) Composition:

The Ethics Committee is appointed by the Academic Council up on nomination by the principal. The Committee shall be composed of the following members:

- Principal- Chairman
- In-charge of Research & Development Cell- Convener
- Heads of all Departments Members
- Convener of Institution Innovation Cell- Member
- Two senior faculty members nominated by the principal Members

In addition, the Legal advisor and the Chairman of CREC (A) will acts as advisor(s) to the committee. The members' mandate is for three years – renewable. In case of conflict of interests, members of the Ethics Committee shall be temporarily replaced by substitutes nominated by the Principal.

## b) Responsibilities:

- To provide advice and guidance to the CREC (A) faculty members, research scholars on all matters pertaining to academic research ethics.
- To advise the Academic Council on compliance with the 'Code of Ethics in academic research of the various academic activities at the CREC (A).
- To provide guidance and academic support to students on ethical issues in respect of teaching, research and other academic activities. Entirely

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voluntary basis, researchers may ask the Ethics Committee for consultation one ethical aspects of their research.

- To confirm to external parties on behalf of the CREC (A) compliance with ethical standards in respect of research projects undertaken.
- ❖ To advise the Academic Council of any policies that may be required in relation to accepting funds from particular funding agencies, both public and private.
- To act as an investigative/consultative body for any disputed matter concerning research ethics and conduct.

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# CHADALAWADA RAMANAMMA ENGINEERING COLLEGE

(AUTONOMOUS)

Approved by AICTE, New Delhi & Affiliated to JNTUA, Anantapur, A.P. Accredited by NAAC with "A" Grade, An ISO 9001 - 2015 Certified Institution

CREC (A) / Appointment / R & D Cell / 22

Date: 27-09-2022

## PROCEEDINGS OF THE PRINCIPAL

Sub :- CREC (A) - Research and Development Cell - Constituted - Reg.

The Research & Development (R&D) Cell is constituted with the following members.

## RESEARCH AND DEVELOPMENT CELL

S. No.	Name	Designation	Department	Position
1.	Dr. A. Rama Mohan Reddy	Professor & Dean	CSE	Convener
2.	Dr. P. Ramesh Kumar	Professor	MECH	Member
3.	Dr. K.V.R.B. Prasad	Professor	EEE	Member
4.	Dr. N. Vikram	Assoc. Professor	CSE	Member
5.	Dr. P. Krishna Murthy	Assoc. Professor	ECE	Member
6.	Dr. CH. Santaiah	Assoc. Professor	CSE	Member
7.	Dr. K. Vijaya Bhaskar	Assoc. Professor	CAD	Member
8.	Dr. G. Anupama	Assoc. Professor	DMS	Member
9.	Dr. K. Saritha	Asst. Professor	H&BS	Member

The R&D Cell is required to sensitize faculty members on various funding agencies/opportunities, guide the faculty members for research publications and to encourage students for paper presentations in student conferences/seminars.

Copy to:

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1. Deans / All the Heads of the Departments for information 2. All the above members for information and necessary action

3. IOAC

4. File

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