



**Alva's Institute of Engineering & Technology**  
**Shobhavana Campus, Mijar, Moodbidri, D.K - 574225**  
Phone: 08258-262725, Fax: 08258-262726

**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

Date: 15/01/2017

Ref: AIET/2016-17/R&D/ECE/01

To

The Principal

Alva's Institute of Engineering and Technology

Mijar Moodbidri 574225

Respected Sir

**Sub: Requisition to conduct a FDP on Micro Electro Mechanical Systems for Research perspective.**

With reference to the above subject I request you to permit me to conduct a FDP on "Micro Electro Mechanical Systems for Research perspective" by Mr. Basavaraj Sheeparimatti, Professor, Basaveshwara Eng. College Bagalkot, Mr. Prashanth Hanasi, Professor, Jai College, Belagavi, in order to inculcate the research culture among the faculty on 16/01/2017 and 17/01/2017. Kindly oblige and do the needful.

Thanking you

HOD

Dr. D V Manjunatha

H. O. D.

Dept. Of Electronics & Communication  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225

PRINCIPAL

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



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**DEPT. OF ELECTRONICS & COMMUNICATION ENGINEERING**

Date: 15-01-2017

To,

**Mr. Basavaraj Sheeparimatti,**

**Professor, Basaveshwara Eng. College**

**Bagalkot**

Dear Sir,

**Sub:** Invitation for a FDP on "Micro electro mechanical systems for Research perspective".

I am pleased to have the honour of inviting you for a FDP on "Micro electro mechanical systems for Research perspective" for our institute technical activity. We have arranged your lecture at our institution on **16/01/2017 and 17/01/2017**.

Kindly accept our request as a guest speaker

Thanking You

With warm regards

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



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**DEPT. OF ELECTRONICS & COMMUNICATION ENGINEERING**

Date: 15-01-2017

To,

**Mr. Prashanth Hanasi**

**Professor, Jai College,**

**Belagavi,**

Dear Sir,

**Sub:** Invitation for a FDP on “**Micro electro mechanical systems for Research perspective**”.

I am pleased to have the honour of inviting you for a FDP on “**Micro electro mechanical systems for Research perspective**” for our institute technical activity. We have arranged your lecture at our institution on **16/01/2017 and 17/01/2017**.

Kindly accept our request as a guest speaker

Thanking You

With warm regards



Principal

**Alva's Institute of Engg. & Technology,**  
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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

Ref / ALET / 2016-17 / R20 C11 / ECE / 01

Date: 15/1/2017

## **Circular**

It is hereby informed all the Faculty members to that there will be workshop on "MEMS for Research Perspective" by Mr. Basavaraj Sheeparimatti, Professor, Basaveshwara Eng. College Bagalkot, Mr. Prashanth Hanasi, Professor, Jain College, Belagavi, Mr. Rajesh, Engineer, STD Bengaluru on 16/01/2017 and 17/01/2017. So all are requested to attend the same.

  
**Mr. Santhosh S**  
Technical Coordinator

  
**Dr. D V Manjunatha**  
H.O.D.  
H. O. D.  
Dept. Of Electronics & Communication  
Alva's Institute of Engg. & Technology  
Mijar, MOODBIDRI - 574 225

ALVA'S INSTITUTE OF ENGINEERING AND  
TECHNOLOGY

Dept. of Electronics and  
Communication Engineering



*Inaugural function of*  
Two days workshop  
On

**“Micro electro mechanical  
systems”**

29<sup>th</sup> December, 2014 @ 9.30 A.M

To,

**Alva's Institute of Engineering and Technology**  
**Dept. of Electronics and Communication Engineering**



*We cordially invite you to the Inaugural function of*

Two days workshop  
On

**“Micro electro mechanical systems”**

President:

**Dr. M. Mohan Alva**  
Chairman,  
AEF, Moodbidri.

Chief Guest:

**Basavaraj Sheeparimatti,**  
Professor,  
Basaveshwara Eng. College  
Bagalkot

Guest of Honor:

**Sri. Vivek Alva,**  
Management Trustee,  
AIET, Moodbidri.

Date:

**16/01/2017 @ 9.30A.M**

Convener  
**Dr.D.V Manjunatha**  
Sr. Professor,  
AIET, Moodbidri.

Principal  
**Dr. Peter Fernandes**  
AIET, Moodbidri.

HOD  
**Dr.D.V Manjunatha**  
Dept. of ECE,  
AIET, Moodbidri.



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## **Workshop on “Microelectro mechanical systems for Research perspective”**

### **Objective of the workshop**

The MEMS system exists today in many environments, agriculture, and automotive, medical, consumer, industrial and aerospace. Their potential for future tunneling into a broad range of applications is real, supported by progressive activities both by academia and industry in all streams of engineering. The development of MEMS is inherently interdisciplinary, necessitating an understanding of the fabrication methods. This FDP aims at providing the essence of Microelectronics and Micro Electro Mechanical Systems design using COSMOL Multiphysics Tools focusing on all engineering streams, so that, the faculty who attends this FDP should come out with their own project in MEMS.



**Fig: Inaugural Function MEMS workshop**

The multiphysics nature of MEMS devices requires that a system designer has a vast understanding and knowledge of these various branches of physics. Because some microscale effects are totally new or behave differently than at the macroscale, engineers require new system-design philosophies. They likely find it difficult to split one design into parts, which is common for



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macroscale device, where one engineer can fully study the mechanics while others concentrate, for instance, on the electrical or thermal aspects. Thus the MEMS engineer is a true systems designer, handling several physical phenomena simultaneously—and COMSOL Multiphysics and the MEMS Module can do the same. Most MEMS devices are manufactured using lithography-based microfabrication, a technology that the microelectronics industry has refined for highly integrated circuits. Thanks to these efforts there are excellent methodologies and facilities for mass production.



**MEMS workshop Session by Mr. Basavaraj Sheeparimatti,**

Two days workshop on **16/01/2017 and 17/01/2017** “Micro Electro Mechanical System for Research perspective” was organized. The inauguration ceremony was graced by the presence of Mr. Basavaraj Sheeparimatti, Professor, Basaveshwara Eng. College Bagalkot, Mr. Prashanth Hanasi, Professor, Jai College, Belagavi, Mr. Rajesh, Engineer, STD Bengaluru Dr. DV Manjunatha, HOD Dept of ECE, Dr. Praveen J, Dean Academics, AIET. The inaugural session started with a welcome address by Dr. DV Manjunatha, Head of the Dept., ECE, AIET. Followed by this, the dignitaries on the dais lighted the lamp and formally inaugurated the session. A formal introduction of the chief guest of the function was done by Prof. Shruthi Kumari, Asst Prof. from the dept of ECE.





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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

Outcome:

- Faculty gained the knowledge of MEMS and research thrust
- Faculty are exposed to the COMSOL Multiphysics tool and its application
- Faculty are



Coordinator



HOD  
Dr. D V Manjunatha

H. O. D.  
Dept. Of Electronics & Communication  
Alva's Institute of Engineering & Technology  
Mijar, Moodbidri - 574 225





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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**



**Name: Dr. Basavaprabhu G. Sheeparamatti**

<b>Designation</b>	:	Professor
<b>Department</b>	:	Electronics and Communication Engineering
<b>Employee ID</b>	:	1-462211277
<b>E mail ID</b>	:	bgsec@becbgk.edu, b.g.sheeparamatti@gmail.com
<b>Contact details</b>	:	+91-9448789302
<b>Orcid ID</b>	:	0000-0003-1130-4838
<b>Scopus ID</b>	:	13805600200
<b>Vidwan Id</b>	:	125085
<b>Researcher ID (Web of Science)</b>	:	AAH-9611-2021
<b>Google Scholar ID</b>	:	E7JK67gAAAAJ
<b>Qualification</b>	:	B.E.(E&CE), M.Tech.(Biomedical Engg.), Ph.D.(MEMS)

**Professional Experience**

Teaching experience

Industry experience

:

32 years

:

02 years

**Administrative**

**Responsibilities**

1. Worked as Coordinator ACME (Association for Communication and Modern Electronics), E & CE student association from 1990-1994.
2. Worked as organizing committee member and evaluator in "9th all Karnataka Children's Science Congress" in association with KRVP, 20-22 Dec 2001.
3. Worked as Coordinator, KRVP unit of Basaveshwar Engineering College, Bagalkot.
4. Worked as evaluator for MAHITI SINDHU program of Karnataka Govt.
5. Worked as treasurer of The Planetary Society of Youth, Bagalkot from Oct 2005 to March 2007.
6. Worked as warden Engineering Boys Hostel, Basaveshwar Engineering College, Bagalkot, from Oct. 2000 to Oct. 2007.
7. Worked as member, Bagalkot District Science KRVP Unit during 2008-2010.
8. Worked as executive secretary of The Planetary Society of Youth, Bagalkot from March 2007 to March 2009.
9. Worked as a BEC web site in-charge (<http://www.becbgk.edu>) from Aug.2006 to Jan 2012
10. Worked as member of squad team of VTU for the UG/PG exam. June/July 2008.



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**DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING**

**Patents**

**Research Grants**

:

:

1. AICTE research grant under Research Promotion Scheme No. 8023/RID/RPS-8/Pvt (II Policy) / 2011-12 for the year 2012-2014 for **“Design and Fabrication of Low cost Polymer Microcantilevers”**
2. **MEMS Design Centre**, under the NMDC (National MEMS Design Centre) programme of Govt. of India, 2009 -2013



Name: **Mr. Prashant Hanasi**

Educational Qualification (from highest to basic)

S.N



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	Educational Qualification (from highest to basic)				
S.N .	Degree	University / College	Discipline	Year of Passing	Class obtained
1	M.Tech	BEC Bagalkot, VTU Belagavi	Digital Communication	2015	First Class with Distinction
2	BE	BEC Bagalkot, VTU Belagavi	Electronics and Communication Engg.	2012	First Class with Distinction
	Training programmes attended				
S.N .	Subject Area of Training		Organization	Place	Period / Duration
1	Trends In MEMS & Nanotechnology		ATAL	Online	07/12/2021 to 11/12/2021
2	Sensor based System Design using Graphical Interface		ATAL	Online	20/09/2021 to 24/09/2021
3	Workshop on e -sim		IIT Bombay	Bombay	25/07/2019
4	IoT & Machine learning using Labview		VI Solutions	Online	20/07/2020 to 07/08/2020
5	Internship on Labview programming		VI Solutions	Online	15/05/2020 to 17/07/2020
6	LabVIEW programming		KLS GIT	Belagavi	Five days(2018)
7	Industrial automation		BEC Bagalkot	Bagalkot	Five days(2015)
	Membership of National and International Professional Bodies/Organisations				
S.N .	Name of Professional Body/Organization		Place		Membership Category
1	IEEE		Bengaluru		Annual
	Technical Papers/Books Published in National / International Events / Journals				





**ALVA'S INSTITUTE OF ENGINEERING AND  
TECHNOLOGY, MOODBIDRI**

Department of Electronics & Communication Engineering

**Workshop on Micro electro Mechanical System**

**16th Jan To 19th Jan 2017**

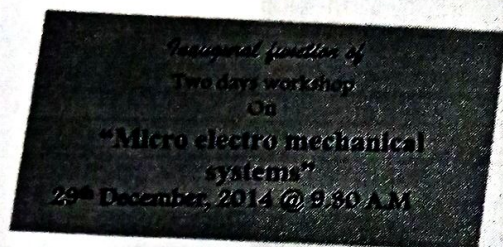
**Registration**

#	Name	Signature
1	DR. D V MANJUNATHA	
2	MR. RAGHAVENDRA RAO	
3	MR. PRAVEEN. J	
4	MR. SHANKAR B.B	
5	MR. RAMESH B	
6	MR. SUDHAKARA H.M	
7	MR. PARVEEZ SHARIFF B.G	
8	MRS. JYOTHI PRAMAL	
9	MRS. SAHANA K ADYANTHAYA	
10	MR. ROSHAN S	
11	MRS. VIJETHA .T.S	
12	MR. SANTHOSHA .S	
13	MS. DEEPA N	
14	MR.YUVARAJU .T	
15	MR. MAHENDRA H N	
16	MR. ANEESH JAIN M V	
17	MR. SANTHOSH T	
18	MRS. BHAGYASHREE K	
19	MR. VENKATESH Y C	
20	MS. KUMARI SHRUTHI	
21	MS. SHREEDEVI SUBRAMANYA	
22	MR. DEEPAK RAJ	
23	MR. SUSHANTH ANIL LOBO	
24	MS. SUDINA S D	
25	MR. PRADEEP KUMAR K	
26	MRS. TANYA MENDEZ	
27	MR. SACHIN .K	
28	MS. PRITHVI P SHETTY	
29	MS. NEETHI SANTHOSH SHETTY	



ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dept. of Electronics and Communication Engineering



To,

Alva's Institute of Engineering and Technology  
Dept. of Electronics and Communication Engineering



We cordially invite you to the Inaugural function of

Two days workshop  
On

"Micro electro mechanical systems"

**President:** Dr. M. Mohan Alva  
Chairman,  
AEP, Moodbidri.

**Chief Guest:** Basavaraj Sheeparimatti,  
Professor,  
Basaveshwara Eng. College  
Bagalkot

**Guest of Honor:** Sri. Vivek Alva,  
Management Trustee,  
AIET, Moodbidri.

**Date:** 16/01/2017 @ 9.30A.M

**Convener**  
Dr.D.V Manjunatha  
Sr. Professor,  
AIET, Moodbidri.

**Principal**  
Dr. Peter Fernandes  
AIET, Moodbidri.

**HOD**  
Dr.D.V Manjunatha  
Dept. of ECE,  
AIET, Moodbidri.



ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY, MOODBIDRI  
Department of Electronics & Communication Engineering

Workshop on Micro electro Mechanical System

16th Jan To 19th Jan 2017

### Attendance List

#	Name	16/01/2017		17/01/2017		18/01/2017		19/01/2017	
		FN	AN	FN	AN	FN	AN	FN	AN
1	DR. D V MANJUNATHA	✓	✓	✓	✓	✓	✓	✓	✓
2	MR. RAGHAVENDRA RAO	✓	✓	✓	✓	✓	✓	✓	✓
3	MR. PRAVEEN. J	✓	✓	✓	✓	✓	✓	✓	✓
4	MR. SHANKAR B.B	✓	✓	✓	✓	✓	✓	✓	✓
5	MR. RAMESH B	✓	✓	✓	✓	✓	✓	✓	✓
6	MR. SUDHAKARA H.M	✓	✓	✓	✓	✓	✓	✓	✓
7	MR. FARVEEZ SHARIFF B.G	✓	✓	✓	✓	✓	✓	✓	✓
8	MRS. JYOTHI PRAMAL	✓	✓	✓	✓	✓	✓	✓	✓
9	MRS. SAHANA K ADYANTHAYA	✓	✓	✓	✓	✓	✓	✓	✓
10	MR. ROSHAN S	✓	✓	✓	✓	✓	✓	✓	✓
11	MRS. VIJETHA .T.S	✓	✓	✓	✓	✓	✓	✓	✓
12	MR. SANTHOSHA .S	✓	✓	✓	✓	✓	✓	✓	✓
13	MS. DEEPA N	✓	✓	✓	✓	✓	✓	✓	✓
14	MR.YUVARAJU .T	✓	✓	✓	✓	✓	✓	✓	✓
15	MR. MAHENDRA H N	✓	✓	✓	✓	✓	✓	✓	✓
16	MR. ANEESH JAIN M V	✓	✓	✓	✓	✓	✓	✓	✓
17	MR. SANTHOSH T	✓	✓	✓	✓	✓	✓	✓	✓
18	MRS. BHAGYASHREE K	✓	✓	✓	✓	✓	✓	✓	✓
19	MR. VENKATESH Y C	✓	✓	✓	✓	✓	✓	✓	✓
20	MS. KUMARI SHRUTHI	✓	✓	✓	✓	✓	✓	✓	✓
21	MS. SHREEDEVI SUBRAMANYA	✓	✓	✓	✓	✓	✓	✓	✓
22	MR. DEEPAK RAJ	✓	✓	✓	✓	✓	✓	✓	✓
23	MR. SUSHANTH ANIL LOBO	✓	✓	✓	✓	✓	✓	✓	✓
24	MS. SUDINA S D	✓	✓	✓	✓	✓	✓	✓	✓





**ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY, MOODBIDRI**  
**Department of Electronics & Communication Engineering**  
**Workshop on Micro electro Mechanical System**  
**16<sup>th</sup> Jan To 19<sup>th</sup> Jan 2017**

**FEEDBACK FORM**

	Strongly agree	Agree	Neutral	Disagree
1. The objective of the training were clearly defined	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2. Participation and interaction are encouraged	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
3. The topics covered were relevant to me	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
4. The content was organised and easy to follow	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
5. This training experience will be useful to my work	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6. The trainer was knowledgeable about the training topics	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
7. The trainer was well prepared	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
8. The training objectives were met	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
9. The time allotted for the training was sufficient	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
10. The meeting room and faculties were adequate and comfortable	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

Suggestions (if any): I wish to have the see one more workshop on the same topic

*Wms*



Alva's Educational Foundation

Alva's Institute of Engineering & Technology

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Shobhavana Campus, Moodbidri, D.K. 574225



Department of Electronics & Communication Engineering

## Certificate of Participation

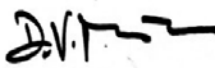
This is to certify that Dr./Mr./Ms/ SUPHAKARA H M

of ECE Department A.I.E.T College has

attended four days of workshop on "Micro Electro Mechanical Systems (MEMS)" organised by

Department of Electronics & Communication Engineering at Alva's Institute of Engineering & Technology, Moodbidri from 16th to 19th janurary, 2017.

  
Resource Person

  
HOD

  
Principal





Alva's Educational Foundation

Alva's Institute of Engineering & Technology

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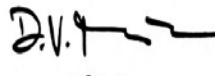


Department of Electronics & Communication Engineering

## *Certificate of Participation*

This is to certify that Dr./Mr./Ms./ Shreedevi Subramanya  
of ECE Department A.I.E.T College has  
attended four days of workshop on "Micro Electro Mechanical Systems (MEMS)" organised by  
Department of Electronics & Communication Engineering at Alva's Institute of Engineering &  
Technology, Moodbidri from 16th to 19th janurary, 2017.

  
Resource Person

  
HOD

  
Principal



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Department of Electronics & Communication Engineering

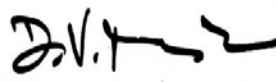
## *Certificate of Participation*

This is to certify that ~~Dr./Mr./Ms./~~ PRITHVI P SHETTY

of ECE Department A.I.E.T College has

attended four days of workshop on "Micro Electro Mechanical Systems (MEMS)" organised by Department of Electronics & Communication Engineering at Alva's Institute of Engineering & Technology, Moodbidri from 16th to 19th janurary, 2017.

  
Resource Person

  
HOD

  
Principal



Alva's Educational Foundation

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Shobhavana Campus, Moodbidri, D.K. 574225



Department of Electronics & Communication Engineering

## *Certificate of Participation*

This is to certify that ~~Dr./Mr./Ms./~~ TANYA MENDEZ

of ECE Department A.I.E.T College has

attended four days of workshop on "Micro Electro Mechanical Systems (MEMS)" organised by

Department of Electronics & Communication Engineering at Alva's Institute of Engineering & Technology, Moodbidri from 16th to 19th janurary, 2017.

Resource Person

HOD

Principal



Alva's Educational Foundation

Alva's Institute of Engineering & Technology

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Shobhavana Campus, Moodbidri, D.K. 574225



Department of Electronics & Communication Engineering

## *Certificate of Participation*

This is to certify that Dr./Mr./Ms./ PRADEEP KUMAR K

of ECE Department A.I.E.T College has

attended four days of workshop on "Micro Electro Mechanical Systems (MEMS)" organised by

Department of Electronics & Communication Engineering at Alva's Institute of Engineering &

Technology, Moodbidri from 16th to 19th janurary, 2017.

Resource Person

HOD

Principal





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Department of Electronics & Communication Engineering

## *Certificate of Participation*

This is to certify that Dr./Mr./Ms/ MAHENDRA H.N  
of ECE Department A.I.E.T College has  
attended four days of workshop on "Micro Electro Mechanical Systems (MEMS)" organised by  
Department of Electronics & Communication Engineering at Alva's Institute of Engineering &  
Technology, Moodbidri from 16th to 19th janurary, 2017.

*A. Ravi*  
Resource Person

*D.V. Ravi*  
HOD

*S. S. Ravi*  
Principal



Alva's Educational Foundation

Alva's Institute of Engineering & Technology

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Shobhavana Campus, Moodbidri, D.K. 574225



Department of Electronics & Communication Engineering

## *Certificate of Participation*

This is to certify that ~~Dr./Mr./Ms./~~ SAHANA . K. ADYANTHAYA  
of Electronics & Communication Department A.I.E.T College has  
attended four days of workshop on "Micro Electro Mechanical Systems (MEMS)" organised by  
Department of Electronics & Communication Engineering at Alva's Institute of Engineering &  
Technology, Moodbidri from 16th to 19th janurary, 2017.

Resource Person

HOD

Principal

Manezes Complex  
Moodbidri

E-Mail : [finance@alvas.org](mailto:finance@alvas.org)

### Journal Voucher

**No. : 6109**

Dated : 21-Mar-2017

Particulars	Debit	Credit
Seminar Expenses Dr Institute of Engineering & Technology-AIET 17,994.00 Dr	17,994.00	
To Seminar & Workshop Income Institute of Engineering & Technology-AIET 7,500.00 Cr		7,500.00
To Ramesh M.R-AIET		10,494.00
	₹ 17,994.00	₹ 17,994.00

**On Account of :**

**Amount paid towards expenses incurred in 2 days FDP on micro electro mechanical systems on 16/01/2017 & 17/01/2017 as per bill enclosed .**

**Authorised Signatory**

# EDUCATION FOUNDATION (R.)

MOODBIDRI - 574 227, D.K.

## DEBIT/ CREDIT VOUCHER

Date 21/03/12

Sl. No.	Particulars	College Code	Debit (₹)	Credit (₹)
a	Seminar & Workshop Exps Alc	A187	17994	
b	Seminar & Workshop Income	A187		7500
c	Advance Alc (Ramesh m R A187)	A187		10494
d				
e				
PAYABLE / RECEIVABLE				
TOTAL			17994	17994

Prepared by

Principal

Arration Am't paid towards Exps incurred in 2 days FDP on micro  
Cleto mechanical Systems on 16/1/12 + 17/1/12 oop bill entered today.

Prepared by

Principal

A.O.

Authorised by

Receiver's / Remitter's Signature

Total Amount		400.00
INCOME		17994.00
1	Collected amount	