

Ref. No.: GIET/R&D Cell/2023

Date: February 24, 2023

Sub: Constitution of *College Research Advisory Committee*.

Based on the discussions in the HoDs meeting held on Dec.12, 2022 regarding induction of external experts from reputed R&D organizations and industries to seek their advice on: (a) taking up research in new and upcoming areas, and (b) future directions, a Research Advisory Committee is formed with following members. It may be noted that the number of internal and external members ratio is chosen in line with the requirement of *Scientific and Industrial Research Organization* (SIRO) –a wing of DST, Gov. of India that the external members - to be more than 40% of the total number.

Name	Designation	Email Address	Contact No.
Internal Members			
Dr. P.M.M.S. Sarma	Principal (Chairman)	principal@giet.ac.in	96760-15566
Dr. T.V. Prasad	Director, QA, GIET Institutions	tvprasad@giet.ac.in	81423-66266
Dr. N. Leelavathy	Vice Principal (Academics)	viceprincipalacad@giet.ac.in	94902-90622
Dr. B. Sujatha	Professor and HoD, CSE	hod.cse@giet.ac.in	88866-68242
Dr. R.Tamil Kodi	Professor and HoD, AIML-CS & MCA	hod.aiml@giet.ac.in	98663-83601
Dr. B. Srinivas Raja	Professor and HoD, ECE	hod.ece@giet.ac.in	98492-19492
Dr. D. Ravi Kishore	Professor and HoD, EEE	hod.eee@giet.ac.in	88866-68239
Dr. D. Santha Rao	Professor and HoD, Mech	hod.mech@giet.ac.in	88866-68240
Dr. D. Venkateswarlu	Professor and HoD, Civil	hod.civil@giet.ac.in	88866-68238
Dr. M. Sreenivasa Rao	Dean, Freshman Engineering	dean.fed@giet.ac.in	94930-72035
Dr. R.S. Raju	Director, R&D (Convener)	director.rnd@giet.ac.in	93981-95696
Dr. T. Jayananda Kumar	Prof ME and Dean, AA (Co-convener)	deanaa@giet.ac.in	82470-04800
External Expert Members			
Dr. G.S.N. Raju	Former Vice Chancellor, Andhra University Presently Vice-Chancellor of Centurion University, Orissa	vc@cutmap.ac.in	94407-77793
Dr. Sudhir Kamath	Former Director, MTRDC (DRDO) and Dir. General, Min. of Defense, New Delhi	sukamath03@gmail.com	94485-01655
Dr. S.U.M. Reddy	Ex-Director, MTRDC (DRDO), Bengaluru	sumreddyap@yahoo.com	98458-14965
Dr. D. Radha Prasada Raju	Former Scientist, Dept of Science & Technology (DST)	drpraju1955@gmail.com prasadarajudr@yahoo.com	7093537671
Dr. M. Ravi	Sci 'F' & Chief Executive Officer, <i>Semiconductor Technology and Applied Research Centre</i> (A unit of SITAR -Govt. of India), Bengaluru	drmeduriravi@gmail.com mraviceo.sitar@gov.in	94498-35362 080-25651712
Dr. U.S.N. Raju	Professor, CSE Dept., N.I.T., Warangal	usnraju@nitw.ac.in	9440149146
Dr. S. Vijay Kumar	Scientist-F, National Institute of Hydrology, Kakinada	vijaykumar.nihr@gov.in	9866221265
Dr. B. Ravi Kumar	Professor, EEE Dept., IITH, Hyderabad	ravikumar@iith.ac.in	9448848013
Mr. P.V.K. Reddy	VEM Technologies Pvt. Ltd., Hyderabad	pvkreddy@vemtechnologies.com	97031-30789



(Signature of Head of the Institution)

PRINCIPAL

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GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS)

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Minutes of College Research Advisory Committee meeting (online),
held on March 13, 2023 in Chairman's Chamber

Members present:

External Members

Dr. G.S.N. Raju	Former Vice Chancellor, Andhra Univ., Presently VC, Centurion University, Orissa
Dr. Sudhir Kamath	Former Director, MTRDC (DRDO) and Director General, Min. of Defense, New Delhi
Dr. S.U.M. Reddy	Ex-Director, MTRDC (DRDO), Bengaluru
Dr. D. Radha Prasada Raju	Former Scientist, Dept of Science & Technology (DST)
Dr. M. Ravi #	Sci 'F' & Chief Executive Officer, SITAR (Govt. of India), Bengaluru
Dr. U.S.N. Raju	Professor, CSE Dept., N.I.T., Warangal
Dr. S. Vijay Kumar	Scientist-F, National Institute of Hydrology, Kakinada
Dr. B. Ravi Kumar	Professor, EEE Dept., IITH, Hyderabad
Mr. P.V.K. Reddy	VEM Technologies Pvt. Ltd., Hyderabad

could not be present

Internal Members

Dr. P.M.M.S. Sarma	Principal (Chairman)
Dr. T.V. Prasad	Director, QA, GIET Institutions
Dr. N. Leelavathy	Vice Principal (Academics)
Dr. M. Sreenivasa Rao	Dean, Freshman Engineering
Dr. B. Sujatha	Professor and HoD, CSE
Dr. R.Tamil Kodi	Prof. and HoD, AIML-CS & MCA
Dr. B. Srinivas Raja	Professor and HoD, ECE
Dr. D. Ravi Kishore	Professor and HoD, EEE
Dr. D. Santha Rao	Professor and HoD, Mech
Dr. D. Venkateswarlu	Professor and HoD, Civil
Dr. R.S. Raju	Director, R&D (Convener)
Dr. T. Jayananda Kumar	Prof ME and Dean, AA (Co-convener)

Agenda:

a) Review of Research:

- Publication of papers, patents, books;
- R&D project proposals submitted so far and their status;
- MoUs with academic Industries /Universities/ R&D organizations in India and abroad

b) Future directions: Identification of thrust areas of research; and strategies related to R&D

c) R&D Road map for the coming decade (2023-2032).

1. Opening remarks by Principal: He welcomed all the members and expressed his strong desire to strengthen R&D activities in the college for which needful advice, support and necessary inputs would be needed from the experts. He requested the external members to give their advices and suggestions which would help in framing our future R&D activities. He handed over the session to Dr, Raju to present the progress (of the past three years).

2. Presentation by Dr RS Raju: His presentation included: (a) appraising the agenda, (b) college profile, (c) publication of papers, patents and books over the past three years, (d) thrust areas, (e) MoUs with academic/R&D institutions and industries, (f) R&D proposals submitted, (g) roadmap for the coming decade and (h) expectations from external experts. He mentioned that

substantial number of eminent experts are chosen in this committee in order to receive valuable directions/suggestions/advices to enable framing a roadmap for the coming decade.

After the presentation, the floor was left for deliberations from the external members.

Minutes of meeting:

1. Dr. D. Radha Prasada Raju:
 - a) Urged that augmentation of faculty members with Ph.D qualification is necessary for a quality research.
 - b) Suggested that the college has to provide seed money to take up research activities.
 - c) Research work must start in the area where the department/faculty has already done some potential research.
 - d) Connect with external agencies/ experts
2. Dr. G.S.N. Raju: He advised:
 - a) to maintain 70% of the faculty members to possess Doctoral qualifications
 - b) for NEP2020 upgrade skills of the student fraternity for better employment opportunities and for all round development and excellence in research activities which is need of the hour and for internal funding to sustain/support the research activities in the thrust areas
 - c) to encourage students to take up start-ups
 - d) skill inclusiveness in the new curriculum design
 - e) writing and practicing programming codes of at least 500 lines would be of immense value in gaining confidence with the software to fetch a good job.
3. Dr. Sudhir Kamat:
 - a) Advised that broad areas should be narrowed down for achieving good research outcome
 - b) Pinpointed that good command over mathematical background is required for *cryptography*
 - c) Appraised various research potential areas in all engineering domains like focusing on 3D printing using metals, MEMS along with AI/ML & IOT, Electronic green technology vehicles, etc. and their potential applications for consultancy activities.
 - d) Emphasized on start-ups and incubation centers
 - e) Invite experts to college as on rolls for a short period and work with faculty & students towards submitting research proposals
 - f) Idea initiated to have an MoU with DRDO and take up directed research in combination with start-ups
4. Dr. S.U.M. Reddy:
 - a) Appreciated steps taken by the college authorities to get a good number publications
 - b) Strongly emphasized the need for running M.Tech. program in *Microwave Engineering* which has an immense potential in industrial and agrarian domains which are yet to be explored in India.
 - c) Reiterated that most of the microwave applications in defense sector are already tapped to optimum levels and look for untapped areas.
5. Dr. U.S.N. Raju:
 - a) Urged that the faculty members must concentrate on research work
 - b) MoUs with premier institutes and tie ups with NITs are useful for skill development of students for better placements
 - c) Improve student paper publications
6. Dr. S. Vijay Kumar:
 - a) Mentioned the critical need of good library facilities, periodically publish newsletter
 - b) Need to explore national level funding agencies for consultancy work,

- c) Inculcate multidisciplinary activities among the students and faculty so that fruitful outcome will be possible.

7. Dr. B. Ravi Kumar advised to:

- a) increase the number of tie-ups with reputed academic institutes
- b) Alumni interactions in place for good research collaborations
- c) more subscription to standard journals and interdisciplinary activities
- d) invite distinguished faculty to parent institute for proper inputs needed for quality research
- e) reduce paper work to professors and HoD's to concentrate more on research
- f) more MoUs and interactions for best results
- g) block grant would be provided to each department for good research output
- h) must have professional memberships like IEEE, IEI, etc.
- i) UG & PG students must give a series of presentations on recent research works.

8. Mr PVK Reddy:

- a) Identify the challenges and also whether the institute will be categorized as *research institute*, *product development institute* or *learning institute* (it is up to us to decide)
- b) Online technologies to bring to improve high level skill sets of student and faculty community and collaboration with outside research laboratories will strengthen the R& D activities.
- c) Online lectures can be used to teach recent technologies
- d) Always there is a need of System Design and similar training, which is the need of the hour.
- e) Focus should be on multi-disciplinary activities / projects

Finally, Dr. N. Leelavathy briefed the discussions and highlighted the deliberations by each external member. A vote of thanks was also casted for the external members for sparing their valuable time to participate in the meeting and giving their valuable advices/suggestions/guidelines for research.

The minutes are issued with the approval of Chairman.

(Dr RS Raju)
Director, R&D

Copy to: 1. External Expert members

2. Concerned persons / Management members