



**Alva's Institute of Engineering and Technology**

Shobhavana Campus, Mijar-574 225, Moodbidri, D.K.

**DEPARTMENT OF PHYSICS**

Date: August 7, 2017

From,

Head of the Department

Department of Physics

Alva's Institute of Engineering and Technology

Mijar

To,

The Principal

Alva's Institute of Engineering and Technology

Shobavana Campus

Mijar

Dear Sir,

Subject: Request for permission to conduct Workshop on Research Methodology in Physics

As we discussed in our departmental meeting we have decided to conduct a Workshop on Research Methodology in Physics. Since we have many physics faculty in our neighbouring institutes of Mangalore-Udupi region, this workshop will greatly help both registered and unregistered PhD candidates of applied sciences. We would like to conduct this work shop September 29-30, 2017

I request to approve this workshop.

Yours sincerely

HOD  
H. O. D.

Dept. Of Physics

Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225



**Alva's Institute of Engineering and Technology**  
Shobhavana Campus, Mijar-574 225, Moodbidri, D.K.

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Date: August 21, 2017

To,

Dr. Siddhartha P Duttagupta  
Associate Professor  
Room no 110-A  
1st Floor EE-Annexe, Electrical Engineering  
IIT Bombay, Powai  
Mumbai 400 076 India

Dear Dr. Siddhartha P Duttagupta,

Subject: Invitation for guest talks on Research Methodology in Physics

We are organising a Workshop on Workshop on Research Methodology in Physics. during September 29-30, 2017. This workshop will greatly help many physics faculty in our neighbouring institutes of Mangalore-Udupi region

As a Researcher who has contributed significantly R & D, the organizing committee feels that we will be greatly honoured with your participation in the workshop. I would therefore like to take this opportunity to invite you to participate in the workshop and deliver an invited lecture. We will be happy to provide local hospitality during the workshop.

We are looking forward to hearing from you.

Thanking You  
With warm regards

PRINCIPAL

Alva's Institute of Engg. & Technology,  
Mijar. MOODBIDRI - 574 225, D.K.



**Alva's Institute of Engineering and Technology**

Shobhavana Campus, Mijar-574 225, Moodbidri, D.K.

Date: August 21, 2017

To,

Dr. Achanta Venu Gopal,  
Associate Professor  
DCMP & MS, Tata Institute of Fundamental Research,  
Homi Bhabha Road, Colaba, Mumbai 400005,

Dear Dr. Achanta Venu Gopal,

Subject: Invitation for guest talks on Research Methodology in Physics

We are organising a Workshop on Research Methodology in Physics during September 29-30, 2017. This workshop will greatly help many physics faculty in our neighbouring institutes of Mangalore-Udupi region.

As a Researcher who has contributed significantly R & D, the organizing committee feels that we will be greatly honoured with your participation in the workshop. I would therefore like to take this opportunity to invite you to participate in the workshop and deliver an invited lecture. We will be happy to provide local hospitality during the workshop.

We are looking forward to hearing from you.

Thanking You  
With warm regards

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Mijar, MOODBIDRI - 574 225, D.K.

## About Resource persons



Dr. Siddhartha Prakash Duttgupta obtained BTech (Honours) in Electronics from IIT Kharagpur, India, and PhD from University of Rochester, Rochester, New York, USA (dissertation title: Porous Silicon based Optoelectronic Integrated Devices- Materials characterization, Fabrication and Testing). Research effort is focused on (i) Micro, Nano-fabricated devices- optimization and application, and (ii) Integrated Electronic Systems- design and deployment. The cumulative impact of 112 publications is reflected in 3003 citations and an h-index of 21 and i-10 index of 32 (ref. Google Scholar, July 15, 2015). Dr Duttgupta holds one US patent (2015) and has filed for more than 20 patents in Micro, Nano-scale Sensors and Actuators and in Green Power Circuits and Systems. He has also authored five monographs which cover aspects of platform technology development in Ambulatory ECG Monitoring, Precision Cooled High Performance Computing, and Micro Fuel Cells. Dr. Duttgupta has been actively involved in the development of Research Centers of Excellence in the USA and in India. Single PI led on-going research is being sponsored by agencies such as the AOARD (US Army), DRDO (India), Nipro (Japan), and Tata Consultancy Services. Partner organizations include Tata Institute for Fundamental Research (Mumbai, India), Monash University (Melbourne, Australia), Center for Materials for Electronics Technology (Pune, India), Tata Consultancy Services (Mumbai), and Center for Nanoscience and Nanotechnology (Mumbai University)



Dr. Venu Gopal Achanta currently works at the Department of Condensed Matter Physics and Material Science, Tata Institute of Fundamental Research. Venu Gopal does research in Materials Physics, Materials Science and Optics. Their current project is Plasmonics. his Research interests are Planar architectures for information processing based on a combination of metal-dielectric and all-dielectric metamaterials and photonic structures. Broadband metamaterials, plasmon dynamics and plasmon mediated modulation of material properties.



REGISTRATION FORM

A Workshop on  
**Research Methodology in Physics**  
**(RMP-2017)**

September 29-30, 2017

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

Mobile: \_\_\_\_\_

Fax: \_\_\_\_\_

Draft/Cheque No.: \_\_\_\_\_

Dated: \_\_\_\_\_

Drawn on (Bank): \_\_\_\_\_

Signature of the Head of the Institution  
Applicant

**Chief Patron**

**Sri Mohan Alva**

Chairman-Alva's Education Foundation

**National Advisory Committee**

Prof. Manu S Multani, TIFR (retd.)

Prof. V R Palkar, IIT Bombay

Prof. Siddhartha Duttagupta, IIT Bombay

Dr. Nitin S Kale, Nanosniff Technologies

Prof. Lazar Mathew, Advisor, PSG IAS

Prof. P.R. Apte, IIT Bombay

Prof. V. Ramgopal Rao, IIT Bombay

Prof. Richard Pinto, IIT Bombay

**Organizing Committee**

**Organizing Chairman**

**Dr. Peter Fernandes**

Principal, AIET, Moodabidri

**Coordinator**

Dr. Jayarama A Dept. of Phy

**Members**

Dr. Shashikumar K, Dept. of Phy

Prof. Rajesh Kumar, Dept. of Phy

Mrs. Ashwini A.R, Dept. of AE

Dr. Basavaraju, Dept. of Che

Prof. Harish Kunder, Dept. of CSE

Dr. Ramaprasad, A.T. Dept. of Phy

**A Workshop**

on

**Research Methodology in Physics**  
**(RMP-2017)**

September 29-30, 2017

**Organized by:**

Department of Physics

**Alva's Institute of Engineering and Technology**



**Alva's Institute of Engineering and Technology**  
**Mijar, Shobhavana Campus, Moodabidri –**  
**574225**

Phone & Fax: 08258-262695, Email:  
prinicpal08@gmail.com

## About AIET

Alva's Institute of Engineering and Technology, Moodabidri is a dream child of the renowned Alva's Education Foundation and was established in the year 2007. The college is affiliated to VTU Belgaum, approved by AICTE, is one of the upcoming institution under the leadership of it's Chairman Dr. Mohan Alva. The institute has MoU's with many industries for the establishment of R &D competence for automation technologies and with premier institutes. The institute has world class infrastructure and state-of-art Lab facilities and it offers many UG & PG programs. The programs are backed by well equipped, state-of-the-art laboratories and enthusiastic as well as experienced staff.

### **UG Courses**

Civil Engineering  
Computer Science & Engineering  
Information Science & Engineering  
Electronics & communication Engineering  
Mechanical Engineering

### **PG Programs**

M.Tech in Mechanical Engg.  
M.Tech in VLSI & Embedded design  
M.Tech in Computer Science & Engg.  
Master of Business Administration(MBA)

## Scope of RMP-2017

This research methodology workshop is expected to help all the PhD research scholars specifically in physics of Alva's sister institutes and neighbouring institutions. The R & D centre at AIET with all facilities supported by Dr. Mohan Alva, Chairman, AIET and President of Alva's Education Foundation will help many PhD scholars and PG students to enhance their research knowledge towards the development of devices which have societal importance.

AIET has 2000 sq.ft research laboratory and will be the first institution to extend its research facilities to motivated research students in the undivided Dakshina Kannada district of Karnataka State. AIET also has plan to setup new research centre guidance of Prof. Richard Pinto, Professor in Electrical Engineering, Indian Institute of Technology - Bombay. The construction works of R & D CENTER, with an area of 4,000 square feet, has begun and it is expected to be completed by January 2018. The centre will have necessary equipments and infrastructure for advanced research.

This Research methodology workshop aims to demonstrate the steps involved to do effective research. This includes review of both fundamentals and advances in Science and Technology. The scope also includes a series of lectures on wide ranging topics which have tremendous applications. As part of this workshop an extensive simulation session will form the seed for simulation activity and simulation lab at AIET. The workshop will end with a brain-storming session followed by action plans for the creation of R & D CENTER at AIET.

## **Resource Persons**

Dr. Siddhartha P Duttgupta, IIT Bombay  
Prof. Achanta Venu Gopal , TIFR, Mumbai  
Dr. Richard Pinto, IIT Bombay  
Prof. V R Palkar , IIT Bombay  
Dr. Nitin S Kale, Nanosniff Technologies  
Prof. Manu S Multani, TIFR (retd.)  
Dr. Shriganesh Prabhu, TIFR Mumbai

### **Who can participate?**

Faculty from Academic Institutions  
Research Scholars and PG Students  
Engineers/Scientists from Industry and R & D centers

### **IMPORTANT DATES**

Last Date for Registration 15 Sept; 2017  
Intimation of Acceptance 20; Sept 2017

### **Registration Fee**

Research Scholars/PG Students :Rs. 200/-  
Faculty of Academic Institutions : Rs 500/-  
Researchers from Industries: Rs. 1000/-

### **Accommodation**

Accommodation will be provided based on the prior request.

*Duly filled Application should be sent to*

Dr. Ramaprasad, (Ph: +919449200658)  
RMP-2017  
AIET, Mijar, Shobhavana Campus, Moodabidri  
D.K District, Karnataka State-574225



**Alva's Institute of Engineering and Technology**  
Shobhavana Campus, Mijar-574 225, Moodbidri, D.K.

**DEPARTMENT OF PHYSICS**

Date: September 20, 2017

**Circular**

It is hereby informed all the Faculty members and research scholars to that there will be a Workshop on Research Methodology in Physics during September 29-30, 2017.

All are requested to attend and make use of this workshop

HOD H.O.D.  
Dept. Of Physics  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225



## **Report of a Workshop on Research Methodology in Physics**

Department of Physics of Alva's Institute of Engineering and Technology has organized a Workshop on Research Methodology in Physics RMP-2017 during September 29-30, 2017. Dr. Ramaprasad A.T was the coordinator of the workshop and Dr. Shashikumar was the sub-coordinator of the workshop. 28 participants from the various fields were the present during this workshop and most of the participants were Ph.D research scholars.

All the sessions were systematically arranged keeping in mind the need of the research scholars. The sessions were as follows:

### **Day 1**

Dr. Ramaprasad welcomed the participants and gave an introductory speech as well as introduced Dr. Siddhartha P Dutttagupta, IIT Bombay was the resource person of day I: Research culture and how to write journal papers. Dr. Ramaprasad A.T, Department of Physics of Alva's Institute of Engineering and Tecnology felicitated Dr. Siddhartha P Dutttagupta with a flower buckeye.

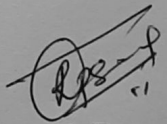


**Photograph of participants in Research Methodology Workshop**



**Day I:** A series of lecture on Online Literature Search was given by Dr. Siddhartha P Duttagupta. He started his session with few questions. The entire session was very enlightening as many things were new to the participants and this session gave an idea how to search online reaches. Sir talked about various online catalogues like a library catalogue, library of congress, union catalogue and Incat: Indian catalogue. He also explained how to search scholarly data – original search and literature review. He explained various search strategies – PICO search approach, phrase search, type of document search, google: advance search, In url: topic/phrase etc. Sir also talked about various search engines like meta search engine, google scholar, academic search, intelligent search engine, subject directories, open access to various journals and various video search engines..

**Day II:** Mixed Method Research which was taken by Prof. Achanta Venu Gopal , TIFR, Mumbai. Sir began his session with an interactive activity which helps the participants to know about their nature and characteristics. Sir discussed the social world and world view which means a basic set of beliefs that guide action. He also talked about positivism, constructivism, transformative and pragmatism. He explained the basic meaning of mixed method which applies both the quantitative and qualitative research methods. He also talked about the philosophy behind mixed method in pragmatism which is arises out of action, situations and consequences rather than antecedent conditions. He also discussed why mixed method and characteristics of mixed method.

  
H. O. D.  
Dept. Of Physics  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225

## List of Participants present in RMP-2017

Sl. No	Name	Address
1	Abhishek M S	Department of PG Physics, Alva's College Moodbidri - 574227, India
2	Aditya H	Department of PG Physics, Alva's College Moodbidri - 574227, India
3	Amrutha K M	Department of PG Physics, Alva's College Moodbidri - 574227, India
4	Archana N	Department of PG Physics, Alva's College Moodbidri - 574227, India
5	Arpitha B K	Department of PG Physics, Alva's College Moodbidri - 574227, India
6	Arun P S	Department of PG Physics, Alva's College Moodbidri - 574227, India
7	Ashwika	Department of PG Physics, Alva's College Moodbidri - 574227, India
8	Barghava H Patil	Department of PG Physics, Alva's College Moodbidri - 574227, India
9	Bhargav	Department of Physics, Alva's Institute of Engineering and Technology, Moodbidri
10	Bhavana N R	Department of PG Physics, Alva's College Moodbidri - 574227, India
11	Chaithra	Department of PG Physics, Alva's College Moodbidri - 574227, India
12	Chethana	Department of PG Physics, Alva's College Moodbidri - 574227, India
13	Dinesh Nandayya Naik	Department of PG Physics, Alva's College Moodbidri - 574227, India

*Abhishek M S*

*Aditya H*

*Amrutha K.M.*

*Archana N.*

*Arpitha B K*

*Arun P.S.*

*Ashwika*

*Barghava H.P.*

*Bhargav*

*BHAVANA N.R.*

*Chaithra M*

*Chethana*

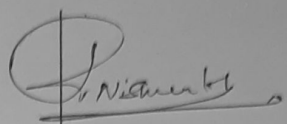
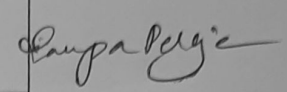
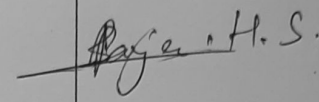
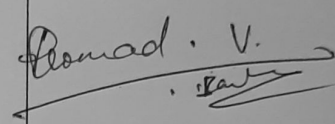
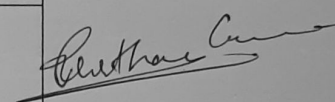
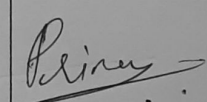
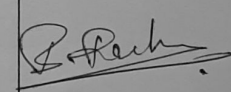
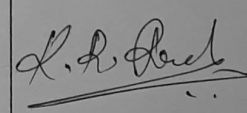
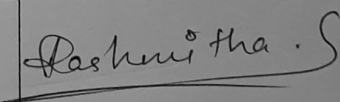
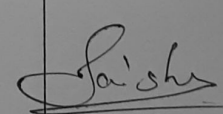
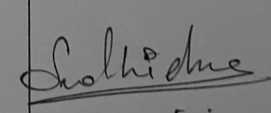
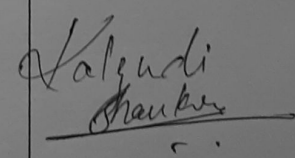
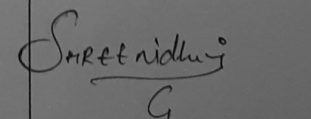
*Dinesh N*

14	Divya S D	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Divya S. D.</i>
15	Divyashree	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Divyashree</i>
16	Dr. Banuprakash M	Banuprakash M Dept of PG Physics Alva's college-574227 Moodbidre, Karnataka India Mob.no:8971437096	<i>Banuprakash</i>
17	Dr. Vijeesh Vijayan	Dr. Vijeesh Vijayan Assistant Professor Dept. of Mechanical Engg., NMAM Institute of Technology Nitte-574 110. Karnataka State INDIA Mob: +91- 9035107075	<i>Vijeesh</i>
18	Dr.SATYANARAYAN	Associate Professor and Head, Dept.of Mechanical Engineering Alva's Institute of Engineering and Technology (AIET) Shobhavana Campus, Mijar - 574 225 Moodbidri Mangalore, D.K District, Karnataka, India	<i>Satyanarayana</i>
19	Gayathri R G	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Gayathri R. G.</i>
20	Geetha Pai K	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Geetha Pai K</i>
21	Harish B R	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Harish B.R.</i>
22	Indu P	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Indu P.</i>
23	Jayaram Bhat	Jayaram Bhat Department of Mechanical Engineering Alva's Institute of Engineering and Technology, Moodbidri,	<i>Jayaram Bhat</i>

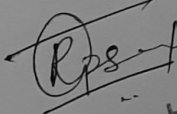


		574225	
24	Jeena Mary	Department of PG Physics, Alva's College Moodbidri - 574227, India	<u>Jeena Mary</u>
25	Jothsna M M	Department of PG Physics, Alva's College Moodbidri - 574227, India	<u>Jothsna</u>
26	Jyothi Basagondappa Aihole	Department of PG Physics, Alva's College Moodbidri - 574227, India	<u>Jyothi</u>
27	K S Akshatha Acharya	Department of PG Physics, Alva's College Moodbidri - 574227, India	<u>Akshatha acharya</u>
28	Kavya M N	Department of PG Physics, Alva's College Moodbidri - 574227, India	<u>Kavya</u>
29	Madhushree K S	Department of PG Physics, Alva's College Moodbidri - 574227, India	<u>Madhushree</u>
30	Malashri M	Department of PG Physics, Alva's College Moodbidri - 574227, India	<u>Malashri</u>
31	Manasvi G C	Department of PG Physics, Alva's College Moodbidri - 574227, India	<u>Manasvi G. C.</u>
32	Megha K C	Department of PG Physics, Alva's College Moodbidri - 574227, India	<u>Megha K. C.</u>
33	Mr. Mahadevareddy	Research scholar SIT Tumkur 9902330893	<u>Mahadevareddy</u>
34	Mrs. Charishma	Charishma Department of Electronics & Communication Engg, NMAM Institute of Technology, NITTE, India.	<u>Charishma</u>
35	Nandini K S	Department of PG Physics, Alva's College Moodbidri - 574227, India	<u>Nandini</u>



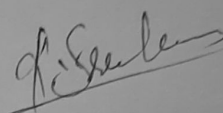
36	Nishmitha R Murthy	Department of PG Physics, Alva's College Moodbidri - 574227, India	
37	Pampa Peraje	Department of PG Physics, Alva's College Moodbidri - 574227, India	
38	Pooja H S	Department of PG Physics, Alva's College Moodbidri - 574227, India	
39	Pramod V Badyankal	Department of Mechanical Engineering, Alva's Institute of Engineering and Technology, Mijar-574226	
40	Preetham Castelino	Department of PG Physics, Alva's College Moodbidri - 574227, India	
41	Princy N P	Department of PG Physics, Alva's College Moodbidri - 574227, India	
42	Rashmi B	Department of PG Physics, Alva's College Moodbidri - 574227, India	
43	Rashmi K.R	Department of Physics Alva's Institute of Engineering and Technology, Moodbidri, 574225	
44	Rashmitha S	Department of PG Physics, Alva's College Moodbidri - 574227, India	
45	Saishree	Department of PG Physics, Alva's College Moodbidri - 574227, India	
46	Shalmali Sudhindra	Department of PG Physics, Alva's College Moodbidri - 574227, India	
47	Shankarappa Kalgudi	Satyanarayan Dept. of Mechanical Engg, Alva's Institute of Engineering and Technology, Moodbidri, Karnataka, India	
48	Shreenidhiraj Shetty G	Department of PG Physics, Alva's College Moodbidri - 574227, India	

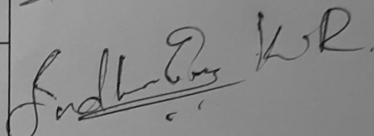
49	Shruthi L Thingalaya	Department of PG Physics, Alva's College Moodbidri - 574227, India
50	Sowmyashri	Department of PG Physics, Alva's College Moodbidri - 574227, India
51	Sreelakshmi K	Department of PG Physics, Alva's College Moodbidri - 574227, India
52	Sudharshan K R	Department of PG Physics, Alva's College Moodbidri - 574227, India
53	Sunil Kumar M	Research Scholar, Visvesvaraya Technological University, RRC, Belgaum, Karnataka, India
54	Sushma B	Department of PG Physics, Alva's College Moodbidri - 574227, India
55	Swarnagowri	Department of PG Physics, Alva's College Moodbidri - 574227, India
56	Yashwanth G A	Department of Physics, DVS college of Arts and Science, Shivamogga-577202, India
57	Yedukrishnan P	Department of PG Physics, Alva's College Moodbidri - 574227, India

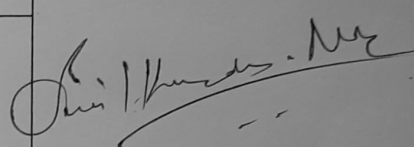
  
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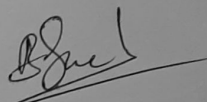


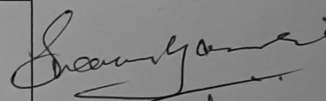


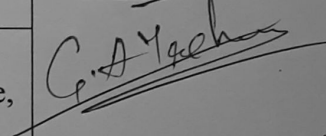


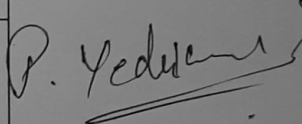














**Alva's Institute of Engineering and Technology**  
Shobhavana Campus MLJAR, Moodbidri, Mangalore, Karnataka 574225

## ***Certificate of Participation***

This is to certify that \_\_\_\_\_

\_\_\_\_\_

has participated in a Workshop on Research Methodology in Physics RMP-  
2017 held on September 29-30, 2017

\_\_\_\_\_  
**Principal**

\_\_\_\_\_  
**Coordinator**

PRINCIPAL

Alva's Institute of Engg. & Technology  
MLJAR, MOODBIDRI - 574 225, D.K.