



# RGM COLLEGE OF ENGINEERING AND TECHNOLOGY (AUTONOMOUS)

NANDYAL-518501, KURNOOL (Dt.), A.P., INDIA

Phone : 08514 - 275201, 275203, 275204. Fax : 08514 - 275123, 275526

Web: www.rgmcet.edu.in | E-mail: principal.9@jntua.ac.in | E-mail: principal@rgmcet.edu.in

## RESEARCH ADVISORY COMMITTEE

With the objective of guiding and monitoring the research activities of the staff and student in the institute, the R & D has initiated the establishment of the Research Advisory Committee (RAC)

S No	Name	Designation	Organization	Responsibility
1	Dr. T. Jayachandra Prasad	Principal and Professor of ECE	RGM CET, Nandyal	Chairman
2	Dr. V. Nagabhakar Reddy	HOD of Electrical and Electronics Engineering	RGM CET, Nandyal	Convener
3	Dr. P. V. Gopi Krishna Rao	Co-ordinator, IQAC, Professor of ECE	RGM CET, Nandyal	Member
4	Dr. SK Mouleeshwaran	Professor of Computer Science Engineering	Dayananda Sagar University, Bengaluru	Member
5	Dr. S.Senthil Kumar	Associate Professor, Department of Electrical Engineering	National Institute of Technology, Tiruchirapalli, Tamilnadu	Member
6	Prof. B. Sobha	Professor of Physics	National Institute of Technology, Warangal, Telangana	Member
7	Mr. K. Sandeep Kumar	Controls Software Engineer	Fluence Energy, Bengaluru	Member
8	Dr. M. Venkata Sudhakar	Professor of ECE	Lakireddy Bali Reddy College of Engineering (A), Mylavaram	Member
9	Dr. K. Porkumaran	Principal	Sairam Engineering College, Chennai, Tamilnadu	Member
10	Dr. P. Palanisamy	Professor, Department of Electronics & Communication Engineering	National Institute of Technology, Tiruchirapalli, Tamilnadu	Member



*Dr. T. JAYACHANDRA PRASAD*  
M.E.P.T.P.

WORLD BANK FUNDED INSTITUTION

Offering B.Tech., M.Tech., M.B.A., M.C.A and Ph.D. Programs

Approved by AICTE, New Delhi; Affiliated to JNTUA, Ananthapuramu

Accredited by NBA of AICTE (B.Tech. in Civil, EEE, ECE & Mech. Engg.), Accredited by NAAC of UGC with 'A+' Grade

UGC Conferred CPE status (College with Potential for Excellence), APSSDC - SIEMENS-TSDI (Technical Skill Development Institute)

Recognized UGC DDU Kaushal Kendra



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## Research Advisory Committee Meeting Proceedings

**Date:** 20-04-2019

**Time:** 2:00PM

**Location:** Board Room, Principal's Office

### Agenda:

1. Welcome and Introductions
2. Presentation of Research Project:
  - a) Design of CNT based TSVs for a realistic 3D integrated circuits
  - b) Design and synthesis of potential hybrid materials for CO<sub>2</sub> sequestration and in situ chemical conversion: a new frontier in environmental sciences
  - c) Design and Implementation of a Two Degree of Freedom PID Control Scheme Based on IMC and Smith Predictor for Rejecting Loop Interaction in Multivariable Processes
3. Discussion on Research Methodology and Findings
4. Expert Presentation: Dr. SK Mouleeswaran, Professor, Dayananda Sagar University, Bengaluru
5. Committee Recommendations and Suggestions
6. Future Research Direction
7. Action Items and Next Steps
8. Closing Remarks

### Meeting Minutes:

#### 1. Welcome and Introductions

- The meeting was called to commence at 2:00PM.
- Dr. T. Jayachandra Prasad, Chairman of the Research Advisory Committee, welcomed all attendees and introduced the purpose of the meeting.

#### 2. Presentation of Research Project:

- a) V. Ramesh Kumar, the lead researcher, presented an overview of the "Design of CNT based TSVs for a realistic 3D integrated circuits"
- b) Dr. K. Thirupathi Reddy, the lead researcher, presented an overview of the "Design and synthesis of potential hybrid materials for CO<sub>2</sub> sequestration and in situ chemical conversion: a new frontier in environmental sciences"
- c) Dr. P. V. Gopi Krishna Rao and Dr. R. Hanuma Naik, the researchers, presented an overview of the "Design and Implementation of a Two Degree of Freedom PID Control Scheme Based on IMC and Smith Predictor for Rejecting Loop Interaction in Multivariable Processes"

- The presentations included information about the research objectives, methodology, and initial findings.





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## 3. Discussion on Research Methodology and Findings

- Committee members engaged in a lively discussion regarding the research methodology and the significance of the preliminary findings.
- Questions were raised about the sample size, data collection methods, and potential implications of the findings and commercial ability of the research.

## 4. Expert Presentation:

- Dr. SK Mouleeswaran, an invited expert in Cloud Computing, delivered a presentation on Security aspects in cloud computing.
- The presentation covered recent developments in the field and their relevance to the ongoing research project.

## 5. Committee Recommendations and Suggestions

- Committee members provided feedback and recommendations for enhancing the research project's scope and impact.
- Suggestions were made to explore specific variables, collaborate with other research groups from industry, and consider potential applications of the findings and patenting of the findings.

## 6. Future Research Direction

- The committee discussed possible future research directions that align with the project's goals and emerging trends in the field.
- It was agreed to explore partnerships with industry stakeholders and to investigate the feasibility of securing additional funding.

## 7. Action Items and Next Steps

- Action items were identified, including revising the research methodology, contacting potential collaborators, and preparing a brief summary of the meeting's outcomes.
- Responsibilities for each action item were assigned to committee members.

## 8. Closing Remarks

- The Chair thanked all attendees for their valuable contributions and active participation.
- The next committee meeting was tentatively scheduled for 15-11-2019 to review the progress on action items and discuss further developments.

  
Convenor



  
Dr. T. JAYACHANDRÁ PRASAD  
M.E, Ph.D.,  
Chairman  
PRINCIPAL  
R G M College of Engg. & Tech.,  
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## Research Advisory Committee Meeting Proceedings

**Date:** 20-11-2019

**Time:** 2:00PM

**Location:** Board Room, Principal's Office

### Agenda:

1. Welcome and Introductions
2. Presentation of Research Project:
  - a) Design of CNT based TSVs for a realistic 3D integrated circuits
  - b) Synthesis, Structural and Optical Characterization of Rare Earth Doped Transparent Glasses and Glass-Ceramics for Fiber Laser Applications
  - c) Design and Implementation of a Two Degree of Freedom PID Control Scheme Based on IMC and Smith Predictor for Rejecting Loop Interaction in Multivariable Processes
3. Discussion on Research Methodology and Findings
4. Committee Recommendations and Suggestions
5. Future Research Direction
6. Action Items and Next Steps
7. Closing Remarks

### Meeting Minutes:

#### 1. Welcome and Introductions

- The meeting was called to commence at 2:00PM.
- Dr. T. Jayachandra Prasad, Chairman of the Research Advisory Committee, welcomed all attendees and introduced the purpose of the meeting.

#### 2. Presentation of Research Project:

- a) J. C. Jamalaih, the lead researcher, presented an overview of "Synthesis, Structural and Optical Characterization of Rare Earth Doped Transparent Glasses and Glass-Ceramics for Fiber Laser Applications."
  - b) V. Ramesh Kumar, the lead researcher, presented an overview of the "Design of CNT based TSVs for a realistic 3D integrated circuits"
  - c) Dr. P. V. Gopi Krishna Rao and Dr. R. Hanuma Naik, the researchers, presented an overview of the "Design and Implementation of a Two Degree of Freedom PID Control Scheme Based on IMC and Smith Predictor for Rejecting Loop Interaction in Multivariable Processes"
- The presentations included information about the research objectives, methodology, and initial findings.

*Reddy*

*[Signature]*





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## 3. Discussion on Research Methodology and Findings

- Committee members engaged in a lively discussion regarding the research methodology and the significance of the preliminary findings and its linkage to practical applications.
- Questions were raised about the analysis methods, input constraints, sample size, data collection methods, and potential implications of the findings and commercial ability of the research.

## 4. Expert Presentation:

- Dr. SK Mouleeswaran, an invited expert in Cloud Computing, delivered a presentation on Security aspects in cloud computing.
- The presentation covered recent developments in the field and their relevance to the ongoing research project.

## 5. Committee Recommendations and Suggestions

- Committee members provided feedback and recommendations for enhancing the research project's scope and impact.
- Suggestions were made to explore specific variables, collaborate with other research groups from industry, and consider potential applications of the findings and patenting of the findings.

## 6. Future Research Direction

- The committee discussed possible future research directions that align with the project's goals and emerging trends in the field.
- It was agreed to explore partnerships with industry stakeholders and to investigate the feasibility of securing additional funding.

## 7. Action Items and Next Steps

- Action items were identified, including revising the research methodology, contacting potential collaborators, and preparing a brief summary of the meeting's outcomes.
- Responsibilities for each action item were assigned to committee members.

## 8. Closing Remarks

- The Chair thanked all attendees for their valuable contributions and active participation.
- The next committee meeting was tentatively scheduled for 06-04-2020 to review the progress on action items and discuss further developments.

  
Convenor



  
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Chairman, M.E., Ph.D.,  
PRINCIPAL  
R G M College of Engg. & Tech.,  
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## Research Advisory Committee Meeting Proceedings

**Date:** 18-12-2020

**Time:** 11:00AM

**Location:** Board Room, Principal's Office/ Online Mode

### Agenda:

1. Welcome and Introductions
2. Presentation of Research Project:
  - a) Challenges in electrical vehicular battery charging and grid integration issues
  - b) Development and performance evaluation of high efficient solar hot fluid generator
  - c) Design, Analysis and Practical Implementation of Digital Controlled Islanding Detection Methods for Grid Connected Photovoltaic Systems
  - d) Analysis of Solar Phtovoltaic AC & DC Surface/ Submersible pumping system for irrigation purpose
3. Discussion on Research Methodology and Findings
4. Committee Recommendations and Suggestions
5. Future Research Direction
6. Action Items and Next Steps
7. Closing Remarks

### Meeting Minutes:

#### 1. Welcome and Introductions

- The meeting was called to commence at 11:00AM.
- Dr. T. Jayachandra Prasad, Chairman of the Research Advisory Committee, welcomed all attendees and introduced the purpose of the meeting.

#### 2. Presentation of Research Project:

- a) D. Lenine, the Principal investigator, presented the overview of "Challenges in electrical vehicular battery charging and grid integration issues"
  - b) V. Siva Reddy, the Principal investigator, presented the overview of "Development and performance evaluation of high efficient solar hot fluid generator"
  - c) J. Surya Kumari, the Principal investigator, presented the overview of "Design, Analysis and Practical Implementation of Digital Controlled Islanding Detection Methods for Grid Connected Photovoltaic Systems"
  - d) Upendra Rajak, the principal investigator, presented the overview of "Analysis of Solar Phtovoltaic AC & DC Surface/ Submersible pumping system for irrigation purpose"
- The presentations included information about the research objectives, methodology, findings and analysis.





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## 3. Discussion on Research Methodology and Findings

- Committee members engaged in a lively discussion regarding the research methodology and the significance of the preliminary findings.
- Questions were raised about the sample size, data collection methods, and potential implications of the findings and commercial ability of the research.

## 4. Committee Recommendations and Suggestions

- Committee members provided feedback and recommendations for enhancing the research project's scope and impact.
- Suggestions were made to explore specific variables, collaborate with other research groups from industry, and consider potential applications of the findings and patenting of the findings.

## 5. Future Research Direction


- The committee discussed possible future research directions that align with the project's goals and emerging trends in the field.
- It was agreed to explore partnerships with industry stakeholders and to investigate the feasibility of securing additional funding.

## 6. Action Items and Next Steps

- Action items were identified, including revising the research methodology, contacting potential collaborators, and preparing a brief summary of the meeting's outcomes.
- Responsibilities for each action item were assigned to committee members.

## 7. Closing Remarks

- The Chair thanked all attendees for their valuable contributions and active participation.
- The next committee meeting was tentatively scheduled for 05-06-2021 to review the progress on action items and discuss further developments.

  
Convenor



  
Chairman  
Dr. T. JAYACHANDRA PRASAD  
M.E, Ph.D.,  
PRINCIPAL  
R G M College of Engg. & Tech.,  
(Autonomous)  
NANDYAL



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## Research Advisory Committee Meeting Proceedings

**Date:** 07-10-2021

**Time:** 11:00AM

**Location:** Board Room, Principal's Office/ Online Mode

### Agenda:

1. Welcome and Introductions
2. Presentation of Research Project:
  - a) Design and Analysis of DSPACE Controller Based Islanding Detection Method for Magnetic Coupled Impedance Source PV Grid Connected Systems.
  - b) Development and performance evaluation of high efficient solar hot fluid generator
  - c) Implementation of Fractional Order PID controller for waste water treatment
  - d) Analysis of Solar Phtovoltaic AC & DC Surface/ Submersible pumping system for irrigation purpose
3. Discussion on Research Methodology and Findings
4. Committee Recommendations and Suggestions
5. Future Research Direction
6. Action Items and Next Steps
7. Closing Remarks

### Meeting Minutes:

#### 1. Welcome and Introductions

- The meeting was called to commence at 11:00AM.
- Dr. T. Jayachandra Prasad, Chairman of the Research Advisory Committee, welcomed all attendees and introduced the purpose of the meeting.

#### 2. Presentation of Research Project:

- a) D. Lenine, the Principal investigator, presented the overview of "Design and Analysis of DSPACE Controller Based Islanding Detection Method for Magnetic Coupled Impedance Source PV Grid Connected Systems"
- b) V. Siva Reddy, the Principal investigator, presented the overview of "Development and performance evaluation of high efficient solar hot fluid generator"
- c) P. V. Gopi Krishna Rao and R. Hanuma Naik, the investigators, presented the overview of "Implementation of Fractional Order PID controller for waste water treatment"
- d) Upendra Rajak, the principal investigator, presented the overview of "Analysis of Solar Phtovoltaic AC & DC Surface/ Submersible pumping system for irrigation purpose"





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- The presentations included information about the research objectives, methodology, findings and analysis.

### 3. Discussion on Research Methodology and Findings

- Committee members engaged in a lively discussion regarding the research methodology and the significance of the preliminary findings.
- Questions were raised about the sample size, data collection methods, and potential implications of the findings and commercial ability of the research.

### 4. Committee Recommendations and Suggestions

- Committee members provided feedback and recommendations for enhancing the research project's scope and impact.
- Suggestions were made to explore specific variables, collaborate with other research groups from industry, and consider potential applications of the findings and patenting of the findings.

### 5. Future Research Direction

- The committee discussed possible future research directions that align with the project's goals and emerging trends in the field.
- It was agreed to explore partnerships with industry stakeholders and to investigate the feasibility of securing additional funding.

### 6. Action Items and Next Steps

- Action items were identified, including revising the research methodology, contacting potential collaborators, and preparing a brief summary of the meeting's outcomes.
- Responsibilities for each action item were assigned to committee members.

### 7. Closing Remarks

- The Chair thanked all attendees for their valuable contributions and active participation.
- The next committee meeting was tentatively scheduled for 12-06-2022 to review the progress on action items and discuss further developments.

  
Convenor



  
Dr. T. JAYACHANDRA PRASAD  
M.E, Ph.D.,  
Chairman  
PRINCIPAL  
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## Research Advisory Committee Meeting Proceedings

**Date:** 13-09-2022

**Time:** 11:00AM

**Location:** Board Room, Principal's Office/ Online Mode

### Agenda:

1. Welcome and Introductions
2. Presentation of Research Project:
  - a) Design and Analysis of DSPACE Controller Based Islanding Detection Method for Magnetic Coupled Impedance Source PV Grid Connected Systems.
  - b) Development and performance evaluation of high efficient solar hot fluid generator
  - c) Implementation of Fractional Order PID controller for waste water treatment
  - d) Experimental analysis of Nu and f in DHPE using turbulators in food processing technology Discussion on Research Methodology and Findings
3. Committee Recommendations and Suggestions
4. Future Research Direction
5. Action Items and Next Steps
6. Closing Remarks

### Meeting Minutes:

#### 1. Welcome and Introductions

- The meeting was called to commence at 11:00AM.
- Dr. T. Jayachandra Prasad, Chairman of the Research Advisory Committee, welcomed all attendees and introduced the purpose of the meeting.

#### 2. Presentation of Research Project:

- a) D. Lenine, the Principal investigator, presented the overview of "Design and Analysis of DSPACE Controller Based Islanding Detection Method for Magnetic Coupled Impedance Source PV Grid Connected Systems"
  - b) V. Siva Reddy, the Principal investigator, presented the overview of "Development and performance evaluation of high efficient solar hot fluid generator"
  - c) P. V. Gopi Krishna Rao and R. Hanuma Naik, the investigators, presented the overview of "Implementation of Fractional Order PID controller for waste water treatment"
  - d) Upendra Rajak, the principal investigator, presented the overview of "Experimental analysis of Nu and f in DHPE using turbulators in food processing technology"
- The presentations included information about the research objectives, methodology, findings and analysis.





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## 3. Discussion on Research Methodology and Findings

- Committee members engaged in a lively discussion regarding the research methodology and the significance of the preliminary findings.
- Questions were raised about the sample size, data collection methods, and potential implications of the findings and commercial ability of the research.

## 4. Committee Recommendations and Suggestions

- Committee members provided feedback and recommendations for enhancing the research project's scope and impact.
- Suggestions were made to explore specific variables, collaborate with other research groups from industry, and consider potential applications of the findings and patenting of the findings.

## 5. Future Research Direction

- The committee discussed possible future research directions that align with the project's goals and emerging trends in the field.
- It was agreed to explore partnerships with industry stakeholders and to investigate the feasibility of securing additional funding.

## 6. Action Items and Next Steps

- Action items were identified, including revising the research methodology, contacting potential collaborators, and preparing a brief summary of the meeting's outcomes.
- Responsibilities for each action item were assigned to committee members.

## 7. Closing Remarks

- The Chair thanked all attendees for their valuable contributions and active participation.
- The next committee meeting was tentatively scheduled for 16-07-2023 to review the progress on action items and discuss further developments.

  
Convenor



  
Chairman  
**Dr. T. JAYACHANDRA PRASAD**  
M.E,Ph.D.,  
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