

INDEX

CRITERION: 3.1.3

**Details of Number of departments having
Research projects funded by Government and
Non-government agencies during the year 2021-22**

S. No.	Department	Page No.
1	Electrical and Electronics Engineering	3
2	Civil Engineering	19
3	Mechanical Engineering	20

P. P. S. S. S.

J. Praveen
PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303.

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/ Co-investigator	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duration of the project	Name of the Funding Agency	Type (Government/ non-Government)
IEEE Funding for Student Branch Code 16621	Dr.A.Aldert Ruban Martin	EEE	2021-22	Rs.10,000/-	3 days	IEEE Madras Section	Non-Government
Student Project Proposal Scheme	Dr.R.Arulraj	EEE	2021-22	Rs.7,500/-	3 Months	Tamil Nadu State Council for Science and Technology, Chennai	Government
Student Project Proposal Scheme	Mrs.R.Buvaneshwari	CIVIL	2021-22	Rs.7,500/-	3 Months	Tamil Nadu State Council for Science and Technology, Chennai	Government
Student Project Proposal Scheme	Mr.S.Desigan	MECH	2021-22	Rs.7,500/-	3 Months	Tamil Nadu State Council for Science and Technology, Chennai	Government

Application Format for funding for the Student Branches (SBs)

School Code:60034987	Branch Code:16621
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1. **Name of the Organizer(s):** 1.Dr.A.Albert Martin Ruban; 2.Dr.M.Meenalochani
2. **Department:** Electrical and Electronics Engineering
3. **Designation:**1.Associate Professor 2.Assistant Professor
4. **Affiliation:** Kings College of Engineering, Punalkulam
5. **Email id of corresponding organizer:** meenalochani79@gmail.com
6. **Mobile number of the corresponding organizer:**91-9629891123
7. **Name of the event:** Smart Grid- Trends and Future Perspective
8. **Number of days:** 2
9. **Dates:** 8.11.2021 and 9.11.2021
10. **Nature of the event:** FDP
11. **Venue:** Online mode
12. **Program schedule:** Enclosed as Annexure 1
13. **Name the other organizations approached for sponsoring the event:** Nil
14. **Anticipated number of participants/number of delegates:** 100
15. **Budget :**Enclosed as Annexure 2
16. **IEEE members in your institution :**
 - Professional members: 6
 - Student members: 34
 - (Enclosed as Annexure 3)
17. **Financial support requested from IEEE Madras Section:** Rs.10,000
18. **Did the organizers receive any funding from IEEE Madras Section in this calendar year for any other events? If yes, please indicate :No**



Total amount	Year	Purpose	Whether the accounts Have been submitted
NIL	-	-	-
-	-	-	-

19. Whether you are willing to provide any free registration to IEEE MAS so that either members of IEEE MAS organizational body or its duly nominated members can attend:

If yes, how many free registrations will be provided for IEEE MAS: 5

20. Mention the name of the authority who will be responsible for submitting the audited statement of accounts for the present grant ,if sanctioned : Dr.A.Albert Martin Ruban, Associate Professor and Head/EEE, Kings College of Engineering

21. Bank details for funding

Name of IEEE SB Bank account:

Kings College of Engineering-IEEE Student Branch

Bank name: Indian Overseas Bank

IFSC: IOBA0001364

Account number: 136401000021966

(Either cheque or online fund transfer will be made as per discretion of IEEE MAS)

Joint Declaration:

We confirm that all details furnished above are correct to the best of our knowledge. Complete program schedule and detailed budget is enclosed (with signature by the organizer) as Annexure 1 and Annexure 2 along with this. We confirm that the details in the annexures are true.

A. Albert Martin Ruban
12/8/21

Signature of the Organizer
With seal

Dr.A.ALBERT MARTIN RUBAN, M.E., Ph.D.,
Head of the Department
Department of Electrical and Electronics Engineering
Kings College of Engineering,
Punalkulam,
Pudukkottai - 613 303.

J. Arputha Vijaya Selvi
12/8/2021.

Signature of the IEEE SB Counsellor
With seal



Dr. J. Arputha Vijaya Selvi,
B.E., M.E., Ph.D.,
PROFESSOR / ECE
Kings College of Engineering,
Punalkulam, Gandarvakkottai Tk,
Pudukkottai District - 613 303,
Tamilnadu.

Annexure 1
Schedule:

Date	Time	Topic	Resource Person
8.11.2021	10.00 A.M to 12.30 P.M	Distributed Generation and Micro-Grids	Dr.M.Venkatakirthiga, Associate Professor/EEE National Institute of Technology, Trichy
8.11.2021	2.00 P.M to 4.00 P.M	Introduction to Artificial Intelligence	Dr.M.Meenalochani, AP/EEE Kings College of Engineering
9.11.2021	10.00 A.M to 12.30 P.M	Optimization Techniques in Smart Grid	Dr.S.Sivakumar Professor/EEE Kings College of Engineering
9.11.2021	2.00 P.M to 4.00 P.M	Hybrid algorithms for optimal DG generation	Dr.N.Kumarappan, Chair, IEEE Madras Section Professor/EEE Annamalai University

Annexure 2
Budget Estimates (Online mode):

Head of expenditure	Amount(in Rupees)
Honorarium to Resource persons	10000


 Signature of the Organizer

Annexure 3

List of IEEE student members in the institution:

S. No	Membership Number	Name
1.	96075602	Mr. S. Rajarajan
2.	97571204	Ms. S.Puvaneswari
3.	97583523	Ms. R. Suganthalakshmi
4.	92737814	Ms. R. Ponni
5.	93393158	Mr. T. Pasupathi
6.	94349595	Mr. P. Raja Pirian
7.	97506397	Mr. K. Sudarsanan
8.	97506372	Mr. S. Ramarajan
9.	97528470	Mr. R. Thandayuthapani
10.	94353184	Ms. S. Rajeswari
11.	93086892	Mr. R. Sundaramoorthi
12.	97520114	Mr. J. Arokkiaraj
13.	97528460	Mr. S.R. Karthikeyan
14.	93316102	Mr. P. Rajasekar
15.	90736553	Mr. S.V. Vijaya Karthik
16.	97583331	Ms. G. Suguna
17.	97530445	Ms. S. Aparnaa
18.	97591798	Ms. C.Srimathi
19.	97591918	Ms. V.Vishwabhararhy
20.	97591824	Ms. P.V.Vaishnavi
21.	97591880	Ms. R.Surya
22.	97593752	Ms. M.Vinotha
23.	97629652	Ms. P. Shobiga
24.	97567243	Ms. Tamil Elackiya K
25.	97574816	Ms. K.Aiswarya
26.	97574811	Ms. G.Divyabharathi
27.	97571245	Ms. J.FasilaAfreem
28.	97404848	Ms. J.Gayathri
29.	97574837	Mr. B.Gunaseelan
30.	97574845	Mr. E.Hariharan
31.	97574805	Ms. T.Selvarani
32.	97571213	Ms. S.Suruthi
33.	97574758	Mr. K.Varun
34.	97674719	Mr. A B Avudaiappan


 Signature of the Organizer
 12/8/21

List of IEEE Professional members in the institution:

S. No	Membership Number	Name
1	90234387	Dr. J. Arputha Vijaya Selvi
2	92569286	Dr. S. Sivakumar
3	96093278	Dr. A. Albert Martin Ruben
4	96098845	Dr. S.M. Uma
5	94222998	Dr. T. Shanthi
6	96099917	Dr. D. Sivakumar

IEEE - Proposal - Financial Support - Faculty Development Programme - reg.,

Joseph Gladwin <josephgladwins@gmail.com>
To: principal@kingsengg.edu.in
Cc: Kumarappan N <kumarappan.ieee@gmail.com>

Tue, Aug 17, 2021 at 7:55 AM

Dear Dr. J. Arputha Vijaya Selvi

Based on the active IEEE SB members in your college, IEEE MAS can financially support up to Rs. 10000/- (Rupees Ten Thousand only) two day FDP planned during 8-9 November, 2021.

This amount 10000/- is therefore approved for your proposal.

The amount can be claimed as Reimbursement upon submission of following documents:

1. Event reporting as per guidelines for IEEE MASLINK Newsletter
2. Utilization certificate signed both by IEEE SB Counsellor and Principal
3. Necessary bills in original. Initially scanned copies can be sent for processing payments.
4. Proper acknowledgement upon receipt of payment.

Regards,

Dr. S. Joseph Gladwin M.E., Ph.D.,
Treasurer, IEEE Madras Section &
Secretary, IEEE AP-S Madras Chapter

[Quoted text hidden]

From

Dr.M.Meenalochani

Assistant Professor/EEE

Kings College of Engineering

Punalkulam

To

The Principal

Kings College of Engineering

Punalkulam

Through HoD/EEE,

Respected Madam,

Sub: Seeking Permission for conducting three day IEEE MAS section sponsored FDP –reg

A three day Faculty Development Program on "Smart Grid-Trends and Future Perspective" is planned to be conducted by the department of Electrical and Electronics Engineering on 8.11.21 and 9.11.21. The FDP is approved by IEEE Madras section and a financial support of Rs.10,000/- is sanctioned. In this regard, we request you to grant us permission for conducting the same.

Thanking you,

Punalkulam,

23.08.21

Yours Sincerely,



Submitted to the Principal

S. J. J. J. J.
23/8/21

J. J. J. J.
23/8/2021.



A NAAC Accredited Institution
KINGS
COLLEGE OF ENGINEERING
Recognized under 2(f) & 12(B) of UGC
Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai



A REPORT ON

IEEE MAS SPONSORED FACULTY DEVELOPMENT PROGRAM TITLED

**“SMART GRID- TRENDS AND FUTURE
PERSPECTIVE”**

8th and 9th NOVEMBER 2021

Organized by

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

KINGS COLLEGE OF ENGINEERING, PUNALKULAM

INTRODUCTION

Department of Electrical and Electronics Engineering has organized a Faculty Development Program on “**SMART GRID- TRENDS AND FUTURE PERSPECTIVE**” on 8th and 9th November, 2021. Smart grid technology aims to bring utility electricity delivery systems into the 21st century, using computer-based remote control and automation. These systems are made possible by two-way communication technology and computer processing that has been used for decades in other industries. The rise of smart grid is a boon not only to society as a whole but to all who are involved in the electric power industry, its customers, and its many stakeholders. The aim of organizers is to bring up professional discussions on smart grid technologies and its trends to provide dissemination of the knowledge to the participants.

OBJECTIVES

- To educate the participants about the concept of smart grid, the rationale for smart grid technology and its characteristics
- To provide a detailed exposure to faculty members about the most recent innovations and trends in the field of smart grid

ABOUT THE FDP

The FDP was planned to be conducted in virtual mode. Dr. A. Albert Martin Ruban, HOD/EEE was the convener and Dr.M.Meenalochani AP/EEE was the coordinator of the FDP. The registration link was created through Google forms and the link was circulated through social media websites and WhatsApp groups. Around 80 responses were received from various institutions. A confirmation mail was sent for all the registered participants. The registered participants were asked to join in the whatsapp group named “IEEE FDP on Smart Grid”. Instructions for all the events were given to the participants through the respective whatsapp group. The meeting link was circulated to all the registered participants one day before the commencement of the FDP through their e-mail and also through the WhatsApp group.

DETAILS OF RESOURCE PERSONS

Day1- Session 1: Dr.M.Venkatakirthiga,
Associate Professor/EEE
National Institute of Technology, Trichy

Day1- Session 2: Dr.M.Meenalochani
Assistant Professor/EEE
Kings College of Engineering

Day 2- Session 1: Dr.R.Arulraj
Assistant Professor/EEE
Kings College of Engineering

Day 2- Session 2: Dr.N.Kumarappan, Chair, IEEE Madras Section
Professor/EEE
Annamalai University

DAY 1(8.11.2021)

The FDP was inaugurated at 9.45 A.M on 8th November 2021. The Chief Guest to the session was Dr.N.Kumarappan, Chair, IEEE Madras Section. Dr.M.Meenalochani, coordinator of the FDP welcomed the dignitaries and participants. Dr.J.Arputha Vijaya Selvi, Principal of KCE delivered the Presidential Address. In her address, she highlighted the importance of smart grid and the role of smart grid in India. The inaugural address was given by Dr.N.Kumarappan. In his address, he appreciated Kings College of Engineering for organizing such a program and welcomed all the enthusiastic participants. He explained the emergence of different types of electric grids such as micro grids, nano grids, super grids and gave an introduction to smart grid technology. He also stated that success of an FDP lies in the dissemination of knowledge gained by faculty to their students in an efficient manner.

Then the session was handed over to the Resource person Dr.M.Venkatakirthiga ,Associate Professor/EEE, NIT, Trichy. She gave an introduction to distributed generation and microgrids. She also detailed about the architecture and modes of operation of microgrids. A microgrid is a group of interconnected loads and distributed energy resources within clearly defined electrical boundaries that acts as a single controllable entity with respect to the grid. A microgrid can connect and disconnect from the grid to enable it to operate in both grid-connected or island-mode. She lectured on the concepts of smart grid, its components and a brief introduction to electric vehicles. The session ended at 12.30 P.M.

The next session was started at 2.00 P.M. The resource person for session 2 was Dr.M.Meenalochani, AP/EEE, Kings College of Engineering. The topic of her presentation was Artificial Intelligence (AI) in smart grid. She gave an overview of human intelligence and the concepts of AI. She highlighted the real time examples of AI applications used in websites such as Amazon, Facebook, Netflix etc. where the AI based systems give recommendations to human

beings based on their search. Then, she briefed her lecture on different AI techniques such as Artificial Neural Networks, fuzzy logic, computer vision, machine learning, deep learning etc. and detailed on fuzzy logic. She explained in detail about the basics of fuzzy logic, difference between fuzzy and conventional Boolean logic and the similarity between fuzzy logic and human reasoning. Finally, she concluded with the advantages and applications of fuzzy logic in real time. The session ended at 3.30 P.M.

Day 2(9.11.2021)

On the second day, the forenoon session was started at 10.00 A.M. The resource person for session 3 was Dr.R.Arulraj, AP/EEE, Kings College of Engineering. The topic of his presentation was optimization techniques. He lectured on the basics of optimization and how to solve any optimization problem. He explained real time applications of optimization problems and the methods for solving those problems. He detailed on the terminology in optimization such as objective function, decision variables, constraints etc. with examples. He provided an in-depth knowledge on formation of objective function for any optimization problem. He gave an introduction to genetic algorithm for solving an optimization problem. The session ended at 11.30 A.M.

The afternoon session started at 2.00 P.M. The resource person was Dr.N.Kumarappan, IEEE MAS Chair and Professor/EEE, Annamalai University. He delivered his lecture on grid to vehicle integration using hybrid optimization techniques. He clearly explained the bidirectional transfer of power in interconnected systems. The participants were taught about the basics of hybrid optimization algorithm used for vehicle to grid power transfer. The hybrid algorithm utilizes the benefits of Tabu search as well as binary Particle Swarm Optimization. The algorithm aims to reduce the operating cost and emissions and increase the reserving capacity of the vehicle. The session finally ended up at 3.30 P.M. Mr.T.Pasupathi, AP/ECE and IEEE SB In-charge, delivered Vote of thanks for the FDP.

OUTCOMES

- Participants are enhanced with the knowledge on smart grid and the latest innovations in Smart Grid
- The content knowledge of the participants in the respective domain is updated
- Faculty can be able to make the students aware in smart grid and guide them for doing projects in that area

J. Praveen
15/11/2021

Utilization Certificate

Name of the Institute : Kings College of Engineering
Branch Code : STB16621

Certified that out of the grant-in-aid of Rs. **10,000/- (Rupees Ten Thousand only)** sanctioned by the IEEE Madras Section for organizing **FDP on Smart Grid : Trends and Future Perspective** during the Financial Year 2021-22 as per email dt. 17.08.2021, a sum of Rs. **10,000/- (Rupees Ten Thousand only)** has been utilized for the purpose for which it was sanctioned, and the balance of **Rs. 0.00/-** remained unutilized at the end of the year 2021-22.

J. Arputha Selvi
12/11/2021

Signature of Student Branch Counselor
Name: Dr. J. Arputha Vijaya Selvi
Designation: Professor / ECE

A. Albert Martin Ruban

Signature of the Treasurer
Name Dr. A. Albert Martin Ruban
Assoc. Professor & Head / EEE

IEEE 16621 SBC
Kings College of Engineering
Punalkulam - 613 303.

J. Arputha Selvi
12/11/2021

Signature of Head of the Institute
Name: Dr. J. Arputha Vijaya Selvi
Designation: Principal

Place : Punalkulam
Date : 12.11.2021

PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303,



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
IEEE sponsored FDP on "Smart Grid- Trends and Future Perspective"

Dates: 8.11.21 and 9.11.21

Details of Remuneration

Resource Person details	Mode of Transfer	Amount
Dr.M.Venkatakirthiga, Assoc.Prof/EEE, NIT Trichy	Online Transfer	Rs.3,500/-
Dr.N.Kumarappan, Prof/EEE, Annamalai University	Online Transfer	Rs.3,500/-
Dr.M.Meenalochani, AP/EEE, Kings College of Engineering	Cash-Voucher	Rs.1,500/-
Dr.R.Arulraj AP/EEE, Kings College of Engineering	Cash-Voucher	Rs.1,500/-
Total		Rs. 10,000/-

el. el. el.
 15/11/21
CO-Ordinator

J. Praveen
 15/11/2021

Principal



தமிழ்நாடு அறிவியல் தொழில்நுட்ப மாநில மன்றம்

TAMIL NADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

(Established by Government of Tamilnadu)

Directorate of Technical Education Campus, Chennai – 600 025

Ph : 044-22301428, Telefax : 044-22301552 www.tanscst.nic.in

Dr.R.Srinivasan, M.Sc., Ph.D.,F.I.C.S., M.A.C.S.(USA),
Member Secretary

Lr.No.TNSCST/SPS/2021-2022/

11.03.2022

To
The Principal
Kings College of Engineering
Punalkulam, Pudukkottai-613303



To
RND
J. Nisanjan
24/3/2022

Sir/Madam,

Sub: TNSCST – Student Project Scheme (2021-2022) – approval intimation–grant release- reg.

With respect to the above scheme, the list of projects approved by the State Council is enclosed along with terms and conditions. You are requested to adhere to terms and conditions such as submission of UC and seminar paper in time.

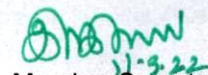
No	Guide Name and Institutional Address	Title of the Project	Students Name	Project Code	Amount
1	Mr.S.Desikan Assistant Professor, Dept. of Mechanical Engineering Kings College of Engg Pudukkottai-613303	Design and Fabrication of Automatic Urinal Flushing System	R.Karthikeyan D.Akashraja S.Fazilahamed M.Kailashkumar	EME-1040	7500/-
2	Ms.R.Buvaneshwari Assistant Professor, Department of Civil Engineering Kings College of Engg Pudukkottai-613303	Comparative Study Of Normal Paver Block With Partial Replacement Of Sand by Saw Dust	A.Patrick Antony Samy, S.Chandru, A.Joshi	ECV-431	7500/-
	Dr.R.Arulraj Assistant Professor, Dept. of EEE Kings College of Engg Pudukkottai-613303	Optimal distributed generation planning in distribution network using efficient evolutionary algorithm	S.Chandra kumar G.Santhosh G.Santhosh	EEE-1720	7500/-

Herewith enclosed the cheque for the approved grant and disburse the grant to the concerned students through the guides at the earliest.

Kindly send the utilisation certificate (format enclosed) and seminar paper (Ref.T&C-No.5&6) on completion of the project.

Thanking you,

Yours faithfully,


11.3.22
Member Secretary.

- Encl: a) Terms & Conditions (T&C)
b) Format of Utilisation Certificate (UC)
c) Cheque for Rs. 22,500/- No: 207214 dt:11.03.2022

Copy to: The individual guides

25.03.2022

Details of Amount Received from TNSCST

We have received a sum of Rs. 22,500/- towards student project TNSCST, Chennai as detailed below

From / Date / Cheque No	Dept.	Purpose	Amount
TNSCST, Chennai 11.03.2022 207214	Civil	Comparative study of normal paver block with partial replacement of sand by saw dust	7500.00
	EEE	Optimal distributed generation planning in distribution network using efficient evolutionary algorithm	7500.00
	MECH	Design and fabrication of automatic urinal flushing system	7500.00
Total			22500.00

In this regard, we request you to kindly permit us to withdraw the amount from the SB account and disperse to the students.

Thank you,

Regards,

[Signature]
25/03/2022

[Signature]
25/3/2022

[Signature]
25/3/2022

[Signature]
25/3/22

I. Niranian Samuel



Branch : DOTE CAMPUS
DOTE OFFICE BUILDINGS
GUINDY, CHENNAI
IFS Code :IDIB000D050

A/c. Payee Only

VALID FOR THREE MONTHS ONLY

1 1 0 3 2 0 2 2
D D M M Y Y Y Y

PAY The Principal, Kings College of Engineering, Punalakulam

या धारक को OR BEARER

JPEES रुपये Twenty two thousand five hundred only

अदा करें ₹ 22,500/-

खा. सं. A/c No. SB 479135159

FOR MEMBER SECRETARY, TAMILNADU STATE COUNCIL SCIENCE & TECHNOLOGY

CBS Code: 01636

[Signature]

AUTHORISED SIGNATORY

Please sign above

PAYABLE AT PAR AT ALL OUR BRANCHES

992000090

⑈ 207214 ⑈ 600019119⑈ 135159 ⑈ 31

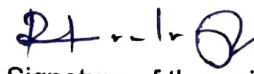
TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
DOTE CAMPUS, CHENNAI - 600 025

STUDENT PROJECT SCHEME 2021-2022
UTILISATION CERTIFICATE

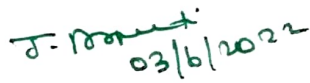
(TWO COPIES)

1. Name of the guide and address : Dr. R. Anubraj,
Assistant Professor, Department of EEE,
Kings College of Engineering,
Punalkulam - 613 303.
2. Name of the student(s) : S. Chandra Kumar,
G. Santhosh,
G. Santhosh.
3. Title of the project : Optimal distributed generation
Planning in distribution network using
efficient evolutionary algorithm.
4. Project code : EEE - 1720

It is certified that a sum of Rs. 7,500/- (Rupees Seven Thousand Five Hundred) Sanctioned by the council for carrying out above mentioned student project has been utilized for the purpose for which it was sanctioned and sum of Rs. 0/- (zero).....remaining unutilized is refunded.

 2/6/22
Signature of the guide

 2/6/22
Signature of the HOD

 03/6/2022
Signature of the
REGISTRAR/PRINCIPAL/DEAN
With SEAL

PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303.

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
DOTE CAMPUS, CHENNAI - 600 025

STUDENT PROJECT SCHEME 2021 -2022
UTILISATION CERTIFICATE


(TWO COPIES)

1. Name of the guide and address : Ms. R. Balasubramani
Asst Professor
Department of Civil Engineering
Kings College of Engineering
Puducherry - 605 005
2. Name of the student(s) : A. PRITHVI ANANDH, SUDH,
S. CHANDRU
A. JOSEPH
(IV. V & CIVIL)
3. Title of the project : Comparative Study of Normal beam
Block with Partial Displacement of
Sand by Saw dust
4. Project code : ECV-431

It is certified that a sum of Rs. 7500/- (Rupees Seven Thousand and Five Hundred only) Sanctioned by the council for carrying out above mentioned student project has been utilized for the purpose for which it was sanctioned and sum of Rs. 0/- (ZERO) remaining unutilized is refunded.


Signature of the guide 19/01/2022


Signature of the HOD 19/01/2022


Signature of the
REGISTRAR/PRINCIPAL/DEAN
With SEAL
PRINCIPAL
Kings College of Engineering,
PUNALKULAM - 613 303.



TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY
DOTE CAMPUS, CHENNAI - 600 025

STUDENT PROJECT SCHEME 2021-2022
UTILISATION CERTIFICATE

(TWO COPIES)

1. Name of the guide and address : Mr. S. Desikan, Assistant Professor,
Department of Mechanical Engineering,
Kings College of Engineering,
Punalkulam - 613303
2. Name of the student(s) : R. Karthikeyan
D. Akash Raja
S. Fasil Ahmed
M. Kailash Kumar.
3. Title of the project : Design and Fabrication of
automatic urinal flushing system.
4. Project code : EME 1040

It is certified that a sum of Rs. 7500/- (Rupees ^{Seven thousand & five hundred.}) Sanctioned by the council for carrying out above mentioned student project has been utilized for the purpose for which it was sanctioned and sum of Rs.(Zero).....remaining unutilized is refunded. 0/-

SFA = 103.06.22
Signature of the guide

T. Panthony 3/6/22
Signature of the HOD

S. Panthony
3/6/2022
Signature of the
REGISTRAR/PRINCIPAL/DEAN
With SEAL
PRINCIPAL
Kings College of Engineering.
PUNALKULAM - 613 303.