

PSN College of Engineering and Technology (Autonomous)



Melathediyoor, Tirunelveli - 627 152, Tamilnadu
Approved by AICTE and Affiliated to Anna University
Accredited by NAAC and Recognised by UGC under section 2(f) and 12(B)
An ISO 9001 : 2015 Certified Institution



Minutes of Expert Committee meeting for the selection of project proposal submitted under Faculty Research Initiative in Science and Technology (FRIST) Scheme held on 20.9.2022 in Board Room, PSN College of Engineering and Technology

Members Present

1. Dr.V.Manikandan :Convener
Principal
PSN College of Engineering and Technology
Tirunelveli
2. Dr.V.Arumuga Prabu :Expert Member(External)
Professor
Department of Mechanical Engineering
Kalasalingam Academy of Research and Education
Krishnancoil
3. Dr.C.Seldev Chrisopher :Expert Member (External)
Professor
Department of Computer Science
St.Xavier's Catholic College of Engineering
Chunkankadai, Nagercoil
4. Dr.S.Kumaresan : Member (Internal)
Professor. Science and Humanities
PSN College of Engineering and Technology
Tirunelveli
5. Dr.S.P.Umayal :Member (Internal)
Professor & Director (Academics)
PSN College of Engineering and Technology
Tirunelveli
6. Dr. A.M.Shanawaz :Member (Internal)
Professor M&A & Director (Skill Development)
PSN College of Engineering and Technology
Tirunelveli

Principal and Convener of the committee welcomed all the members. He informed that due to the present pandemic situation, the Research Advisory Council meeting could not be convened. Therefore the management has decided to constitute an ad-hoc expert committee with the above member for the selection of project proposal submitted under FRIST scheme of the college for the academic year 2022-2023.

PRINCIPAL

PSN COLLEGE OF ENGINEERING & TECHNOLOGY
MELATHEDIYOOR, PALAYAMKOTTAI TALUK
TIRUNELVELI DIST. - 627 152.

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Totally eleven proposals have been received. All the faculty members who have submitted research proposals were asked to present their proposal before the committee members. Based on the presentation and interaction with the faculty members, the committee recommended the following six project proposals for funding under FRIST scheme.

S.No	Name of the Investigator	Title of the Project	Duration	Sanctioned Amount (in Rs.)
1	Dr.S.SUDHAKAR	Prewitt Logistic Deep Recurrent Neural Learning for Face Log Detection by Extracting Features from Images	2 Years	76,000
2	Dr. P.SELVAKUMAR	Thermal stability and behaviour of paraffin nano Al ₂ O ₃ , graphene and surfactant sodium oleate composite as phase change material	2 Years	90,000
3	Dr. K. ARUN PRASATH	Study of mechanical characteristics and strengthening mechanism of AA5154 during cryogenic rolling	2 Years	40,000
4	DR. V. MANIKANDAN	Influence of Cryogenic Behaviour on Copper Electrode for Non-Conventional EDM	2 Years	65,000
5	DR. M.VARGHESE	Design of Fuzzy logic control framework for QoS Routing in MANET	2 Years	60,000
6	DR. A. BHUVANESH	Implementation of an A-Source DC-DC Boost Combination Phase-Shifting Full-Bridge Converter for Electric Car Rapid Charging Applications	2 Years	65,000

Director (Academics) thanked all the members and the meeting came to an end.

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Minutes of Expert Committee Meeting

Minutes of Expert Committee meeting for the selection of project proposal submitted Under Faculty Research Initiative in Science and Technology (FRIST) Scheme held on 20.9.2022 .The meeting was held in the presence of Dr.P.Suyambu, Chairman, PSN group of institutions and Er.P.S. Jeyaram, Vice Chairman, PSN Institutions.

The meeting was attended by the following members.

- 1.Dr.V.Arumuga Prabu, Professor / Mechanical Engineering , Kalasalingam Academy of Research and Education
- 2.Dr.C.Seldev Chrisopher, Professor /Computer Science St.Xavier's Catholic College of Engineering Chunkankadai, Nagercoil
3. Dr.S.Kumaresan Professor / Chemistry, PSNCET
4. Dr.S.P.Umayal Professor & Director (Academics), PSNCET
5. Dr. A.M.Shanawaz, Professor M & A and Director (Skill Development), PSNCET
6. Dr.V.Manikandan, Principal of PSNCET

Principal welcomed the Chairman and members of the Expert Committee.

The Expert Committee reviewed the progress of the research activities of the college. They appreciated the management for establishing a Centre of Excellence in Computational Fluid Dynamics for providing training for students as well as for faculty members.

Director (Research), PSNCET informed the members that eleven faculty members have submitted minor research projects under FRIST scheme. All the eleven faculty members were called for a presentation. All the faculty members gave presentation before the members of Expert Committee. After detailed and deliberations it is decided to support the following projects under FRIST Scheme as detailed below:

S.No.	Name of the faculty	Title of the Project	Duration	Amount Sanctioned (in Rs.)
1	Dr.S.SUDHAKAR	Prewitt Logistic Deep Recurrent Neural Learning for Face Log Detection by Extracting Features from Images	2 Years	76,000
2	Dr. P.SELVAKUMAR	Thermal stability and behaviour of paraffin nano Al ₂ O ₃ , graphene and surfactant sodium oleate composite as phase change material	2 Years	90,000
3	Dr. K. ARUN PRASATH	Study of mechanical characteristics and strengthening mechanism of AA5154 during cryogenic rolling	2 Years	40,000
4	DR. V. MANIKANDAN	Influence of Cryogenic Behaviour on Copper Electrode for Non-Conventional EDM	2 Years	65,000
5	DR. M.VARGHESE	Design of Fuzzy logic control frame work for QoS Routing in MANET	2 Years	60,000
6	DR. A. BHUVANESH	Implementation of an A-Source DC-DC Boost Combination Phase-Shifting Full-Bridge Converter for Electric Car Rapid Charging Applications	2 Years	65,000

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Ref.No.: PSNCET/FRIST/2022-23/001

Faculty Research Initiative in Science and Technology (FRIST) Scheme

SANCTION LETTER

Date: 22.09.2022

With the approval of the Research Advisory Committee, PSN College of Engineering and Technology, I am glad to inform you that your project proposal with title **Prewitt Logistic Deep Recurrent Neural Learning for Face Log Detection by Extracting Features from Images** has been approved for funding under Faculty Research Initiatives in Science and Technology (FRIST) Scheme. The project period is 24 months. The grant sanctioned under various head of expenditure is as follows:

S.No.	Head of Expenditure	I year	II year	Total (head wise)
1	Consumables	20000	18000	38000
2	Contingencies	8000	8000	16000
3	Travel	1000	1000	2000
4	Testing Charges	10000	10000	20000
Total (yearwise)		39000	37000	76,000

You are hereby requested to give a letter of acceptance (LoA) within SEVEN working days from the date of receipt of this sanction letter to the undersigned along with the date of start of the project. The grant will be released as per the sanction letter by the finance section of our college from time to time.

PRINCIPAL Principal
PSN College of Engineering and Technology
MELATHEDIYOOR, PALAYAMKOTTAI TALUK,
TIRUNELVELI DIST. - 627 152.

Copy to:

1. Dr.S.SUDHAKAR
Project Investigator,
Department of Mechanical Engineering,
PSN College of Engineering and technology,
2. The Director (Research),
PSN College of Engineering and Technology.

Ref.No.: PSNCET/FRIST/2022-23/002

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Faculty Research Initiative in Science and Technology (FRIST) Scheme

SANCTION LETTER

Date: 22.09.2022

With the approval of the Research Advisory Committee, PSN College of Engineering and Technology, I am glad to inform you that your project proposal with title **Thermal stability and behaviour of paraffin nano Al₂O₃, graphene and surfactant sodium oleate composite as phase change material** has been approved for funding under Faculty Research Initiatives in Science and Technology (FRIST) Scheme. The project period is 24 months. The grant sanctioned under various head of expenditure is as follows:

S.No.	Head of Expenditure	I year	II year	Total (head wise)
1	Consumables	24000	12000	36000
2	Contingencies	7000	3000	10000
3	Travel	2000	2000	4000
4	Testing Charges	20000	20000	40000
Total (year wise)		53000	37000	90000

You are hereby requested to give a letter of acceptance (LoA) within SEVEN working days from the date of receipt of this sanction letter to the undersigned along with the date of start of the project. The grant will be released as per the sanction letter by the finance section of our college from time to time.

Principal
PSN College of Engineering and Technology
MELATHEDIYOOR, PALAYAMKOTTAI TALUK
TIRUNELVELI DIST. - 627 152.

Copy to:

1. Dr.P. SELVAKUMAR
Project Investigator,
Department of Mechanical Engineering,
PSN College of Engineering and technology,
2. The Director (Research),
PSN College of Engineering and Technology.

Ref.No.: PSNCET/FRIST/2022-23/003

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SANCTION LETTER

Date: 22.09.2022

With the approval of the Research Advisory Committee, PSN College of Engineering and Technology, I am glad to inform you that your project proposal with title **Study of mechanical characteristics and strengthening mechanism of AA5154 during cryogenic rolling**, has been approved for funding under Faculty Research Initiatives in Science and Technology (FIRST) Scheme. The project period is 24 months. The grant sanctioned under various head of expenditure is as follows:

S.No.	Head of Expenditure	I year	II year	Total (head wise)
1	Consumables	8000	10000	18000
2	Contingencies	6000	3000	9000
3	Travel	1000	1000	2000
4	Testing Charges	5000	6000	11000
Total (yearwise)		20000	20000	40000

You are hereby requested to give a letter of acceptance (LoA) within SEVEN working days from the date of receipt of this sanction letter to the undersigned along with the date of start of the project. The grant will be released as per the sanction letter by the finance section of our college from time to time.

PRINCIPAL
PSN College of Engineering and Technology
MELATHEDIYOOR, PALAYAMKOTTAI TALUK,
TIRUNELVELI DIST. - 627 152.

Copy to:

1. Dr.K. ARUN PRASATH
Project Investigator,
Department of Mechanical Engineering,
PSN College of Engineering and technology,
2. The Director (Research),
PSN College of Engineering and Technology.

Ref.No.: PSNCET/FRIST/2022-23/004

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SANCTION LETTER

Date: 22.09.2022

With the approval of the Research Advisory Committee, PSN College of Engineering and Technology, I am glad to inform you that your project proposal with title **Influence of Cryogenic Behaviour on Copper Electrode for Non-Conventional EDM** has been approved for funding under Faculty Research Initiatives in Science and Technology (FRIST) Scheme. The project period is 24 months. The grant sanctioned under various head of expenditure is as follows:

S.No.	Head of Expenditure	I year	II year	Total (head wise)
1	Consumables	28000	19000	47000
2	Contingencies	4000	5000	9000
3	Travel	2000	2000	4000
4	Testing Charges	2000	3000	5000
Total (yearwise)		36000	29000	65000

You are hereby requested to give a letter of acceptance (LoA) within SEVEN working days from the date of receipt of this sanction letter to the undersigned along with the date of start of the project. The grant will be released as per the sanction letter by the finance section of our college from time to time.

Principal
PSN College of Engineering and Technology
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TIRUNELVELI DIST. - 627 152.

Copy to:

1. Dr.V.MANIKANDAN,
Project Investigator,
Department of Mechanical Engineering,
PSN College of Engineering and technology,
2. The Director (Research),
PSN College of Engineering and Technology.

Ref.No.: PSNCET/FRIST/2022-23/005

Faculty Research Initiative in Science and Technology (FRIST) Scheme

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Date: 22.09.2022

With the approval of the Research Advisory Committee, PSN College of Engineering and Technology, I am glad to inform you that your project proposal with title **Design of Fuzzy logic control frame work for QoS Routing in MANET** has been approved for funding under Faculty Research Initiatives in Science and Technology (FRIST) Scheme. The project period is 24 months. The grant sanctioned under various head of expenditure is as follows:

S.No.	Head of Expenditure	I year	II year	Total (head wise)
1	Consumables	27000	13000	40000
2	Contingencies	5000	3000	8000
3	Travel	2000	1000	3000
4	Testing Charges	6000	3000	9000
Total (yearwise)		40000	20000	60000

You are hereby requested to give a letter of acceptance (LoA) within SEVEN working days from the date of receipt of this sanction letter to the undersigned along with the date of start of the project. The grant will be released as per the sanction letter by the finance section of our college from time to time.


PRINCIPAL Principal
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PSN College of Engineering and technology
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Copy to:

1. Dr.M.VARGHESE
Project Investigator,
Department of Mechanical Engineering,
PSN College of Engineering and technology,
2. The Director (Research),
PSN College of Engineering and Technology.

Ref.No.: PSNCET/FRIST/2022-23/006

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Date: 22.09.2022

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Copy to:

1. Dr.A. BHUVANESH
Project Investigator,
Department of Mechanical Engineering,
PSN College of Engineering and technology,
2. The Director (Research),
PSN College of Engineering and Technology.