



Alva's Institute of Engineering and Technology

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

DEPARTMENT OF PHYSICS

Date: August 23, 2018

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

Shobhavana Campus

Mijar

Dear Sir,

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

As we discussed in our departmental meeting we have decided to conduct a Workshop on Research Methodology in Applied Sciences. 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 November 23-24, 2018

I request to approve this workshop.

Yours sincerely

H. O. D. HOD

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.

Date: August 30, 2018

To,

Dr. Raghavendra Bairy
Associate Professor
Department of Physics
N.M.A.M. Institute of Technology, NITTE .
Udupi District, Karnataka-574 110

Dear Dr. Raghavendra Bairy,

Subject: Invitation for guest talks on Research Methodology in Applied Sciences

We are organising a Workshop on Research Methodology in Applied Sciences during November 23-24, 2018. This workshop will greatly help many Engineering science 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

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 30, 2018

To,

Dr. Raviprakash Y
Associate Professor
Department of Physics
MIT, MAHE, Manipal
Karnataka, India 576104

Dear Dr. Raviprakash Y,

Subject: Invitation for guest talks on Research Methodology in Applied Sciences

We are organising a Workshop on Research Methodology in Applied Sciences during November 23-24, 2018. This workshop will greatly help many Engineering science 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.

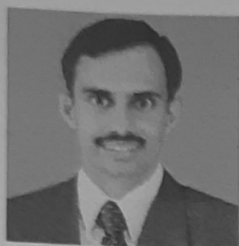
Thanking You
With warm regards

Principal

PRINCIPAL

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

About Resource persons



Dr. Raghavendra Bairy has more than 10 years of hands on experience in engineering and fabricating metallic/magnetic/polymer thin films by sputtering, spray pyrolysis, vacuum deposition and spin coating. These were then characterized by temperature dependent four probe resistivity measurement, XRD, EDAX, SEM, TEM, UV-visible, FTIR, FT-Raman, TGA/DTA, DSC and AFM. PI also has experience in characterizing nonlinear optical behavior including optical limiting (OL) studies and in the theoretical calculations such as MOPAC for hyper-polarizability calculations in connection with second & third harmonic generation (SHG/THG) measurement of materials. He has published 21 articles in peer reviewed journals. Presently he is working as Assistant Gd II at NMAM Institute of Technology nitte.



Dr. Raviprakash has done his master's degree in Physics from Mangalore University (2000), PhD from National Institute of Technology [NITK] Surathkal in the area of thin films fabrication(2010), Presently working as Asst. Professor-Selection Grade at Dept. of Physics, at Manipal Institute of Technology [M. I. T.], MAHE Manipal. His research areas are Thin film fabrication for device applications, Solar Photovoltaics and processing of rare earth doped glasses. Dr. Raviprakash received number of research grants worth around 50 lakhs from BRNS, Dept. of Atomic energy, Dept. of Science and Technology, Govt of India. Dr. Raviprakash received Seed Money to Young Scientist Award [Rs. 5 lakh] from VGST, Govt. of Karnataka in 2017. He has total 19 years of teaching experience. He has received Best Teacher Award from MIT Manipal in 2014. He has Co-Authored a book on "First year PUC Physics" , Based on NCERT syllabus. He has guided one PhD student, 10 M.Sc Projects, and presently guiding three PhD students and one P.G. student. He has published more than 15 research papers in reputed International journals. He is a certified National level trainer on "Research based pedagogical tools" by IISER Pune, British council and Sheffield Hallam University, UK. Recently he is appointed as Assistant Director-Academic at M I T manipal. His special interests include reading spiritual and personality development books, anchoring programs, giving motivational talks to students and public, counseling the students etc. He conducts workshop on Key to success, Career Guidance, Public speaking, Effective Teaching Techniques etc.

REGISTRATION FORM

A Workshop on
Research Methodology in Applied Sciences
(RMAS-2018)

November 23-24, 2018

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

A Workshop
on

Research Methodology in Applied Sciences (RMAS-2018)

November 23-24, 2018

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:
prinicipal08@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 RMAS-2018

This research methodology workshop is expected to help all the PhD research scholars specifically in applied sciences of Alva's institutes and neighbouring institutions of mangalore and udupi region. 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 of applied sciences 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 has received funding from different government funding agencies. The centre will have necessary equipments and infrastructure for advanced research in the near future.

This Research methodology workshop aims to easier to solve research problems in applied sciences. 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 implementation of industry related R & D research projects.

Resource Persons

Dr. Ravi[prakash Y, MIT Manipal
Dr. Richard Pinto, IIT Bombay
Prof. Rajesh Rai , AJIET, Mangalore
Dr. Raghavendra Bairy, NMAMIT, Nitte
Prof. Manu S Multani, TIFR (retd.)
Dr. Shriganesh Prabhu, TIFR Mumbai
Dr. Siddhartha P Duttgupta, IIT Bombay
Prof. Achanta Venu Gopal , 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 Nov; 2018
Intimation of Acceptance 20; Nov 2018

Registration Fee

Research Scholars/PG Students :Rs. 300/-
Faculty of Academic Institutions : Rs 600/-
Researchers from Industries: Rs. 1000/-

Accommodation

Accommodation will be provided based on the prior request.

Duly filled Application should be sent to

Dr. Jayarama A, (Ph: +919611945201)
RMAS-2018
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: November 12, 2018

Circular

It is hereby informed all the Faculty members and research scholars to that there will be a Workshop on Research Methodology in Applied Sciences during November 23-24, 2018.

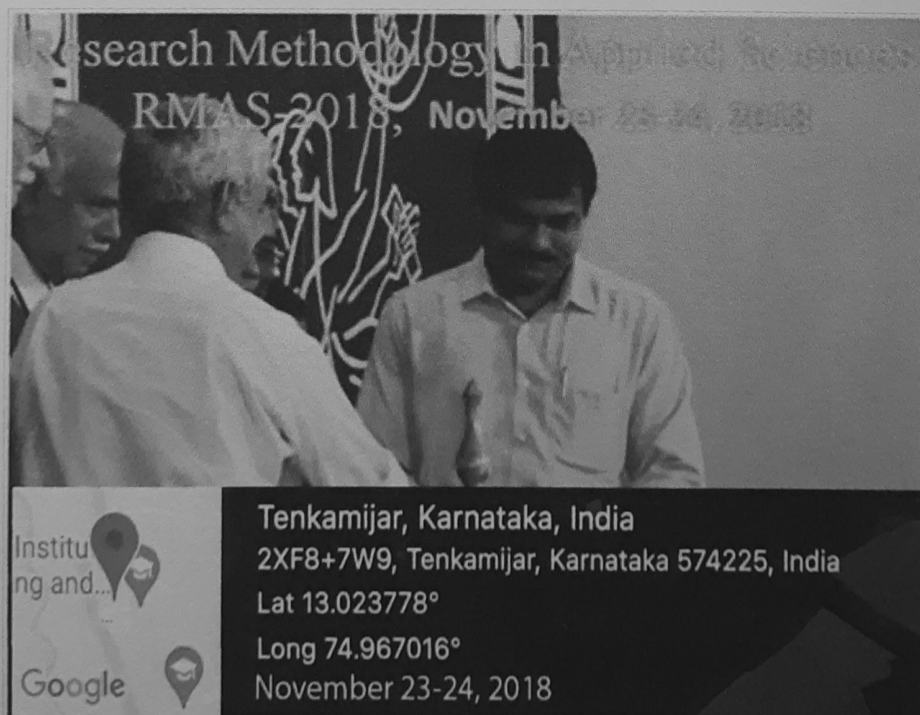
All are requested to attend and make use of this workshop

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 Applied Sciences

Department of Physics of Alva's Institute of Engineering and Technology has organized a Workshop on Research Methodology in Applied Sciences RMAS-2018 during November 23-24, 2018 . Dr. Jayarama A. was the coordinator of the workshop and Dr. Shashikumar was the sub-coordinator of the workshop. 38 participants from the various disciplines of applied sciences were the present during this workshop and many of the participants were research scholars. All the sessions were systematically arranged keeping in mind the need of the research scholars. The sessions were as follows:

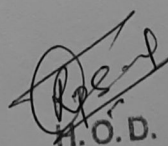
Dr. Ramaprasad, Head physics dept. welcomed the participants and gave an introductory speech as well as introduced Dr. Raghavendra Bairy, NMAMIT Nitte was the resource person of day I: Research culture and how to write journal papers. Dr. Ramaprasad A.T, Department of Physics of Alva's Institute of Engineering and Technology felicitated Dr. Raghavendra Bairy with a buckeye.



Photograph of Inaugural Session of RMAS-2018 workshop

Day I: A series of lecture on Qualitative Research was taken by Dr. Raghavendra Bairy Sir started his session with the meaning of research which means to describe, explore and explain. Sir also talked about paradigm, worldview and shared understanding of reality. He also discussed the difference between quantitative and qualitative. He explained the sampling techniques of qualitative method- purposive and theoretical. He talked about the types of qualitative research – grounded theory design, narrative research, ethnography, ethnomethodology, phenomenological research and case study.

Day II: Research Hypothesis which was taken by Dr. Raviprakash Y, MIT Manipal. The entire session was filled with simple and beautiful examples which were easily understandable by the participants. Sir began with the meaning of hypothesis which means an intelligent guess or prediction that gives a direction to the researcher to answer his research question. He also talked about the contribution of hypothesis in the research study i.e. it gives clarity to the research problem, describes explains and predicts the expected results or outcomes, indicates the types of research, describe research design, identifies the population of the study, facilitates data collection, data analysis and data interpretation. He also explained types of hypothesis – research hypothesis, null hypothesis and testable hypothesis. He also discussed the types of variables- independent, dependent, demographic, extraneous and environmental.



H.O.D.
Dept. Of Physics
Alva's Institute of Engg. & Technology
Mijar, MOODBIDRI - 574 226

List of Participants present RMAS-2018

Sl. No	Name	Address
1	Abhilash D	Department of PG Physics, Alva's College Moodbidri - 574227, India <i>Abhilash D</i>
2	Amrutha N S	Department of PG Physics, Alva's College Moodbidri - 574227, India <i>Amrutha</i>
3	Ananya Nagesh Bhat	Department of PG Physics, Alva's College Moodbidri - 574227, India <i>Ananyanagesh Bhat</i>
4	Anchaleen Pius	Department of PG Physics, Alva's College Moodbidri - 574227, India <i>Anchaleen Pius</i>
5	Anjali Kuriakose	Department of PG Physics, Alva's College Moodbidri - 574227, India <i>Anjalikuriakose</i>
6	Anju P C	Department of PG Physics, Alva's College Moodbidri - 574227, India <i>P.C. anju</i>
7	Anubhab Sahoo	Anubhab Sahoo 1 Indian Institute of Technology, Madras -600036, India <i>Sahoo</i>
8	Anusha B M	Department of PG Physics, Alva's College Moodbidri - 574227, India <i>B. Manusha</i>
9	Anvay Hebbar A	Department of PG Physics, Alva's College Moodbidri - 574227, India <i>Anvay Hebbar</i>
10	Ashwini P R	Department of PG Physics, Alva's College Moodbidri - 574227, India <i>P.R. Ashwini</i>
11	Basavadeepthi G N	Department of PG Physics, Alva's College Moodbidri - 574227, India <i>Basavadeepthi</i>
12	Chaithanya	Department of Physics, Alva's College Moodbidri - 574227, India <i>Chaithanya</i>

13	Dr. Dayanand GK	Department of Electronics & Communication Engineering Canara Engineering College Benjanapadavu Mangalore Ph:0824-2278666/67/68(Ext:149) Mo:+919880286704
14	Dr. Raviprakash Y	Semiconductors and Photovoltaic Lab, Dept. of Physics Manipal Institute of Technology, Manipal Academy of Higher Education[MAHE], Manipal-576 104, India
15	Dr. Udaya	Udaya Associate Professor, Department of Mechanical Engineering, NMAMIT Nitte-574 110 E-mail: udaya_d@nitte.edu.in Ph.no:9964586266
16	Ganashree B S	Department of PG Physics, Alva's College Moodbidri - 574227, India
17	Ganga Veni	Department of Physics, Alva's College Moodbidri - 574227, India
18	Harijit C Sudhakar	Department of PG Physics, Alva's College Moodbidri - 574227, India
19	Jyothsna	Department of PG Physics, Alva's College Moodbidri - 574227, India
20	K.V.Suresh	AIET,Moodbidri
21	Karthik Rao	Department of PG Physics, Alva's College Moodbidri - 574227, India
22	Mr. Amith.V	Research Scholar Department of Mechanical Engineering R.V. College of Engineering, Bengaluru Mobile - 9686469442
23	Mr. Sandesh Kumar Rai	Mechanical dept. Canara engineering college Mangalore Ph: 9945925101

24	Ms. Srushti Shetty S	Srushti Shetty, . S Department of Physics, Alva's College Moodbidri - 574227, India.	<i>Srushti Shetty</i>
25	Nikhitha S	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Nikhitha S</i>
26	Parthavee Jain M	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Parthavee Jain M</i>
27	Prashant N Adiseri	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Prashant N Adiseri</i>
28	Prerana HS	Department of Physics, DVS college of Arts and Science, Shivamogga-577202, India	<i>H. S. P</i>
29	Ramya S Thantry	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Ramya S</i>
30	Sampath	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Sampath</i>
31	Sandra Thomas	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Sandra Thomas</i>
32	Sanjay S	Sanjay S Research Scholar, Sri Jayachamarajendra College of Engineering, Mysuru, Karnataka, India	<i>Sanjay S</i>
33	Shanthala	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Shanthala</i>
34	Siddhartha Jain	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Siddhartha Jain</i>
35	Sneha P V	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Sneha P. V</i>
36	Sphoorthy P Shetty	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Sphoorthy P Shetty</i>

37	Sushmitha Hegde	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>S. Hegde</i>
38	Sushmitha K J	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>K.J. Sushmitha</i>
39	Sushmitha S Salian	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>S. Salian</i>
40	Vandana H	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Vandana H</i>
41	Vijayalaxmi Manjunatha H	Department of Electronics, Mangalore University, Mangalagangothri-574199, Karnataka, India	<i>V. Jayalaxmi</i>
42	Vrinda Surendran V V	Department of PG Physics, Alva's College Moodbidri - 574227, India	<i>Vrinda</i>

[Signature]

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, Moodbidri, Mangalore, Karnataka 574225

Certificate of Participation

THIS IS TO CERTIFY THAT _____
_____ HAS PARTICIPATED IN
THE A WORKSHOP ON RESEARCH METHODOLOGY IN APPLIED SCIENCES
RMAS-2018 DURING NOVEMBER 23-24, 2018 HELD AT AIET MOODBIDRI

Principal

Coordinator

PRINCIPAL

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