



NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE
(NAAC Accredited)
(Approved by AICTE, Affiliated to APJ Abdul Kalam Technological University, Kerala),
Pampady, Thrissur, Kerala-680 588



INDEX PAGE

Criterion	Description
6.3.3	Number of professional development /administrative training programs organized by the institution for teaching and non-teaching staff during the 2023-24 academic year

Sl. No	Title of Professional development program organized for teaching staff / non-teaching staff	Number of participants
1	UHV -I	All
2	3D PRINTING WORKSHOP	All




PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
NHa Gardens, Pampady
Thiruvilwamala, Thrissur - 680588



NEHRU COLLEGE OF ENGINEERING AND RESEARCH CENTRE

PAMPADY, THIRUVILWAMALA, THRISSUR DT., KERALA - 680588

NBA ACCREDITED PROGRAMMES - B.TECH CSE, B.TECH MTR | NAAC RE-ACCREDITED WITH 'A' GRADE
ISO 9001:2015 CERTIFIED | APPROVED BY AICTE | AFFILIATED TO APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY



Three Days Faculty Development Programme on **UNIVERSAL HUMAN VALUES** **(UHV-Introductory)**

In Collaboration with
All India Council for Technical Education (AICTE)
Under the Supervision of National Coordination Committee
Induction Programme - AICTE

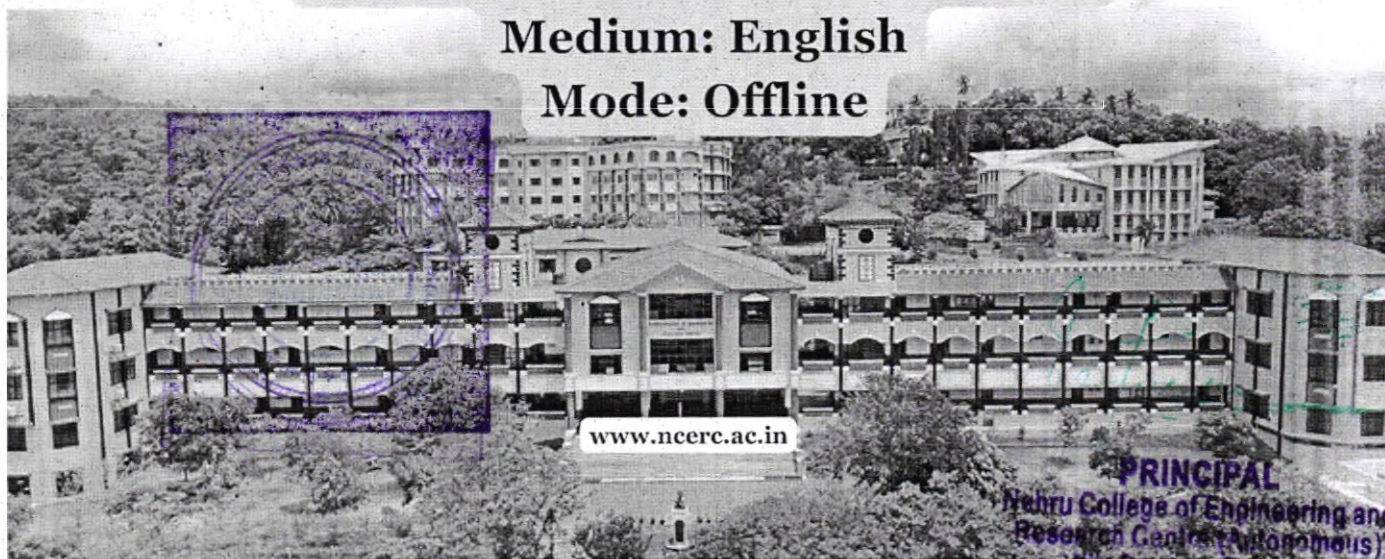
Date: 23.06.2023 to 25.06.2023 (3 Days)

Time: 08:30 AM to 05:30 PM

Venue: Aryabhata Seminar Hall

Medium: English

Mode: Offline



www.ncerc.ac.in

PRINCIPAL
Nehru College of Engineering and
Research Centre (Autonomous)
NHA Gardens, Pampady
Thiruvilwamala, Thrissur - 680588

About Nehru Group of Institutions (NGI)

Nehru College of Educational and Charitable Trust was established way back in 1968 by the Founder Chairman late Shri. P. K. Das who was an eminent Chartered Engineer, a renowned Academician, a great Industrialist and a well known Philanthropist with an objective of imparting value added practical education of international standard in aviation and other fields of technology. The trust started initially with Nehru College of Aeronautics and Applied Sciences, Coimbatore and diversified later on to establish a cluster of educational institutions both in Tamil Nadu and Kerala. Nehru Group of Institutions (NGI), founded on this philosophy, is committed to serve students, especially from socially backward backgrounds looking out for continuing education pathways with an academic and vocational direction.

About Nehru College of Engineering and Research Centre (NCERC)

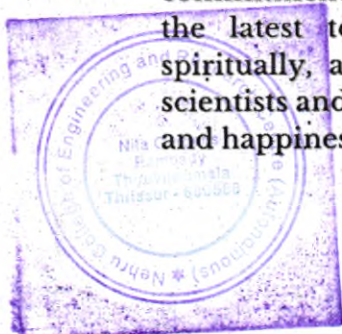
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Vision

To mould true citizens who are millennium leaders and catalysts of change through excellence in education.

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NCERC is committed to transform itself into a centre of excellence in Learning and Research in Engineering and Frontier Technology and to impart quality education to mould technically competent citizens with moral integrity, social commitment and ethical values. We intend to facilitate our students to assimilate the latest technological know-how and to imbibe discipline, culture and spirituality, and to mould them into technological giants, dedicated research scientists and intellectual leaders of the country who can spread the beams of light and happiness among the poor and the underprivileged.




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Thiruvilwamala, Thrissur - 680588

About the Faculty Development Programme (FDP)

This FDP on Universal Human Value (UHV-Introductory) is organized by Nehru College of Engineering and Research Centre (NCERC) in collaboration with AICTE. This FDP helps the participants to understand themselves, understand the underlying harmony in nature. The participants can understand the role of human being in nature, in existence and live with fulfilment of life. This FDP on Universal Human Value, we believe will pave the way for understanding the values of human and nature which in turn brings harmony in the society.

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- 1 To prepare Faculty Mentors for 3 weeks' mandatory Student Induction Program (SIP, Deeksharambh)
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Target Group

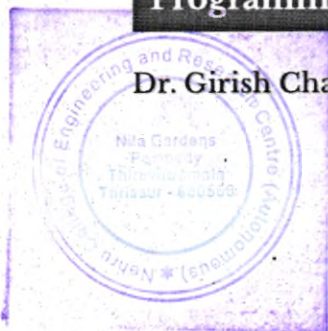
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Dr. P. Krishnakumar (CEO & Secretary, Nehru Group of Institutions)
Prof. Dr. Karibasappa Kwadiki (Principal, NCERC)

Programme Coordinator

Dr. Girish Chandran V, Associate Professor, ME, NCERC



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Thiruvananthapuram, Thirissur - 680588

Technical Support

Mrs. Radhika K, Asst. Professor, CSE, NCERC
Mr. Raj Kumar P, Asst. Professor, ECE, NCERC

Dr. Sunilkumar N (Resource Person)
Shri. Jayaprakash G (Co-Facilitator)
Shri. Deepesh A (Observer)

Session Plan (AICTE Approved Plan for 3 Days UHV-I FDP)

Session/ Day	08:30 AM – 09:00 AM	Session 1 09:00 AM – 10:30 AM	Session 2 10:45 AM – 12:15 PM	Lunch Break 12:15 PM – 01:00 PM	Session 3 01:00 PM – 02:30 PM	Session 4 02:45 PM – 04:15 PM	Tutorial 04:30 PM – 05:30 PM
Day 1	Inauguration	Holistic Development and Role of Education	Self – Exploration, Happiness, Prosperity	Lunch Break & Informal Discussion with Participants by Volunteers	Harmony in Human Being, Story of Stuff	Harmony in Self, Discussion	Groups of 20 Participants Each
Day 2	Informal Sharing Session	Recap of Day 1, Prosperity – Health	Harmony in Family – Trust		Trust Contd., Harmony in the Family – Respect	Harmony in the Family – Other Feelings, Discussion	Groups of 20 Participants Each
Day 3	Informal Sharing Session	Recap of Day 2, Harmony in Society	Harmony in Nature		Harmony in Existence & Sum Up	Participants' Self- Evaluation	Valedictory Function

Inaugural Session (23.06.23 | 8:30 AM - 9:00 AM)

Welcome Address : Dr. Karibasappa Kwadiki, Principal, NCERC
Lighting of Lamp
Presidential Address : Adv. Dr. P. Krishnadas (Chairman & Managing Trustee, NGI)
Special Address : Dr. P. Krishnakumar (CEO & Secretary, NGI)
Introductory Speaker : Shri. Deepesh A, Co-Facilitator
Words of Gratitude : Mrs. Radhika K, Asst. Professor, CSE

Contact Us:

Dr. Girish Chandran V (LPC) - 8075061417

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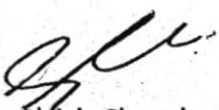
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ATTENDANCE CERTIFICATE

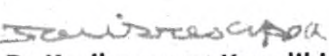
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Sl No	Name
1.	AISWARYA RAMESH (Present only on 23 June 2023)
2.	Alex Kuruvilla
3.	Ambika Das R
4.	ANITHA P
5.	ASHISH L
6.	ASWATHY V G
7.	Dr Deepa A
8.	DEEPAMOL P S
9.	DIVYA P
10.	Dr BOBBY ND
11.	Gopinathan C
12.	Ishwarya Surendran
13.	KIRAN M
14.	Lisa c
15.	Dr M. Appadurai
16.	MANURAJ K R
17.	Mr. Midhun Raj P K
18.	N.SHANKAR
19.	NEETHU M
20.	P T RAJEENA MOL
21.	Pramod K
22.	Dr PRAVEEN.H
23.	Rahul R

24.	REJUMON R
25.	SAJITHA A S
26.	SANEESH A S
27.	Sanoj T
28.	Santhosh B
29.	Sijo Joseph Chakola
30.	Silja Varghese
31.	Dr Sivakumar K
32.	SMITA UNNIKRISHNAN
33.	Sreelekha T G
34.	Subina sanjay
35.	Dr SUDHEER S MARAR
36.	Sumi M
37.	Dr Suriakala
38.	Dr VIJAYAKUMAR . D
39.	VIMAL M N
40.	Vinod R
41.	VISHNU PRABHA N KAIMAL
42.	Dr Girish Chandran V
43.	Radhika K
44.	Bindu (Campus manager)
45.	Sumesh M (staff)
46.	Rajesh (office Asst)
47.	Krishnan (office Asst)
48.	Prasanth (NGI office)


Dr Girish Chandran V
Local Program Coordinator




Dr Karibasappa Kwadiki

Principal


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NEHRU COLLEGE OF ENGINEERING AND
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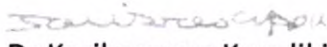
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This is to certify that the below mentioned faculties from **Nehru College of Architecture** has attended the three-day offline FDP on Universal Human Values, UHV- Introductory at Nehru College of Engineering and Research Centre from **23 June 2023 to 25 June 2023** in collaboration with AICTE under the supervision of National Coordination committee Induction Programme (NCCIP- AICTE)

Sl No	Name
1	Lakshmi Prabha E
2	Vismaya S


Dr Girish Chandran V

Local Program Coordinator


Dr Karibasappa Kwadiki

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ATTENDANCE CERTIFICATE

This is to certify that the below mentioned faculties from **Jawaharlal College of Engineering and Technology** has attended the three-day offline FDP on Universal Human Values, UHV-Introductory at Nehru College of Engineering and Research Centre from **23 June 2023 to 25 June 2023** in collaboration with AICTE under the supervision of National Coordination committee Induction Programme (NCCIP- AICTE)

Sl No	Name
1.	Ajith Mohan M
2.	AMBARISH A.
3.	Aswathy. P
4.	C.SORNA CHANDRA DEVADASS
5.	Chamind E C
6.	DAYANA K
7.	DHANYAJA P
8.	I.P.MALAVIKA
9.	John George
10.	KAILASH KARUNAKARAN
11.	KRISHNAPRASAD C N
12.	Neethu M Joy (((Present only on 23 June 2023)
Sl No	Name
13.	Lt.Nisha Narayanan

14.	MOHAMED SAMEER T K
15.	Nishanth s
16.	Nisna haneefa
17.	Rajkumar Narayanan
18.	Remya K P
19.	REMYA M
20.	Sayana M
21.	Sneha Chengath (Present only on 23 June 2023)
22.	Shishira Reju
23.	Sreya V S (Present only on 23 June 2023)
24.	SUJESH G
25.	Suma R ((Present only on 23 June 2023)
26.	Vijitha G
27.	Vishnu Narayan

Dr Girish Chandran V

Local Program Coordinator

Dr Karibasappa Kwadiki

Principal




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Nehru College of Engineering and
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NEHRU COLLEGE OF ENGINEERING AND
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Sl No	Name
1	Dr. Thilakanandan C
2	Anantha Lekshmi M S (Present only on 23 June 2023)
3	BHAGEESHMA KP
4	Devika Dersan S
5	Reshma Ravindran
6	Shamili V P
7	Sreddha G Krishna S (Present only on 23 June 2023)
8	Amrita M Nair
9	Asha K

Dr Girish Chandran V

Local Program Coordinator



Dr Karibasappa Kwadiki

Principal

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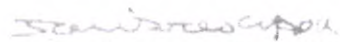
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Sl No	Name
1	Asha G
2	BINIL VARGHESE JOHN
3	DHANYA O
4	Reshma E.S.
5	SREELEKHA S
6	Varsha KP


Dr Girish Chandran V

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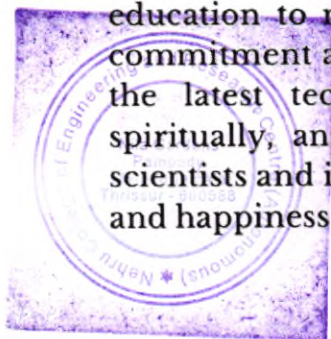
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Session/ Day	08:30 AM – 09:00 AM	Session 1 09:00 AM – 10:30 AM	Session 2 10:45 AM – 12:15 PM	Lunch Break 12:15 PM – 01:00 PM	Session 3 01:00 PM – 02:30 PM	Session 4 02:45 PM – 04:15 PM	Tutorial 04:30 PM – 05:30 PM
Day 1	Inauguration	Holistic Development and Role of Education	Self – Exploration, Happiness, Prosperity	Lunch Break & Informal Discussion with Participants by Volunteers	Harmony in Human Being, Story of Stuff	Harmony in Self, Discussion	Groups of 20 Participants Each
Day 2	Informal Sharing Session	Recap of Day 1, Prosperity - Health	Harmony in Family - Trust		Trust Contd., Harmony in the Family - Respect	Harmony in the Family – Other Feelings, Discussion	Groups of 20 Participants Each
Day 3	Informal Sharing Session	Recap of Day 2, Harmony in Society	Harmony in Nature		Harmony in Existence & Sum Up	Participants' Self- Evaluation	Valedictory Function

Inaugural Session (23.06.23 | 8:30 AM - 9:00 AM)

Welcome Address : Dr. Karibasappa Kwadiki, Principal, NCERC

Lighting of Lamp

Presidential Address : Adv. Dr. P. Krishnadas (Chairman & Managing Trustee, NGI)

Introductory Speaker : Shri. Deepesh A, Co-Facilitator

Vote of Thanks : Mrs. Radhika M, Asst. Professor, CSE



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Thiruvilwamala, Thrissur - 680588

Contact Us:

8075061417: Dr. Girish Chandran V (LPC)

Scan to Register:



www.ncerc.ac.in





Hodme NCERC <hodme@ncerc.ac.in>

Fwd: Invitation for Nomination of Faculty in UHV FDPs (ONLINE) to prepare Faculty Mentors for Student Induction Program (SIP)

Prof.Dr.karibasappa Kwadiki NCERC <principal@ncerc.ac.in>

Wed, Mar 22, 2023 at 1:42 PM

To: Hodcse NCERC <hodcse@ncerc.ac.in>, Hodeee NCERC <hodeee@ncerc.ac.in>, HOD ECE

<hodeceab@ncerc.ac.in>, Hodme NCERC <hodme@ncerc.ac.in>, HOD MECHATRONICS <hodmt@ncerc.ac.in>

----- Forwarded message -----

From: All India Council for Technical Education(no-reply) <admin@aicte-india.org>

Date: Wed, Mar 22, 2023 at 10:28 AM

Subject: Invitation for Nomination of Faculty in UHV FDPs (ONLINE) to prepare Faculty Mentors for Student Induction Program (SIP)

To: <principal@ncerc.ac.in>

Dear Sir/Madam,

Invitation for Nomination of Faculty for UGC-AICTE ONLINE FDPs on Universal Human Values

- To prepare Faculty Mentors for 3 weeks' mandatory Student Induction Program (SIP, Deeksharambh) and
- To prepare Faculty for teaching UHV-II (as recommended by AICTE in its Model Curriculum)

Each AICTE approved college is expected to prepare a minimum number of faculty to mentor students and to teach UHV. AICTE is happy to offer free online FDPs for this purpose. Only certified faculty members are eligible to teach the UHV courses. This is mentioned in the Approval Process Handbook also.

In this context, kindly:

1. Identify suitable faculty members from every department / branch / discipline to be prepared as Faculty Mentors for Student Induction Program (SIP) and for teaching UHV-II
2. Provide them duty leave to attend full-time. The FDP is full time 9:30 AM to 5:00 PM with daily assignments

Link for registration:

<https://fdp-si.aicte-india.org/verifiedProgramDetailsList.php>

• UHV INTRODUCTORY FDP for Teaching and Non-Teaching Staff:

- To prepare Faculty Mentors for Student Induction Program (SIP, Deeksharambh)
- **ELIGIBILITY:** Open for everyone

1. 27th March to 31st March - Hindi
2. 03rd April to 07th April - English
3. 17th April to 21st April - Hindi

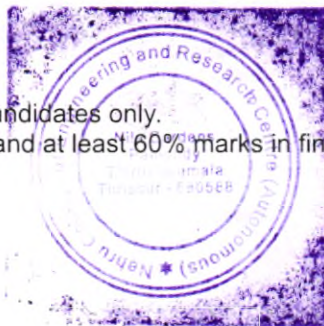
• UHV-II (6 DAYS)

- To prepare Faculty to teach UHV-II (as recommended by AICTE in its Model Curriculum)
- **ELIGIBILITY:** Faculty already having done at least one 3/5/7/8 days (Face to face FDP) or 5 days Online FDP are eligible to apply for this UHV-II.

1. 10th April to 15th April – English
2. 24th April to 29th April – English

UGC-AICTE will provide certificates to successful candidates only.
(at least 90% attendance, all quizzes, assignments and at least 60% marks in final test).

With warm regards
Dr. Neetu Bhagat
Deputy Director
Induction Program Cell
All India Council for Technical Education




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Thiruvilwamala, Thrissur - 680506

Email: ipc.pap@aicte-india.org
Phone: 011-2958-1013

BACKGROUND and DETAILS

Each AICTE approved college is expected to prepare a minimum number of faculty to mentor students and to teach UHV as follows:

- **Faculty for teaching UHV-I (part of 3 weeks Mandatory Student Induction Program, Deeksharambh) [1:60 at least]**

Minimum 1 faculty per 60 newly joined students. Faculty must be from each and every department.

- **Faculty for teaching 3-credit course on UHV-II [1:120 at least]**

Minimum 1 faculty per 120 newly joined students. Faculty must be from each and every department.

Minimum preparation by successfully completing at least one 7/8-day UHV FDP / 6 days online/ 5 days (face to face) UHV II FDP.

Suggestive Criteria for Selection of Potential UHV Faculty:

1. Is presently teaching in an institution of professional education or at least has a teaching background.
2. Is sincere, has a good rapport with the students, colleagues, staff as well as the management, alumni.
3. Has interest in values, is making effort to understand and live by values.
4. Is involved in academic, social and community activities as a volunteer (through the institution and/or privately).
5. Is open minded (not sectarian).

--

With Respect & Regards

Prof.(Dr).Karibasappa Kwadiki

Principal

Nehru college of Engineering & Research Centre

Thiruvilwamala, Thrissur(Dt), Pampady, Kerala - 680 588
04884-284000.Extn-243



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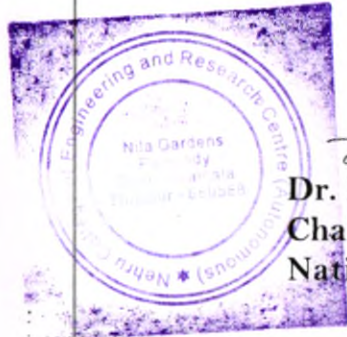

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ALL INDIA COUNCIL FOR TECHNICAL EDUCATION
NELSON MANDELA MARG, VASANT KUNJ, NEW DELHI

Certificate of Participation

This is to certify that Mr. Alex Kuruville from Nehru College of Engineering and Research Centre, Thrissur has participated and successfully completed the 3-day Face-to-Face FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) at Nehru College of Engineering and Research Centre, Thrissur from 23rd June to 25th June 2023.




Dr. Rajneesh Arora
Chairman
National Coordination Committee for Induction Program


Prof. Rajive Kumar
Member Secretary, AICTE


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Hodme NCERC <hodme@ncerc.ac.in>

Fwd: F2F 3D Workshop Assignment (Day 3) UHV-Introductory

alex.nsm <alex.nsm@ncerc.ac.in>
To: hodme@ncerc.ac.in

Fri, Dec 20, 2024 at 10:54 AM

----- Forwarded message -----

From: **Google Forms** <forms-receipts-noreply@google.com>
Date: Mon, 26 Jun, 2023, 09:00
Subject: F2F 3D Workshop Assignment (Day 3) UHV-Introductory
To: <alex.nsm@ncerc.ac.in>

Thanks for filling out F2F 3D Workshop Assignment (Day 3) UHV-Introductory

Here's what was received.

[Edit response](#)

F2F 3D Workshop Assignment (Day 3) UHV-Introductory


AICTE Incorporating Universal Human Values in Education

(Note: This assignment opens at 05:00 PM on day 3 and closes at 09:00 AM on day 4)

Email *

alex.nsm@ncerc.ac.in




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The email address, above, **MUST** be the same as the email address you have used to register on the AICTE portal

We will be unable to consolidate your transcript if a different email address is used or multiple email addresses are used

(use registered email address to log in to the webinar also)

Confirm Email Address *

alex.nsm@ncerc.ac.in

Select Workshop *

Kindly select the workshop, which you are attending.

☒ 23-25 June, 2023, UHV-Introductory FDP at NCERC, Thrissur, Kerala \$410

Salutation

☐ Prof.

☐ Dr.

☒ Mr.

☐ Ms

Name *

Kindly Enter Your Full Name

Alex Kuruvilla

About relationship

Discuss with your family, colleagues and share your conclusions

1. Each person has a different level of competence. There are many differences. But with these differences, what program can you make to ensure complementarity with every member of the family? *

No idea




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2. What program can you make in the institution to promote the effort for excellence in the students (and not competition)? *

(In excellence, one helps to bring the other to his/her level, in competition, s(he) hinders the other from reaching to his/her level)

We need competition

3. What efforts can be made in the institution to help the students understand the true meaning of love? *

Be with students

About society

1. What is the common goal of the organization you belong to? How does it map to the Human Goal? *

Moulding true citizens.. it's directly mapped

2. How can you and your organization contribute for ensuring right understanding and right feeling in the neighborhood of the institution? *

Taking care of students

3. Reflect on the process of education-sanskar in the family as discussed (imitation, following, obedience..). Can you see a similar thing in your family? Write a few sentences to comment on. *

No




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About nature

Mention any five programs each that you can make to ensure mutual fulfillment with the Nature:

1. As an individual

Love trees

2. As an organization

Love plants

3. As a part of society

Love trees

Additionally, you may like to watch the 2005 documentary “An Inconvenient Truth” Available on YouTube.

Program of Action - INDIVIDUAL

Please reflect on what you can do for refining, reviewing right understanding and right feeling at your personal level (for yourself). This you do not need to share, unless you wish to

Please reflect *

No

Program of Action – COLLECTIVE

Please reflect on what AICTE can do for developing right understanding and right feeling in the teachers and students of technical education in the Nation.

Please reflect *




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Nothing

AICTE has taken the lead starting with the following:

(1) 15-sessions of UHV (called UHV-I) during a 3-week induction program – this has been made mandatory and faculty development is included as a requirement in the 2020 approval handbook

(2) 28-lectures and 14 practice sessions 1-semester credit course (called UHV-II) during the 3rd/4th semester – this is mentioned in the model curriculum and recently a letter was sent from AICTE to all colleges to make it mandatory. The colleges look towards the university to decide their curriculum, so some effort may still be required before the course is run in colleges effectively

For both, 1 and 2, to be realized, faculty has to prepare themselves. AICTE has made a tremendous effort for this and more is yet required for a visible, sea change. Please reflect on how you can be of help, how you want to participate in this effort. *

Not interested

[Create your own Google Form](#)

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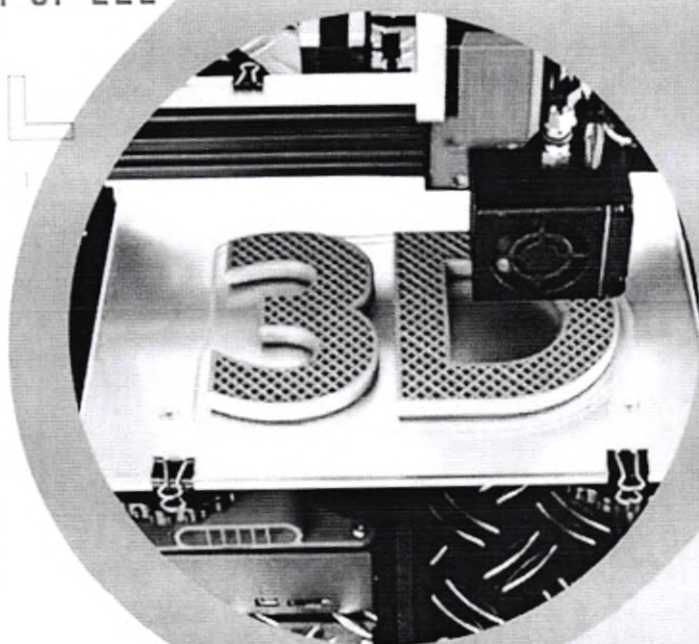


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DEPARTMENT OF EEE



WORKSHOP
ON

3D PRINTING



5TH & 6TH MARCH -2024



EEE CLASSROOM, ARYABHATTA



RESOURCE PERSON



VIDYASAGARAN P



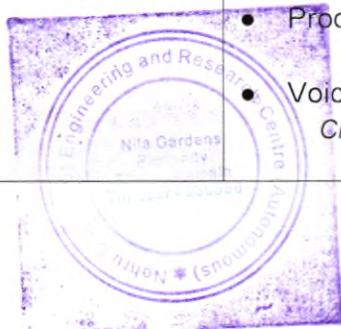
Since 1968





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Carrier profile

Name	VIDYASAGARAN P (Sagar)
Main Strengths	Demonstrated expertise in realising award winning products, which were successful in the market, from basic product ideas. Understands the fundamentals of developing complex products with reliability
Qualifications	MS (Computer Science & Engineering, IISc, Bangalore) BS (Electrical Engineering, University of Calicut)
Experience	35 Years in communications software development industry <i>Joined Ericsson R&D Bangalore as the first member. Setup and ran multiple teams Setup and managed several offshore Data/Voice communication product development centres for US companies.</i>
Companies	Wipro Systems Ltd., Bangalore (1989-1990) <ul style="list-style-type: none"> Consultant Architect - Lynx Real-time Systems, USA (now LynuxWorks) MultiTech Software Systems India Private Limited, Bangalore (1990-2010) <ul style="list-style-type: none"> Co-founder and Vice President handled multiple responsibilities. Deliveries, Talent development, Business development, Human Resources Consultant Delivery and Program manager - Texas Instruments, USA Ericsson India – Director, engineering (2010-2018) <ul style="list-style-type: none"> Ericsson India Bangalore R&D team seed member Head of India IP Routers R&D (more than 400 engineers) Head of Media R&D (Setup team of 32 engineers) VNJ Systems, LLP - VP and Managing Partner (2019 onwards) <ul style="list-style-type: none"> Head of product development for Underwater communications
Expertise - Technical	<ul style="list-style-type: none"> Microprocessors, MicroControllers, SoCs. <i>Intel, Motorola (68K, PPC), ARM (7,9) and MIPS</i> Embedded Systems, Operating Systems, Voice over Packet Solutions. <i>Implementing UNIX/Linux device drivers, Boot loaders, Porting OS, board bring-up, board and silicon verification at system/product level</i> Lead Architect for Multi-protocol Routers, Proxy Servers, Firewall products. <i>Motorola 68K and PowerPC based multi-protocol routers and access products. Board bring-up, boot loader, ROM monitor, network stacks, field upgrade/debug features</i> Product design, implementation, upgrade and sustenance. <i>Voice/Data integrated home gateways with ADSL/Cable/Modem interfaces</i> Voice over IP (VoIP) silicon demo products (for TI – a decade long relation) <i>Created commercial quality demonstration products for several silicons (Orion, Titan, Petra) from Texas Instruments</i>




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Expertise - Management/Business	<ul style="list-style-type: none"> • Customer account planning and management. • People and HR Strategy and Training. • Creating and managing high performance teams • Extensive offshore project, product and program management • Starting up and running India development organisations for MNCs
Key Achievements	<ul style="list-style-type: none"> • US Patents in Local Area Network modem node and Internet Proxy Server (US Patents #5,724,356 and #H2,065) • Architected numerous Networking products for clients • Led teams to win several product-awards (including the prestigious Editors' choice award from Network Computing) <div data-bbox="668 727 1172 961"> </div> <ul style="list-style-type: none"> • Created several Technical and Management leaders in the team • Developed customer account - 0 to 1.3 Million USD/year (Texas Instruments) • Managed multiple offshore development centres for two decades • Delivered high quality products with complete software responsibility • Long standing customer relationships • Represented customers in front of their customers




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3D PRINTING

What is 3D printing, why you should learn it?

3D printing is a manufacturing process that creates three-dimensional objects by layering materials, usually plastic, resin, metal, or other materials, based on a digital model. It's also known as *additive manufacturing*, as it builds objects layer by layer.

Learning 3D printing can offer several advantages:

1. **Innovation and Prototyping:** Quickly create prototypes or models of designs, visualize and test concepts before mass production.
2. **Customization and Personalization:** Customization of products, such as personalized items, medical implants tailored to specific patients, or customized parts.
3. **Education and Skill Development:** Enhance your technical skills and understanding of modern manufacturing methods. It introduces you to design software and techniques of additive manufacturing.
4. **Entrepreneurship and Business Opportunities:** With the rise of 3D printing, there's a growing market for individuals who can create and offer unique 3D-printed products or services. It opens doors to entrepreneurial ventures and small-scale manufacturing opportunities.
5. **Industrial Applications:** Industries such as aerospace, automotive, healthcare, and architecture are increasingly utilizing 3D printing for rapid prototyping.
6. **Creativity and Artistry:** 3D printing as a medium for artistic expression, creating intricate sculptures, jewellery, and other art forms.

Advantages in learning 3D printing.

1. More Job opportunities

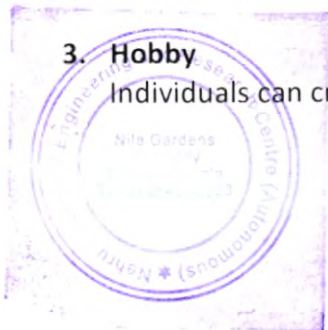
As 3D printing becomes more affordable, industries will take on more in-house activities for prototyping. This will create more opportunities for people with skills in 3D printing.

2. Your own Business opportunities

You can setup your own 3D printing services business to help other businesses in fast prototyping and 3D printing as a service.

3. Hobby

Individuals can create objects as part of their hobby.




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What you will Learn in this Workshop

3D printing involves the creation of computer models of objects, slicing these models horizontally, and printing the sliced model. This workshop covers each of these stages.

1. Computer Modelling – Creating Object Models in Computer-Aided Design (CAD):



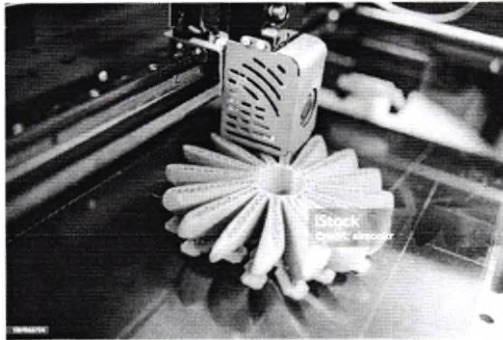
We will utilize an open-source software called OpenSCAD for creating object models on the computer. OpenSCAD allows the easy creation of geometric models. This software provides a straightforward programming interface to design both 2D and 3D objects. It supports various operations like rotation, translation, extrusion, and more on simple objects, enabling the creation of complex objects. Additionally, it facilitates operations like difference and union on objects.

2. Slicing the Model:

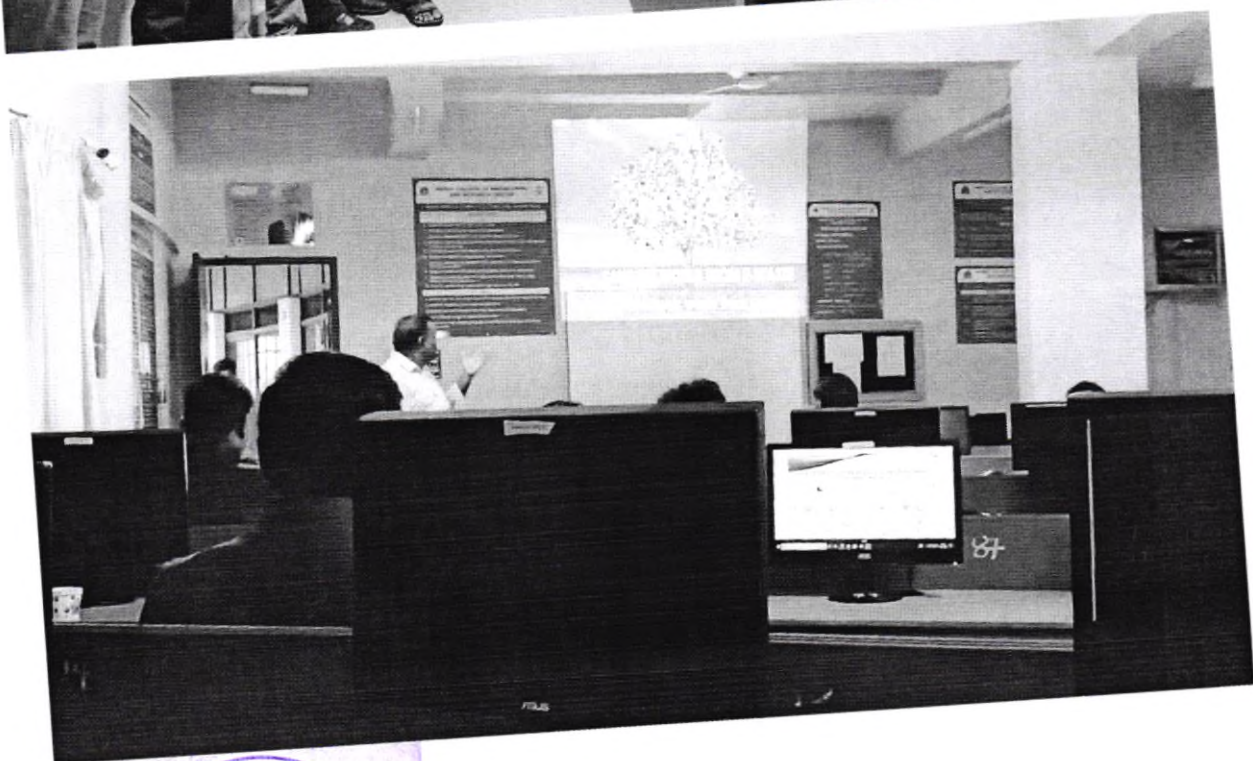
Once a 3D object model is created, it needs to be sliced to enable a 3D printer to print it layer by layer. We will utilize a free software program called Cura to perform this essential task.

3. 3D Printing the Object:

The sliced object that we have designed will be transferred to a 3D printer, and the printing process will be initiated.




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CERTIFICATE

OF PARTICIPATION

THIS CERTIFICATE IS AWARDED TO

MOHAMMED HISHAM

For the valuable participation during the two day Hands on Workshop " 3D PRINTING " Organized by
Department of Electrical and Electronics Engineering, Nehru College of Engineering and Research Centre, Thrissur
on 5th & 6th March 2024.

Resource Person -
Mr.VIDYASAGAR P. (Rtd. Vice President Engineering, MultiTech Software Systems)

Prof. Dr. Anto Francis Cherussery

Faculty Co-Ordinator
NCERC

Prof. Dr. Sobha Manakkal

HOD. EEE DEPT
NCERC

Prof. Dr. Karibasappa Kwadiki

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THIS CERTIFICATE IS AWARDED TO

MUSHARAF K. S.

For the valuable participation during the two day Hands on Workshop " 3D PRINTING " Organized by
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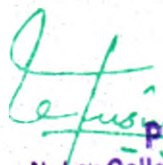
Prof. Dr. Sobha Manakkal

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Prof. Dr. Karibasappa Kwadiki

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