

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY TECHNICAL CAMPUS Kilimanoor, Thiruvananthapuram "A Unit of Vidya International Charitable Trust"

VAST TC/KLR/GN

14.08.2015

NOTICE

Two day Induction/ Faculty Development programme for newly joined faculty members is scheduled on 17/08/2015 to 18/08/2015. All are requested to attend the program. The inaugural ceremony of the program will be on 17/08/2015 at 9.30AM at SB615 Seminar Hall.

Copy to:

- 1. All Faculty members
- 2. All Notice Boards



Malakkal P.O., Kilimanoor, Thiruvananthapuram, Kerala – 695602.

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VIDYA ACADEMY OF SCIENCE & TECHNOLOGY TECHNICAL CAMPUS Kilimanoor, Thiruvananthapuram

"A Unit of Vidya International Charitable Trust"

A Report On

Faculty Development Program/ Induction programme for Newly Joined Faculty

Conducted from 17-08-2015 to 18-08-2015

Organized by

Vidya Academy of Science and Technology Technical Campus

Report Prepared by

Mr. Lenin Babu

Malakkal P.O., Kilimanoor, Thiruvananthapuram, Kerala – 695602.

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OVERVIEW

Vidya Academy of Science and Technology Technical Campus has organized a Faculty development programme/ Induction Programme for the newly joined faculty at SB615 from 17-08-2015 to 18-08-2015.

Teachers in higher education generally join the teaching profession without any formal training in teaching-learning or classroom management. Nor does the higher education system have any pre-requisites of such training as the essential eligibility criteria for their appointment. In order to ensure qualitative growth of education in general and higher education in particular, the teachers need to be strengthened and their ongoing professional development need to be given due attention. This necessitates a mandatory induction programme for freshly recruited teachers.

The induction programme will include teaching and research methodologies (flip classrooms, collaborative learning, case approach), use of ICT, curriculum structure and design, sensitization to gender and social diversity, professional ethics, sharing of best practices and updating of developments in their field of study, etc.

PROGRAM OBJECTIVES

- To sensitize and motivate the faculty to adopt learner-centric approaches of teaching and classroom management.
- To enable the faculty to get acquainted with and adopt ICT integrated learning and new pedagogic approaches to teaching-learning.
- To enable the faculty develop understanding of various methods of evaluation and assessment and use different assessment tools in diversified settings.
- To help the participants understand the structure, functioning, governance, rules and regulations in Institution and to orient them to become potential partners in institute building

- To provide research orientation to young faculty towards integrating research with pedagogy and innovative classroom practices.
- To sensitize and acquaint faculty with practical knowledge in emotional balance of self and student-counselling and mentoring.
- To develop skills such as perseverance, honesty, respect, lawfulness, patience, fairness, responsibility and unity.

PROGRAM CO-ORDINATORS

Induction and Orientation Program for 11 faculty members on 17/08/2015 and 18/08/2015, with the guidance of the Principal Dr. Sobha Manakkal and coordinated by Mr.Lenin Babu., Assistant Professor, CE Department.

RESOURCE PERSONS

- 1. Er. Devarajan R.
- 2. Dr. B.Anil
- 3. Ms. Sobha Manakkal

PARTICIPANTS

Eleven faculty members participated in the programme. The programme is organized to sensitise and motivate the faculty to adopt learner centred approaches, ICT integrated learning and new pedagogic approaches to teaching- learning, assessment tools in higher education.

PROGRAM DETAILS

Inauguration

The programme started with inauguration at 9.30 am on 17/08/2015. The function was inaugurated by Principal Dr. Sobha Manakkal. All Heads of Departments were present along with faculty members.

Syllabus

Day 1 (17/08/2015)

Resource person: Dr.Sobha Manakkal

- 1. Roles and responsibilities of a Faculty / Academics in Higher Education
- 2. University Structure and Functioning

Resource person: Er. Devarajan R.

- 3. Pedagogic Techniques & Teaching and Learning Methods
- 4. Assessment and Evaluation

Day 2 (18/08/2015)

Resource person: Dr.B. Anil

- 5. ICT: effective use of technology for teaching, learning and evaluation
- 6. Research in Higher Education
- 7. Personal-Emotional Development and Counselling
- 8. Ethics in learning teaching process.
- 9. E-Content Development & MOOCs

PROGRAM OUTCOMES

- Able to develop teaching and learning materials.
- Justify, choose and utilize different approaches and skills of teaching in different situations.
- Able to transform theory in to practice in classroom situation
- To understand Human values and ethics in profession

FEEDBACK

The feedback of the sessions were excellent. In the feedback sessions, Faculty shared that this programme will help new teachers to improve their teaching and classroom management skills, adjust to the culture of higher education institutions, and better understand their professional responsibilities.

RESOURCE PERSONS

1. Er. Devarajan R.



Er. Devarajan R. holds B.Sc. (Engg.) degree from REC Kozhikode during 1970.n He worked in the KSE Board (1971-2004) and retired as Chief Engineer. Served the organization at various positions at different areas including power system protection, Generation, Transmission and Distribution. Responsible in carrying out pre commissioning test of Kuttyadi,Idukki,Idamalayar, Lower Periyar,Kallada Generating Stations,Madakkathara 220KV Substation and Many 110 KV substations including Muvattupuzha,Pala,Badagara,Punnapra etc. and 66 KV substations including Thodupuzha,Karuvatta,Varkala,Koothattukulam, Kattappana etc. Associate with VICT since 2011 as Project Director. Responsible for all construction and administration activities at Kilimanoor campus. He has undergone training at Power System Training

Institute Bangalore on power system protection and Art of relaying. Undergone training at ASEA Sweden at Vesteras on power system protection. Undergone training at Montreal Canada on testing of control panels.

2. Dr.B.Anil



Brahmanandan Anil, Indian engineering educator with Education Background is Bachelor of Science in Engineering, College Engineering, Trivandrum, 1982. Master in Technology, IIT, Madras, India, 1984. Doctor of Philosophy, IIT, Madras, India, 1998. Worked as Lecturer RVTI, Bangalore, India, 1984, College Engineering, 1994-1995. Assistant professor, since 1996, Rochester Institute of Technology Government Engineering College, Kattayam, India, 1995-1996, He was the Principal of Government Engineering College, Barton Hill Trivandrum. Achievements include research in computer assisted training; decision support systems; Computer-aided Design; finite elements in large strain plasticity, Member of Indian Society Technology Education (secretary 1996-1998, secretary-cum-treasurer since 1999, Best Chapter award 1998), College Engineering Alumni Association (secretary since 2000), Institution Engineers.

henis Babu



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FDP/Induction Programme 2015

List of Participants

Sl.No.	Name of Participant	Branch
1	Saranya Namboothiri	CE
2	Divya Sabu	EEE
3	Muhammed Anshad P.Y.	ECE
4	Renjith S.	ECE
5	Shilpa Das	ECE
6	Prince OM	ME
7	Ramjith Krishnan	ME
8	Vishnu Raj R	AS
9	Neeraj S. Unnithan	AS
10	Saju Joy	AS
11	Sumesh S	CE



Vidya Academy of Science and Technology Technical Campus

(A Unit of Vidya International Charitable Trust) Malakkal P.O., Kilimanoor, Thiruvananthapuram, Kerala 695602

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./ Mrs./ Dr./ Prof. of CIVIL ENGINEERING

SARANYA NAMBOOTHIRI

participated in Faculty Development Programme/ Induction Programme for newly joined faculty, Organised by Vidya Academy of Science and Technology Technical Campus, on 17-08-2015 to 18-08-2015.



Mr. Lenin Babu Coordinator

Dr. Sobha Manakkal Principal



Vidya Academy of Science and Technology Technical Campus

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr./ Mrs./ Dr./ Prof.

SHILPA DAS

ELECTRONICS AND COMMUNICATION ENGINEERING

participated in Faculty Development Programme/ Induction Programme for newly joined faculty, Organised by Vidya Academy of Science and Technology Technical Campus, on 17-08-2015 to 18-08-2015.



Mr. Lenin Babu

Coordinator

Dr. Sobha Manakkal Principal



Vidya Academy of Science and Technology Technical Campus (A Unit of Vidya International Charitable Trust)

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CERTIFICATE OF PARTICIPATION

This is to certify that Mr./ Mrs./ Dr./ Prof. of APPLIED SCIENCE

SAJU JOY

participated in Faculty Development Programme/ Induction Programme for newly joined faculty, Organised by

Vidya Academy of Science and Technology Technical Campus, on 17-08-2015 to 18-08-2015.



Mr. Lenin Babu

Coordinator

Dr. Sobha Manakkal Principal



VIDYA ACADEMY OF SCIENCE & TECHNOLOGY TECHNICAL CAMPUS, Kilimanoor

DEPARTMENT OF MECHANICAL ENGINEERING

Cordially invites you to a Seminar on

The Applications of Composite Materials in Aerospace Structures

On 10th March 2016
Time: 10 am, Venue: SB-615 Seminar Hall

Speaker: Dr. Ramesh Kumar, former scientist, VSSC



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Seminar on

The Applications of Composite Materials in Aerospace Structures

Report:

The Department of Mechanical Engineering arranged a seminar on "The Applications of Composite Materials in Aerospace Structures". The resource person was Dr. Ramesh Kumar, former scientist, VSSC. Prof. Jageth Babu (HOD, ME), faculty and students of Mechanical Department were present for the function which was held at Seminar hall on March 10th, 2016. The talk focused on the materials used for construction of space structures. The importance of composite materials due to their low weight and high strength was also highlighted. The features of FEAST software, an FEM tool, were discussed by taking a simple problem of buckling of cylindrical shafts under axial load. An overview of the concepts involved in finite element technique was introduced to the students. Finally case studies were presented. The event was coordinated by Mr. Robin David (Asst. Professor -ME).

Date	Session	No of participants
10/03/2016	The Applications of Composite Materials	61
(10am -12.30 pm)	in Aerospace Structures	

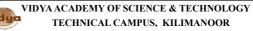


Outcome:

The session was very much informative. The discussed areas are of great benefit for the participants as the topics match with the current working domain. Participants were enlightened with the most widely used advance technologies in aerospace.

Resource person

> **Dr. Ramesh Kumar**Former scientist of VSSC, Thiruvananthapuram



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Seminar on The Applications of Composite Materials in Aerospace Structures 10/03/2016

	10/03/2016	
	Attendance sheet	_
Sl No.	Name	Attendance
1	Anoop J	P
2	Abhiram B R	P
3	Aromal Sudersan	P
4	Vyshnav Ar	P
5	Sreesangh P Ghosh	P
6	Vivek I Varman	P
7	Durgadas B R	P
8	Arun Krishnan	P
9	Irshi Bp	P
10	Anas S Rasheed	P
11	Anverlal An	P
12	Amal Nair	P
13	Binyamin S	P
14	Vishnu S S	+
		P
15	Ananthu M	P
16	Arjun S	P
17	Akshay Ajith	P
18	Amalkrishna M B	P
19	Amal S Kumar	P
20	Akshay T Sramanan	P
21	Arun Mohan	P
22	Akhil S R Nair	P
23	Akhilraj U R	P
24	Akhil Raj R	P
25	Abhishek H	P
26	Vishnu G	P
27	Amal K R	P
28	Vishnu Jayakumar	P
29	Akshay T S	P
30	Arjun S K	P
31	Deepu M A	P
32	Ajmal T	P
	Amal B.S	+
33	Arun B S	P
34	Vaisakh S	P
35		P
36	Amal B	P
37	Anu T	P
38	Arun R	P
39	Anoop M	P
40	Akash R S	P
41	Anal K R	P
42	Arun A S	P
43	Bipin R S	P
44	Akhil K Uday	P
45	Gokul Krishnan G	P
46	Abhinand S	P
47	Athul M A	P
48	Amal S M	P
49	Vishnu Vs	P
50	Gokul Joshy	P
51	Dinesh Krishnan G	P
52	Vikas Valsan Mavila	P
53	Akhil Sivan	P
54	Vishnukumar R	P
55	Greeshma M.S	P
56	Ananthu.B Nair	+
		P
57	Amith K.A	P
58	Arun Chandran C S	P
59	Akshay Prasad	P
60	Anurag V	P
61	Ashik S	P



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VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY TECHNICAL CAMPUS, KILIMANOOR

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CERTIFICATE of PARTICIPATION

HEREBY CERTIFIES THAT

Mr. Arjun S

has successfully participated in the seminar on **Application of Composite Materials in Aerospace Structures** organized by Department of Mechanical Engineering,

Vidya Academy of Science and Technology Technical Campus, Kilimanoor on **10**th **March 2016**

Robin David
Coordinator



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CERTIFICATE of PARTICIPATION

HEREBY CERTIFIES THAT

Mr. Vyshnav A R

has successfully participated in the seminar on **Application of Composite Materials in Aerospace Structures** organized by Department of Mechanical Engineering,

Vidya Academy of Science and Technology Technical Campus, Kilimanoor on **10**th **March 2016**

Robin David
Coordinator

Dr. V. Ajayakumar

Principal



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VIDYA ACADEMY OF SCIENCE AND TECHNOLOGY TECHNICAL CAMPUS, KILIMANOOR

(A Unit of Vidya International Charitable Trust)

CERTIFICATE of PARTICIPATION

HEREBY CERTIFIES THAT

Mr. Binyamin S

has successfully participated in the seminar on **Application of Composite Materials in Aerospace Structures** organized by Department of Mechanical Engineering,

Vidya Academy of Science and Technology Technical Campus, Kilimanoor on **10**th **March 2016**

Robin David
Coordinator

Dr. V. Ajayakumar

Principal



VIDYA ACADEMY OF SCIENCE &TECHNOLOGY TECHNICAL CAMPUS, Kilimanoor

DEPARTMENT OF MECHANICAL ENGINEERING PRESENTS

FACULTY DEVELOPMENT PROGRAMME ON "FINITE ELEMENT METHOD"

2th April 2016 Time: 10 AM, Venue: SB-615, Seminar hall Resource person: Dr. Gangan Prathap, Academic and Research Director, VICT



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Report on

Faculty development programme on "Finite Element Method"

As a part of the faculty improvement programme at VAST-TC, Dr. Gangan Prathap, Academic and Research Director, VICT handled a session on "Finite Element Method" primarily for the Mechanical Department. Faculties from other departments were also participated in the event. The FDP aims to provide opportunities to the faculty members of various departments to enrich their knowledge in the field "finite element method" its various applications. The Programme also intends to develop the teaching skill of participants for inculcating learning values in students and guiding and monitoring their progress in the field of Finite element technology. 18 faculty from various departments attended the session. The event was coordinated by Mr. Robin David (Asst. Professor - ME).

Venue: Mechanical Seminar hall (SB-615)

Date: 2nd April, 2016

Time: 10 AM

Syllabus: Introduction to finite element method and its application

INAUGURAL SESSION: The esteemed personalities were present in the inauguration of the programme:

Kilimanoor,

Malakkal P.O

Trivandrum

- > Dr.V.Ajayakumar, Principal, VAST TC
- > Dr. Gangan Prathap, Academic and Research Director, VICT

> Prof. Rajesh G.R., Head, Department of Electronics & Communication & TECH.

Dr.T.MATHAVARAJ RAVIKUMAR
Principal
Vidya Academy of Science & Technology
Technical Campus
Malakkal P O, Kilimanoor, Trivandrum-605505

Outcome

The session was very much informative. The discussed areas are of great benefit for the participants as the topics match with the current working domain. Participants were enlightened with the most widely used advance technologies in this domain. This in turn will help in research activity in the area of Finite element technology.

Kilimanoor,

Malakkal P.O

Trivandrum

Resource person

Dr. Gangan Prathap, Academic and Research Director, VICT

Dr.T.MATHAVARAJ RAVIKUMAR

Principal

Vidya Academy of Science & Technology

Technical Campus Malakkal.P.O,Kilimanoor,Trivandrum-60500

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY TECHNICAL CAMPUS, KILIMANOOR

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FDP on Finite Element Method

2nd April, 2016

Attend	ance	sheet
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Attendance sneet		
Sl No.	Name	Attendance
1	Robin David	/
2	Lenin Babu	1
3	Ajayakumar	1
4	Ramjith R Krishnan	1
5	Avinash G S	1
6	Vishnu Gireeesh C	1
7	Binu S	1
8	Karthik R Narayanan	1
9	Kailas S	1
10	Sethuparvathy	1
11	Anusree S	1
12	Saifiya F	1
13	Greeshma Pradeep	1
14	Deepak V Dev	/
15	Vishnu P C	1
16	Jithin Prem S	1
17	Tina J	1
18	Deepika S	1



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CERTIFICATE of PARTICIPATION

HEREBY CERTIFIES THAT

Avinash G S

has successfully participated in the Faculty Development Programme on "Finite element method" organized by department of mechanical engineering,

Vidya Academy of Science and Technology Technical Campus, Kilimanoor

Robin Devid

Program Coordinator



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CERTIFICATE of PARTICIPATION

HEREBY CERTIFIES THAT

Binu S

has successfully participated in the Faculty Development Programme on "Finite element Vidya Academy of Science and Technology Technical Campus, Kilimanoor method" organized by department of mechanical engineering,

Robin Devid

Program Coordinator



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CERTIFICATE of PARTICIPATION

HEREBY CERTIFIES THAT

Kailas S

has successfully participated in the Faculty Development Programme on "Finite element Vidya Academy of Science and Technology Technical Campus, Kilimanoor method" organized by department of mechanical engineering,

Robin Devid

Program Coordinator



VIDYA ACADEMY OF SCIENCE & TECHNOLOGY TECHNICAL CAMPUS Kilimanoor, Thiruvananthapuram "A Unit of Vidya International Charitable Trust"

VAST TC/KLR/GN

07.04.2016

NOTICE

The Robotics Club is organizing a seminar "Robotics – An Interactive Session" for the first year students on 10.04.2016 from 9: 30 a. m. to 12:30 p. m. All interested students are requested to attend the program. The program will begin at 9.30 a. m. in SB 615 Seminar Hall.

PRINCIPAL

1. S2 CE:

2. S2 ME:

3. S2 EEE:

4. S2 ECE:

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ROBOTICS - An Interactive Session

10th April, 2016

REPORT

As part of Robotics club activities, Vidya Academy of Science and Technology Technical Campus, Kilimanoor conducted a seminar, "ROBOTICS - An Interactive Session" on 10/4/2016. The half-day session from 9:30 am to 12:30 pm, was held in seminar hall, SB 615. Chief resource person was Mr. Gopan B Chandran, a trainer in this field. **The session was attended by 17 students**. The event mainly focused on developing curiosity in the minds of the students on the applications of robotics in everyday life and in the future.

Topics covered:

- Robotic arm: The speaker elaborated on the meaning of the word, which is a programmable mechanical arm, which can be a part of a complex robot that serves many functions
- Raspberry Pi: The students were introduced to small tiny affordable computers which were basically aimed to teach basics of computer science to children through fun practical projects
- Arduino operations: The participants were also given a brief idea on the open source prototyping platform, Arduino, that enables users to create interactive electronic objects.
- Path following robot: At the end of the session, the students were taught on how to create a small robot that follows a specific path indicated by a line.

The event was coordinated by staff in charge of Robotics club, Mr. Rahul S (Asst. Professor – EEE). Student members of the robotics club, from different branches, participated in this

activity. It created an overwhelming response from the students. In the feedback session the students requested for more such events.



OUTCOME:

The event which was attended by interested students from different branches was a great success. The session developed a sense of confidence in the minds of the students to take up projects involving robotics and its related technologies.

RESOURCE PERSON

• Mr. Gopan B Chandran, Trainer in Robotics

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY TECHNICAL CAMPUS, KILIMANOOR



(A Unit of Vidya International Charitable Trust)

Robotics - An Interactive Session

10th April 2016

Attendance sheet

Sl No.	Name	Attendance
1	KIRAN BABU	Р
2	IRSHI B P	Р
3	KIRAN B U	Р
4	KRISHNA DEV R	Р
5	NAJEEM H	Р
6	PREJITH R	Р
7	ROSHIN R	Р
8	SARATH S	Р
9	SHREERAM P M	Р
10	SUBINSHA S R	Р
11	SUJITH S P	Р
12	AMAL K R	Р
13	ARUN A S	Р
14	GOKUL M	Р
15	PANKAJ BALAJI	Р
16	KARNAN A	Р
17	DEEPU M A	Р

TECHNOLOGY TECHNICAL CAMPUS, KILIMANOOR

One Day Faculty Development Programme on

NUMERICAL METHODS

4TH MAY, 2016 | 9:30 A.M.- 4:00 P.M.

VENUE: SB 604 (BOARD ROOM)

Speaker: Dr. Gangan Prathap (Academic and Research Director, VICT)



VIDYA ACADEMY OF SCIENCE & TECHNOLOGY TECHNICAL CAMPUS_Kilimanoor, Thiruvananthapuram "A Unit of Vidya International Charitable Trust"

FDP ON NUMERICAL METHODS

4th May, 2016

REPORT

Vidya Academy of Science and Technology Technical Campus, Kilimanoor conducted a one day faculty development programme on 'Numerical Methods'. The one day course was held on 4th May 2016 from 9:30 am to 4:00 pm at the Board Room. Faculty members who completed the FDP on Numerical methods, under Dr. Gangan Prathap were distributed certificates for participation. The event was coordinated by Mr. Lenin Babu (Asst. Professor – CE). Project Director Er. R Devarajan, Research Director Dr. Gangan Prathap, Academic director Dr. B. Anil, Principal Dr. V. Ajayakumar and concerned faculty members were present for the event. The total number of participants was 7.

Topics Covered:

- Introduction to numerical analysis: The basic definition of analysis using numerical methods
 was explained and its importance in research in various branches of engineering was also
 shared
- Basics of numerical algorithms: The speaker explained certain tip and tricks to the participants on how to form basic algorithms for the analysis.
- Accuracy and efficiency of numerical algorithms: The high accuracy of the outputs and the
 predictions of numerical methods was also conveyed to the participants.
- Other computational techniques: The various open source softwares and paid softwares commonly used for numerical analysis were introduced.

The members completed the course successfully are Ms. Ammu Kripalal (ECE), Mr. Avinash. G. S (ME), Mr. Balu Ramabhadran (ECE), Mr. Jithin Prem (CE), Ms. Karthika. E. T (EEE), Mr. Prince. O. M (ME) and Ms. Tina (CE).

OUTCOME:

The faculty gained knowledge on the modern day computational techniques which shall help them guide the students to take up project works using these present day tools.

RESOURCE PERSON

Dr. Gangan Prathap, Academic and Research director, VICT

VIDYA ACADEMY OF SCIENCE & TECHNOLOGY TECHNICAL CAMPUS, KILIMANOOR

(A Unit of Vidya International Charitable Trust) FDP on Numerical Methods

	4th May 2016		
	Attendance sheet		
Sl No.	Name	Attendance	
1	Ammu Kripalal	Р	
2	Avinash G S	Р	
3	Balu Ramabhadran	Р	
4	Jithin Prem	Р	
5	Tina J	Р	
6	Karthika E T	Р	
7	Prince O M	Р	

Coordinator



TECHNICAL CAMPUS, KILIMANOOR

(A Unit of Vidya International Charitable Trust)

CERTIFICATE of PARTICIPATION

HEREBY CERTIFIES THAT

Ms. Tina J

has successfully participated in the Faculty Development Programme on 'Numerical Methods' organized by

Vidya Academy of Science and Technology Technical Campus, Kilimanoor on 4th May 2016

2

Lenin babu Program Coordinator



TECHNICAL CAMPUS, KILIMANOOR

(A Unit of Vidya International Charitable Trust)

CERTIFICATE of PARTICIPATION

HEREBY CERTIFIES THAT

Ms. Ammu Kripalal

has successfully participated in the Faculty Development Programme on 'Numerical Methods'

Vidya Academy of Science and Technology Technical Campus, Kilimanoor on 4th May 2016

organized by

A S

Lenin babu Program Coordinator



TECHNICAL CAMPUS, KILIMANOOR

(A Unit of Vidya International Charitable Trust)

CERTIFICATE of PARTICIPATION

HEREBY CERTIFIES THAT

Mr. Jithin Prem

has successfully participated in the Faculty Development Programme on 'Numerical Methods' organized by

Vidya Academy of Science and Technology Technical Campus, Kilimanoor on 4th May 2016

A/-

Lenin babu Program Coordinator