



M.KUMARASAMY
COLLEGE OF ENGINEERING
NAAC Accredited Autonomous Institution
Approved by AICTE & Affiliated to Anna University
ISO 9001:2015 & ISO 14001:2015 Certified Institution
Thalavapalayam, Karur-639 113, Tamilnadu.



Lr. No. 5/ R&D (Head) /2022

14.09.2022

CIRCULAR

The 5th Meeting of Research Advisory Board (RAB) is Scheduled to be convened as below, to discuss the given agenda items.

Date: 17.09.2022	Time: 10.00 AM
Day: Saturday	Venue: Online (Google meet)
Meeting Link	https://meet.google.com/njs-sdha-vpm

The Members are requested to attend the same and offer their valuable suggestions.

Agenda items:

1. Academic Year 2021-22 Research Activities and completion details.
2. Action Plan for the Academic Year 2022-23 Research Activities.
3. Suggestions from RAB members to improve R&D Activities.

List of Members

S. No	Name	Details
1	Dr.S.Kuppusamy	Executive Director, MKCE, Karur.
2	Dr.N.Ramesh Babu	Principal, MKCE, Karur.
3	Dr.S.Chidambaram	Senior Scientist, NDT & Metallurgy Group, Central Mechanical Engineering Research Institute, CSIR, Government of India, Durgapur, West Bengal.
4	Dr.D.Madhan Mohan	R&D Team Manager, GPQS & Semiconductors, Hitachi ABB Power Grids, Chennai.
5	Dr.E.R.Rajkumar	Program Manager (AI in Chip Design), Apex Semiconductor India, Bangalore.
6	Dr.R.Mohanasundaram	Associate Professor, School of Computer Science and Engineering (SCOPE), VIT University, Vellore.
7	Dr.S.Thilagamani	Professor & Head, CSE, MKCE, Karur.
8	Dr.M.Mohan Prasad	Associate Professor & Head, Mechanical Engineering, MKCE, Karur.
9	Dr.C.Kumar	Professor & Head, EEE, MKCE, Karur.
10	Dr.S.Palanivel Rajan	Professor & Head, ECE, MKCE, Karur.
11	Dr.K.Jeyalakshmi	Assistant Professor, Chemistry, MKCE, Karur.
12	Dr.S.Jagadeesan	Head – IPM Cell, MKCE, Karur.

Copy submitted to

1. The Secretary, Executive Director and Principal, MKCE, Karur.
2. All the HODs, MKCE, Karur.
3. The HR office, Manager, MKCE, Karur.


R&D Head 14/9/22


Principal



Minutes of the 5th Research Advisory Board (RAB) Meeting Held on 17th Sep. 2022 at 10.00 AM.

The Chairperson welcomed all the members to the 5th meeting of the RAB and apprised the members about College strong research base and stated that several of the faculty members are involved in sponsored research in addition to doctoral research supervision.

He briefed the members that there are many research areas in which the College needs to move faster hence the College felt it would be advantageous to set up focused research centers in terms of research as against academic.

He stated that the College expects to be advised by the Research Advisory Board members to provide a focused direction towards all research activities.

Agenda:

1. Academic Year 2021-22 Research Activities Target and completion details.
2. Action Plan for the Academic Year 2022-23 Research Activities.
3. Suggestions from RAB members to improve R&D Activities.

Discussion

1. The Journal Paper publication target of the faculty and students are 599 (290+309) for the Academic year 2021-22 which includes SCI/E, Scopus and WoS indexed journals, but the target achieved is 466, 16 patents and 1 copy rights remaining 93 papers are under review.

The RAB members are noted the status of the journal publications for the last year and appreciated the progress of SCI/E publications compare to previous years like 2018-19, 2019-20 and 2020-21.

The RAB members asked the reasons for lagging in publication count compared to 2020-21.

The members of various departments are given explanations like under review and given assurance for next academic year to meet out the target.

Refer – Annexure 1.

2. The target for Patent publication is 132 for the Academic year 2021-22 but the target achieved is 119. The RAB members are noted the status of the patent publication and appreciated our team effort.

Refer – Annexure 1.

3. The Amount generation through the Research Projects have fixed for all departments are 1.3 Crore for the Academic year 2021-22. But amount generated through the Research Projects are Rs.16.96 Lakhs.

The RAB members are noted the status of the fund generation through the Funded Projects and asked the reasons for the lagging in fund generation.

The members of various departments are given explanations like most of the applied projects are in review stage and surely it will be sanctioned.

Refer – Annexure 2.

4. For the Academic year 2021-22 Research Target in various aspects like Funded projects, Consultancy Projects, Journal Publications and Patent Publications are discussed.

Refer – Annexure 2.

5. Action Plan to Improve the Research & Development Activities

➤ Journal Publication

Ph.D Completed Faculty members – Minimum 2 SCI/E Publications/Year

Ph.D Pursuing Faculty members – Minimum 1 SCI/E Publications or 2 (Scopus and WoS) /Year

Other Faculty members – Minimum 1 Scopus or 1 WoS Publications/Year

- Management is approved incentive money to improve the quality of Journal Publications

S.No	Scimago Ranking	Amount
1	Q4	5000
2	Q3	7500
3	Q2	10000
4	Q1	15000
5	Q1 and above 10 IF	20000

- Management is approved incentive money to improve the quality of Conference Publications.

S.No	Years of Experience @MKCE	Amount
1	Upto 5 Years	4000
2	5 to 8 Years	5000
3	More than 8 Years	10000

- Management is Sanctioned Seed Money 15 Lakhs/ Annum to support Projects and Patent Publications

- 12 On duty/Year will be provided for Ph.D Scholar (External Supervisor)
- 9 On duty/Year will be provided for Ph.D Scholar (Internal Supervisor)
- Faculty can avail On duty for their NPTEL Exam
- NPTEL Registration amount will be reimbursed for Elite Certificates
- Patent Publication

Each Faculty member – Minimum 1 Patent Publication/Year

- Amount Generation through Consultancy Projects

Ph.D Completed Faculty members – Minimum Rs.50000 /Year

- Consultancy Project share

Category	Activity	Institute's Share as a % of Revenue Generated through Consultancy cost	PI and CoI Share as a % of Revenue Generated through Consultancy cost
I	Projects requiring use of Laboratory and other facilities of the Institute	50	50
II	Projects that do not use Institute facilities	30	70

- Funded Projects

Ph.D Completed Faculty members – Minimum 3 Proposal submission /Year

Ph.D Pursuing Faculty members – Minimum 1 Proposal submission /Year

S. No.	Objectives-Research											
1	UG final year students (per project batch) shall publish one paper in Scopus index journals/Scopus indexed conference proceedings or Publish a patent											
2	PG students shall publish one paper in SCIE/Scopus index journals/Scopus indexed conference proceedings or publish a patent											
3	The following target has been fixed for the department regarding the signing of MoU's with the companies/institutions in the year 2022-2023 with minimum of 2 activities under the MoUs. At least 2 activities shall be conducted under each active MoUs											
	Dept.	AI	CSBS	Civil	CSE	ECE	EEE	IT	Mech	MBA	MCA	Total
	No. of MoU	1	1	1	2	3	2	2	2	2	2	18
4	Each Department shall get funded project with the worth of Rs. 10 Lakhs											
5	Each Department shall get consultancy fund with the worth of Rs. 5 Lakhs											
6	At least one Centre of Excellence facility has to be created in each department (can be done with Inter-departmental collaboration).											
7	Every faculty members shall publish either one conference paper or one book chapter/ book with ISBN in a year.											
8	Each faculty members have to file at least one patent/copyrights											
9	10% of published patent shall get Granted status and 5% of published patent shall be commercialized from each department											
10	Every faculty shall attend minimum two one-week training in a year (outside college either online or offline). One shall be either UHV or IPR related FDP/STTP											
11	Start-ups centers to be established before July 2023 from each departments (Minimum 1)											
12	Each Faculty members shall publish two research papers (i) Doctorates have to publish two papers in SCI/SCIE indexed journals (ii) Non-doctorates (not registered Ph.D. & Ph.D. registered and not confirmed) have to publish one paper in Scopus and another one in WoS indexed journals (iii) Non-doctorates (Ph.D. registered and confirmation received) have to publish one paper in SCIE or two in Scopus/WoS indexed journals (All papers shall be a 'Q' - indexed one)											
13	Ph.D. Research Scholars who have registered their Ph.D. before July 2018 have to complete their work and to submit their thesis before July 2023											
14	Each stream shall conduct at least one National / International conference in a Academic year with minimum of 100 participants and proceedings of the conference shall have ISBN and Scopus indexed.											
15	Each department shall conduct at least Four National / International Seminars/ Workshops in a Academic year with minimum of 50 participants.											
16	Each department shall conduct at least one program related to Innovation/Entrepreneurship/IPR of minimum 5 days											

17	The following department shall get/apply research centre status. i)IT, ii) MBA, iii) Physics and iv) Chemistry
18	FD Team shall conduct at least three skill development workshops/Seminars in a Academic year with minimum of 100 participants.
19	RD Team shall conduct at least three Research/IPR workshops/Seminars in a Academic year with minimum of 100 participants.
20	IQAC Team shall conduct at least four workshops/Seminars related to IQAC/NAAC/other accreditation in a Academic year with minimum of 100 participants.
21	Each department shall conduct at least Four Extension activities to the society through our students and faculty members in a Academic year with minimum of 50 participants.
22	Each department shall collaborate with other incubation units, HEIs and industry associations to strengthen better services and support to innovation & Startups

Suggestions given by RAB members

Dr.S.Chidambaram

- Large number of publications has been produced in recent years.
- Department of Mechanical and ECE are having more number of publication everywhere, Give focus on the other department than much mechanical and ECE for research.
- Give Importance for the department of chemistry and physics and collaboration can be done with engineering division for promoting research.
- Collaborative research is required with inter-dept. for applying funding and publication.
- Funded projects can be applied for various funding agencies and improve publication through funding and can produce Ph.D candidates.
- Domain wise faculty have to be identified for research collaboration.
- Initiatives must be taken in emerging areas where lots of funds are available.
- List of proposal submitted slides can be added to the presentation slides.
- Faculties acting as reviewers in reputed journals can be added to the presentation slides.

Dr.E.R.Rajkumar


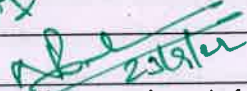
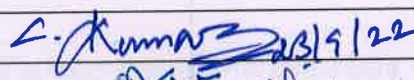


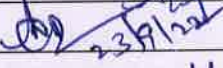
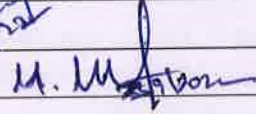
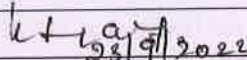
- Industry- Institute- Interaction must be enhanced to improve consultancy activities.
- A dedicated faculty team must be framed to promote the quality along with the quantity of publication and to improve the citation.
- Make use of free training and services offered by the Taylor & Francis, Elsevier and Springer to improve research activities and publications.
- Ready to take faculty members for training in the period of 6 months to 1 year in VLSI domain to promote consultancy activity.
- Initiative must be taken to drag industry peoples for interacting with students and faculties both in online and offline mode for placement through internship activities.

- Through Industry- Institute- Interaction cell a solution can be provided for real time problem in industry and granting it as an industry project.

Dr.R.Mohanasundaram

- Self supported start-up can be introduced in institute.
- Collaboration with big consultant can be introduced to promote R&D.
- Publications and citation count are good in number.
- Cash award can be given for best student projects to improve student publications.
- Inviting industry experts to improve start-ups and new ideas can be implemented in core subject curriculum.
- Active team members (faculty and students of MKCE) can be connected with VIT for collaborative R&D activities and institute promotions.

Research Advisory Board Members

S. No	Name	Signature
1	Dr.S.Kuppusamy	
2	Dr.N.Ramesh Babu	
3	Dr.S.Chidambaram	Due to online meeting, Acknowledgement copy of mail is attached
4	Dr.D.Madhan Mohan	Not attended
5	Dr.E.R.Rajkumar	Due to online meeting, Acknowledgement copy of mail is attached
6	Dr.R.Mohanasundaram	Due to online meeting, Acknowledgement copy of mail is attached
7	Dr.C.Kumar	
8	Dr.S.Jagadeesan	
9	Dr.S.Thilagamani	
10	Dr.S.Palanivel Rajan	
11	Dr.M.Mohan Prasad	
12	Dr.K.Jeyalakshmi	


Research & Development Cell Head


Principal



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Research and Development Cell

Annexure 1

Faculty Publication Details - Academic Year 2021-22

S.No	Department	SCI/E		Scopus		WoS		Total	
		Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
1	AI	5	5	5	2	5	1	15	8
2	CSBS	4	5	4	2	4	2	12	9
3	Civil	5	5	8	6	8	1	21	12
4	CSE	23	17	9	5	9	4	41	26
5	ECE	39	37	9	5	9	6	57	48
6	EEE	27	44	6	4	6	4	39	52
7	IT	23	30	6	3	6	3	35	36
8	MECH	34	36	8	7	8	3	50	46
9	MBA			7	3	7	5	14	8
10	MCA	2	2	2	2	2	1	6	5
		162	181	64	39	64	30	290	250


Research & Development Cell Head


Principal



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Research and Development Cell

Annexure 1

Students Publication Details - Academic Year 2021-22

S.No	Department	Target (Scopus/WoS)		Achieved (Scopus/WoS)	
		UG	PG	UG	PG
1	Civil	11	-	8	-
2	CSE	30	1	26	1
3	ECE	65	5	50 (15 Patents)	5
4	EEE	20	6	20	6
5	EIE	08	-	1	-
6	IT	27	-	25 (1-Patent/1 Copy Right)	-
7	Mech	56	7	1	-
8	MBA	-	48	-	42 (UGC Care)
9	MCA	-	31	-	31
Total		217	98	131 (16-Patents/1 Copy Right)	43 +42

C. Kumarasamy 23/9/22
Research & Development Cell Head

[Signature]
Principal



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Research and Development Cell

Annexure 2

Patents/Grants/Funded Project Details - Academic Year 2021-22

S.No	Department	Patents/Copy Rights			Grants (INR in Lakhs)		Funded Projects (INR in Lakhs)	
		Target	Published	Granted	Target	Achieved	Target	Achieved
1	AI	5	3	-	2	-	15	1.66
2	CSBS	3	4	-	2	-	15	-
3	Civil	10	3	-	2	-	15	0.075
4	CSE	17	10	1	2	2.93	15	15.075
5	ECE	28	37	9	2	-	15	-
6	EEE	17	13	2	2	-	15	-
7	IT	20	15+1	-	2	-	15	-
8	MECH	23	13	2	2	0.2	15	0.075
9	MBA	6	0	-	2	0.25	5	0.075
10	MCA	3	5	-	2	-	5	-
		132	104	15	20	3.38	130	16.96

C. Kumarasamy 23/5/22
Research & Development Cell Head

Principal *23/5*



Research MKCE <research@mkce.ac.in>

5th RAB meeting minutes for approval - Reg

4 messages

Research MKCE <research@mkce.ac.in>

Wed, Sep 21, 2022 at 6:23 PM

To: chidambaramselva@gmail.com, Madhan Mohan D <dmadhanmohan@gmail.com>, mohanasundaramr@vit.ac.in, errajkumar@apexsemi.com

Dear sir,

Herewith i have attached 5th Research Advisory Board meeting minutes for approval.

Kindly acknowledge the same.

Thank you.

--
With Regards,
Dr.C.Kumar,
Head, Research and Development,
M.Kumarasamy College of Engineering (Autonomous),
Karur - 639113, India.
Mobile No.: 9994942022

2 attachments **RAB Meeting Minutes to members.docx**
107K **Annexure 1 & 2.docx**
55K**Mohanasundaram R** <mohanasundaramr@vit.ac.in>
To: Research MKCE <research@mkce.ac.in>

Wed, Sep 21, 2022 at 6:30 PM

Dear Prof,

Thanks for your mail. I have checked the attached file and its perfect.

Thanks and Regards,

Dr Mohanasundaram Ranganathan
Associate Professor Grade 2- School of Computer Science and Engineering (SCOPE)
Chief Warden - VIT Men's Hostel
Vellore Institute of Technology (VIT), Vellore
Tamilnadu, India.

mail: mohanasundaramr@vit.ac.in, mohan.sundhar@gmail.com
contact: +91 9894820008

- VIT - Recognised as Institution of Eminence (IoE) by Government of India

From: Research MKCE <research@mkce.ac.in>
Sent: Wednesday, September 21, 2022 6:23:28 PM
To: chidambaramselva@gmail.com; Madhan Mohan D; Mohanasundaram R; errajkumar@apexsemi.com
Subject: 5th RAB meeting minutes for approval - Reg

[Quoted text hidden]

Chidambaram Subramanian <chidambaramselva@gmail.com> Thu, Sep 22, 2022 at 11:06 PM
To: Research MKCE <research@mkce.ac.in>
Cc: Madhan Mohan D <dmadhanmohan@gmail.com>, mohanasundaramr@vit.ac.in, errajkumar@apexsemi.com

Dear Sir,

I have read all the points and it has been clearly presented with all the details. Now I approve and accept all the points in Minutes of Meeting and Annexure 1 & 2.

I hope we meet again and my best wishes to entire team.

Thanking You
Dr. S Chidambaram

[Quoted text hidden]

Kind Regards
Chidambaram Subramanian
Senior Scientist
NDT & Metallurgy Group
Central Mechanical Engineering Research Institute
CSIR, Government of India
Durgapur, West Bengal
Mobile No: +91-8253860790

Rajkumar Elagiri Ramalingam <errajkumar@apexsemi.com> Fri, Sep 23, 2022 at 11:38 AM
To: Research MKCE <research@mkce.ac.in>
Cc: chidambaramselva@gmail.com, Madhan Mohan D <dmadhanmohan@gmail.com>, mohanasundaramr@vit.ac.in

Hello Team,

The minutes of meeting are approved and please proceed further processing.

Best Regards
Rajkumar

[Quoted text hidden]

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From

Dr.C.Kumar,
R&D Head, MKCE, Karur.

To

The Principal,
MKCE, Karur.

Dr. C. Kumar
26/9/22

Respected sir,

Sub: Remuneration towards Research Advisory Board members – Attending RAB meeting on 17.09:2022 – Reg.

For the improvement of R&D activities in the college, we have conducted Research Advisory Board meeting on 17.09.2022 through online mode. Three External experts are attended and given suggestions to improve the R&D activities.

In this regard to honor the RAB members, it is proposed to give remuneration Rs.5000 Each. Hence kindly, I request you to sanction the total amount Rs. 15000 for the above mentioned one.

Thanking you.

Herewith I have mentioned RAB members account details

S.No	Name of the RAB member	Account Details	
1	Dr.E.R.Rajkumar	Name of the Account holder	E.R.Rajkumar
		Account Number	407529396
		Name of the Bank with branch	Indian Bank, VIT Branch
		IFS Code	IDIB000V086
2	Dr.R.Mohanasundaram	Name of the Account holder	Mohanasundaram R
		Account Number	361100050300999
		Name of the Bank with branch	Tamilnadu Mercantile Bank, Kanakkankadu branch
		IFS Code	TMBL0000361
3	Dr.S.Chidambaram	Name of the Account holder	Chidambaram S
		Account Number	20133135937
		Name of the Bank with branch	SBI and Numaligarh Refinery Complex
		IFS Code	SBIN0005377

Dr. C. Kumar
26/9/22

C. Kumar
Regards, *23/9/22*