

REPORT ON
FACULTY DEVELOPMENT PROGRAM ON “TOOLS FOR ENGINEERING
RESEARCH” DURING 19TH SEPTEMBER 2022 TO 23RD SEPTEMBER 2022

INVITATION



**K.RAMAKRISHNAN
COLLEGE OF ENGINEERING**

(An Autonomous Institution)

(Approved by AICTE & Permanently Affiliated to Anna University)

Accredited by NAAC with 'A' Grade

ISO 9001: 2015, 14001-2015 Certified and MHRD NIRF ranked Institution

Samayapuram, Tiruchirappalli - 621 112

website: www.krce.ac.in



RESEARCH AND DEVELOPMENT CELL

in collaboration with

National Institute of Technical Teachers Training & Research (NITTTR),
Chandigarh

&

KRCE - IEEE STUDENT BRANCH

organizes

Five days Faculty Development Programme on

Tools for Engineering Research

From 19th to 23rd September 2022

Time : 9.00am - 4.30pm

Venue: Teaching Learning Centre, KRCE

Mr.A.Subramaniya Siva
IEEE SB Advisor

Dr. K. Dhayalini
IEEE SB Counselor

Dr.C.Jeyalakshmi
Coordinator - R&D

Dr. D. Srinivasan
Principal

Dr. S. Kuppusamy
Executive Director

Dr. K. Ramakrishnan
Chairman

All are invited



BROCHURE

Organizing Committee

PATRONS

Dr. K. Ramakrishnan,
Chairman,

K. Ramakrishnan Group of Institutions

Dr. S. Kuppusamy,
Executive Director

K. Ramakrishnan Group of Institutions

Dr. D. Srinivasan,
Principal,

K. Ramakrishnan College of Engineering

COORDINATORS

Dr. C. Jeyalakshmi, M.E., Ph.D

Coordinator - Research & Development

Dr. K. Dhayalini, M.E., Ph.D

IEEE Student Branch Counselor

Mr. A. Subramaniya Siva, M.E., (Ph.D)

IEEE Student Branch Advisor

For further correspondence contact

The Coordinator,

FDP - TER,

K.Ramakrishnan College of Engineering,

Samayapuram,

Tiruchirappalli, Tamilnadu - 621112.

Contact No: 9952877028, 9791654178



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Faculty Development Programme on Tools for Engineering Research

19.09.2022 - 23.09.2022



Organized by

Research and Development Cell

in Association with



NITTR, Chandigarh



STB64616

IEEE

KRCE - STUDENT BRANCH

ABOUT THE INSTITUTION

K.Ramakrishnan College of Engineering aspires at the upliftment of our future engineers. It is a happy note that KRCE has emerged as one of the leading and fast-growing institutions in India over a span of twelve years since 2008. The college consistently is on the move and we encourage independent thinking which helps students in developing holistic perception, strong domain knowledge, contemporary skill sets and positive attitude. The management bestows its fullest support in terms of knowledge, infrastructure & environment to achieve its excellence. Our students have been achieving tremendous results in academics, sports and extra-curricular activities.

KRCE blends into the tranquil and eco-friendly ambience for ideal teaching and learning. With the noticeable and evolutionary furtherance of the institution, AICTE has approved the college and affiliated to Anna University Chennai in 2008 and got permanent affiliation in 2019 for all UG programmes along with MBA. In trail with the above, the college has been accredited 'A' grade by NAAC with 3.10. Following which the college has been approved with ISO 9001:2015 and ISO 14001:2015 Green Campus Certification in 2018 and 2019 respectively. KRCE got NBA for all three applied courses in 2019 (ECE, EEE, Mechanical). The college received 3 stars in 2019 and 4 stars in 2020 from IIC - MHRD. To add another gem in the crown of KRCE, the college got its autonomous status in 2020 conferred by UGC and the college got ARIIA Rank with Band B Category (26 -50) released by MHRD. Recently, the college was awarded QS I-GAUGE ELEAD Certification in the year 2021.

ABOUT THE RESEARCH & DEVELOPMENT CELL

KRCE is embarked with the vision of being a social partner for the development of our country through its involvement in research, having attributed novel technology in research and development activities. The R & D team of K.Ramakrishnan College of Engineering is committed to excellence in the research. The dedicated research team adds its strength and spreads its roots over diverse areas like Big Data, Cloud Computing, CAD/CAM, Virtual reality, Information Technology, Knowledge Management, Networking, VLSI and Antenna design, Signal Processing and Artificial Intelligence. Having realized a dire scope and demand of research in the emerging fields, these key ultra-tech disciplines are focused to bring out the desired results for the betterment of the society. In our institution three departments namely ECE, EEE and MECH have been recognized as Research centers by Anna University, Chennai to do PhD/MS by research.

RESOURCE PERSON

The sessions will be handled by the faculties from NITTR and reputed institutions.

ELIGIBILITY

Faculty members from all Engineering disciplines.

REGISTRATION FEE

There is **no registration fee** for any participant, provided they should choose K. Ramakrishnan College of Engineering, Tiruchirappalli as Remote Centre.

HOW TO REGISTER

All participants need to register online at <https://tdp.nittrchd.ac.in/backingup/> on or before 16.09.2022 (5:00pm)

Procedure for Registration of the course after registering as participant

Login as participant

Click Apply for STC on Left-hand side

Select department as Electrical Engineering

Select mode of course as online mode

Click submit

Next choose the course ID ICT-39 on the title Tools for Engineering Research

In the online application form

Select occupation as Faculty/lecturer/ instructor/Technical staff

Select the venue from where you want to attend the course : From registered remote Centre

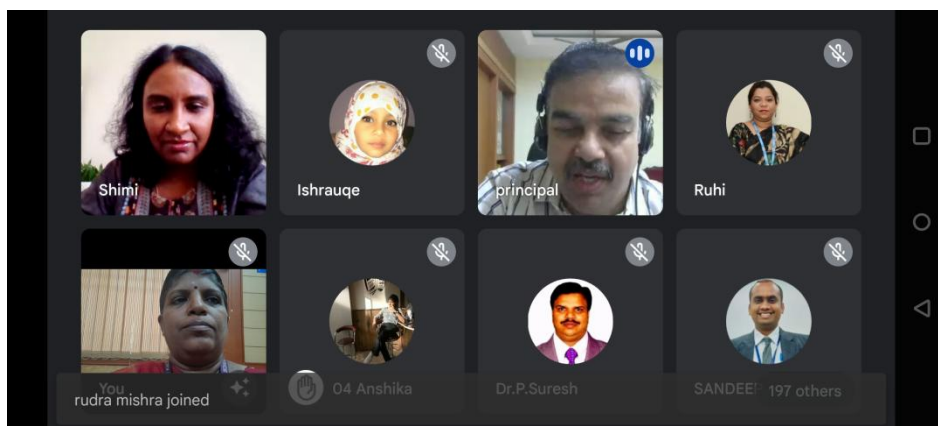
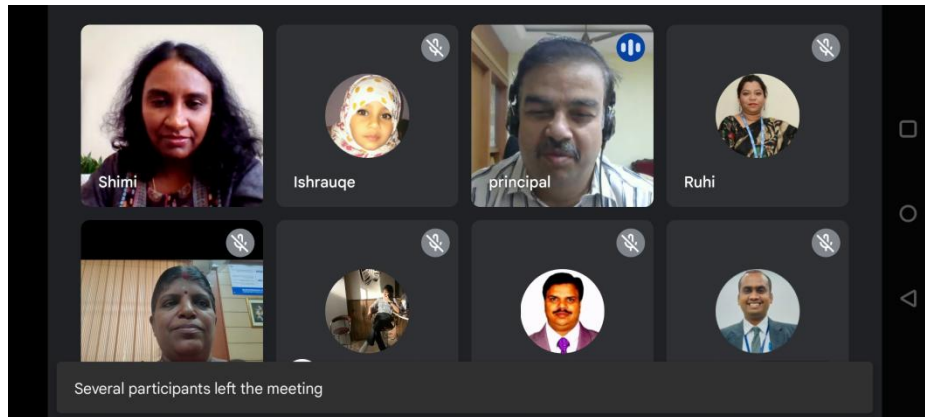
In the drop down - select K. Ramakrishnan College of Engineering, Tiruchirappalli, Tamilnadu.

Mark AICTE approved institution as Yes

Then submit.

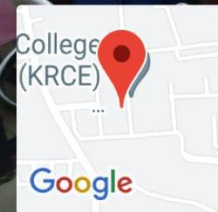
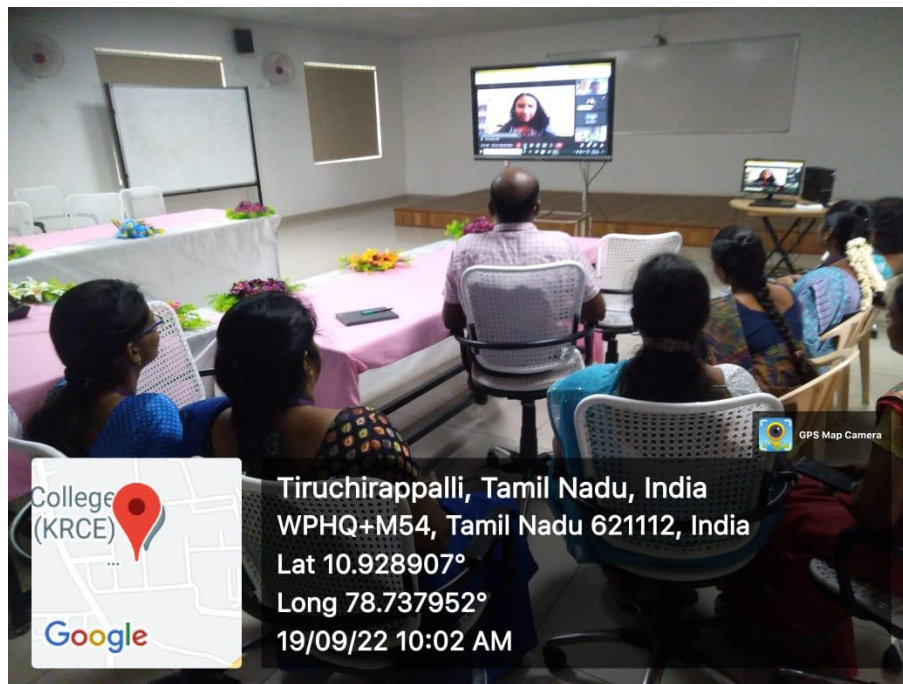


PHOTOS

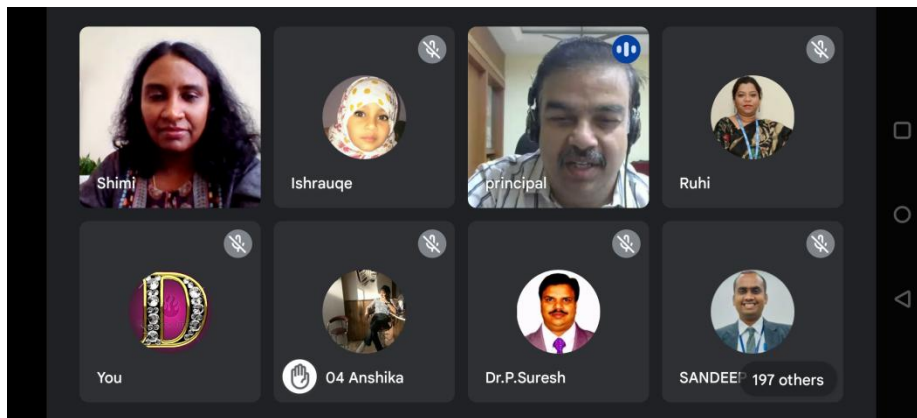




Tiruchirappalli, Tamil Nadu, India
WPHQ+M54, Tamil Nadu 621112, India
Lat 10.928902°
Long 78.737952°
19/09/22 09:49 AM



Tiruchirappalli, Tamil Nadu, India
WPHQ+M54, Tamil Nadu 621112, India
Lat 10.928907°
Long 78.737952°
19/09/22 10:02 AM



SCHEDULE

National Institute of Technical Teachers Training and Research, Chandigarh Electrical Engineering Department

Online STC on

‘Tools for Engineering Research’, during 19th to 23rd September 2022

TIME-TABLE

DAY & DATE	Live Session - 1 9.30 AM to 11.00 AM (IST)	Live Session - 2 11.30 AM to 1.00 PM (IST)	Live Session - 3 2.30 PM to 4.00 PM (IST)
Monday 19/09/2022	Plagiarism, Mendeley (SSL)	Research Project Proposal preparation and implementation : Case study on real time projects at CSIO (BB)	Artificial Intelligence and optimization for Engineering Research (SSL)
Tuesday 20/09/2022	Acquiring data from hardware through IoT, Pre processing , statistical Analysis and visualization (JS)	Feature Engineering Analysis, selection and model building using Machine learning Techniques (JS)	Human Inspired Optimization Algorithm (RK)
Wednesday 21/09/2022	Reliability Evaluation of Restructured Power System with Integration of RES and Electric Vehicle (SK)	Big Data analytics for Electrical Engineering (SSL)	Research, Innovation and IPR (PS)
Thursday 22/09/2022	LaTeX software (MAS)	LaTeX software (MAS)	RTI and Hardware validation for research problem (SSL)
Friday 23/09/2022	Result Oriented Papers, Comprehensive Literature Review (CLR): Rules, Types (Methodological, Historical, Theoretical etc.), Structure & Organization with Examples (JS)	Systematic Literature Review: Understanding PRISMA Flow Guidelines, Formation of Search Query, Identifying Literature from Databases, Screening, Organizing; Rules and Techniques with Examples (JS)	STC Valediction, Feedback and Evaluation (SSL)

SSL : Dr. Shimi S.L, Assistant Professor, Electrical Engineering, NITTTR, Chandigarh

BB : Dr.Babankumar Bansod, Senior Principal scientist & Professor, CSIR-CSIO, India

JS: Dr. Jagriti Saini, Founder Eternal RESTEM, Sunder Nagar, HP

RK : Dr. Rishemjit Kaur, Principal Scientist, Centre of Excellence for Intelligent Sensors and Systems (ISenS), CSIO, Chandigarh

SK : Dr. Sheeraz Kirmani, Associate Professor, Aligarh Muslim University, Aligarh

PS : Prof. Poonam Syal, Professor , Rural Development, NITTTR, Chandigarh

MAS: Prof. Mohmad Ishak A Sheikh, Electrical Engineering Department, Government Engineering College, Dahod

Course Coordinator: Dr. Shimi S.L, Assistant Professor, Electrical Engineering Department, NITTTR Chandigarh

Remote Centre Coordinator: Dr. Dhayalini. K, Professor, Department of EEE, K.Ramakrishnan College of Engineering, Samayapuram, Tiruchirappalli.

REQUEST LETTER



Dr. Dhayalini Balakrishnan <dhaya2k@gmail.com>

Nodal centre request for STC on 'Tools for Engineering Research' during 19th to 23rd September 2022

Dr. Shimi S.L <shimi.reji@nitttrchd.ac.in>
To: dhaya2k@gmail.com

Tue, Sep 6, 2022 at 5:12 PM

Dear Sir/Madam,

We request you to become a nodal center for the below STC.

The Electrical Engineering department at the National Institute of Technical Teachers Training and Research is organizing a one week STC on 'Tools for Engineering Research' during 19th to 23rd September 2022

We request you to act as nodal centre for your region.

The main contents of the program will be:

1. Data pre-processing, statistical analysis and model building
2. Research paper writing and IPR
3. Hardware validation
4. Research project proposal writing

The program will be conducted using Google meet and Google Classroom.

All participants at your centre need to register for the course using the below link once your centre is added in our website.

<https://fdp.nitttrchd.ac.in/backingup/index.php>

For participants at nodal centre the course is free.

Kindly send the following details.

Name of the Remote Centre	Coordinators' name with address and Mobile Number / E-mail ID
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With Warm Regards,

Dr. Shimi S.L
Assistant Professor, Electrical Engineering,
NITTTR, Chandigarh 160019
Mobile : 09417588987

PARTICIPANTS LIST

List of Participants registered in Short Term Courses on Tools for Engineering Research from 23/05/2022 to 27/05/2022 at K. Ramakrishnan College of Engineering, Tiruchirappalli, Tamilnadu

S. No.	Application ID	Name(in Eng)	Institute(in Eng)	Institute Place	Designation	Email	Mobile
1	ICT-392294519	A JERALDINE VIJI	MAILAM ENGINEERING COLLEGE	VILLUPURAM	PROFESSOR	jeraldrovan@gmail.com	9677445543
2	ICT-392294345	CHELLAMUTHU. K	K. RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	chellamuthukmeh@krce.ac.in	9944264256
3	ICT-392294824	D NALINI	JJ COLLEGE OF ENGINEERING AND TECHNOLOGY	TRICHY	ASSOCIATE PROFESSOR	nalinataraj83@gmail.com	9445489184
4	ICT-392294329	DR P SATHEES LINGAM	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	satheeslingamme@gmail.com	9487649424
5	ICT-392296524	DR.A.KANIMOZHI	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	kanimozhiamba@krce.ac.in	9698548428
6	ICT-392294925	DR.A.PREMAVASUMATI	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	mba@krce.ac.in	9942139718
7	ICT-392294325	DR.C.JEYALAKSHMI	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	PROFESSOR	lakshmikrce.2016@gmail.com	9942433561
8	ICT-392293937	DR.K.DHAYALINI	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	PROFESSOR AND HEAD	dhaya2k@gmail.com	9952877028
9	ICT-392294447	DR.K.PRIYADARSHINI	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	PROFESSOR	kpriyaanilesh@gmail.com	9894758355
10	ICT-392294938	DURGADEVI A	K RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	durganathan8588@gmail.com	9003770701
11	ICT-392294333	E.HEMALATHA	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	hema1210yadhav@gmail.com	8754400736
12	ICT-392294477	IMAYAVAN B	K RAMAKRISHNAN COLLEGE OF ENGG	TRICHY	ASSISTANT PROFESSOR	imayavan@krce.ac.in	9489150730
13	ICT-392294911	IMMANUVEL BRIGHT E	ERODE SENGUNTHAR ENGINEERING COLLEGE	TRICHY	ASSISTANT PROFESSOR	immanuvelbright@gmail.com	9841788501
14	ICT-392295026	INFANT SEBASTIN PRABUM	K RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	christfamilyfellowship19@gmail.com	8072544692

15	ICT-392294466	JANET MARY PORTIA P	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	Janet@krce.ac.in	9629998494
16	ICT-392294327	JANU PRIYA S	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	janukrce3@gmail.com	9629803698
17	ICT-392294879	JAYASATHYAKA WIN S	K. RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	RESEARCH SCHOLAR	kawinsathya@gmail.com	9940784970
18	ICT-392294313	KALAIVANI M	K RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	kalaivanimece@gmail.com	9751441582
19	ICT-392294679	KAMALITTA R	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	kamalittaalbert@gmail.com	9786415364
20	ICT-392294868	KARTHIKEYAN S	JJ COLLEGE OF ENGINEERING AND TECHNOLOGY	TRICHY	ASSISTANT PROFESSOR	sk150880@gmail.com	9894283282
21	ICT-392294946	KARTHIKEYAN P	K RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	karthihve@gmail.com	7200241122
22	ICT-392294460	KEERTHANA S	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	Keerthanasmba@krce.ac.in	7598425077
23	ICT-392294517	M.SENTHIL KUMAR	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	msenthilkumarme87@gmail.com	9600859693
24	ICT-392294732	MAHIMA R	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	mahi.rmc7@gmail.com	9486886734
25	ICT-392296531	MALINI P	K RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	malinittp1995@gmail.com	9843806807
26	ICT-392294636	MANIVASAGAM R	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSOCIATE PROFESSOR	manivasagammn3@gmail.com	8870741983
27	ICT-392294386	MRS. R. MANIMEGALAI	K. RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	manimegalaiparthiban@gmail.com	9500423238
28	ICT-392294487	MURALIKRISHNAN P	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	krishnangceb@gmail.com	9976118670
29	ICT-392294312	RADHA	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	radha1290@gmail.com	9940844795
30	ICT-392294675	RAJESWARI S	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	srajes84@gmail.com	9787887445
31	ICT-392294820	RATHI DEVI P	JJ COLLEGE OF ENGINEERING AND TECHNOLOGY	TRICHY	ASSISTANT PROFESSOR	rathidevirajan@gmail.com	9655775222

32	ICT-392294321	ROSELIN SUGANTHI J	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	rose0889@gmail.com	9715723225
33	ICT-392294751	S. RAJAPRIYA	K. RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	rajapriyaselvaraj@gmail.com	9944168238
34	ICT-392296529	SHANMUGA SUNDARI T	K. RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	RESEARCH SCHALOR	sundnishaa73@gmail.com	9894366230
35	ICT-392294355	SIVANANTHAM N	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	n.sivanantham@gmail.com	9943799747
36	ICT-392294865	SUBRAMANIYA SIVA A	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	npksiva.ss@gmail.com	9791654178
37	ICT-392294458	SUJITHA V	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	Sujithavmba@krce.ac.in	9972308719
38	ICT-392296076	SURYA P	K. RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	suryakps01@gmail.com	9688323216
39	ICT-392294638	U RAMANI	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	ramani.u6@gmail.com	9629591060
40	ICT-392294336	VIDYA A	K.RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	vidhy.vidya@gmail.com	6369500660
41	ICT-392296538	VIGNESHWARAN	K. RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	ASSISTANT PROFESSOR	vigneshgemini@gmail.com	8220009592
42	ICT-392296687	MAHESWARI M	K. RAMAKRISHNAN COLLEGE OF ENGINEERING	TRICHY	PROFESSOR	kousi.rhithi@gmail.com	8940573868

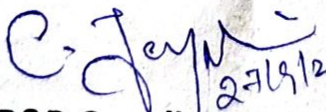
REPORT

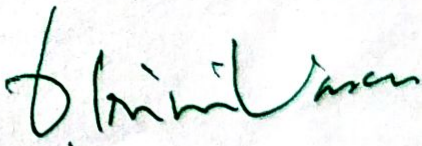
The Research and Development cell in association with KRCE-IEEE Student branch organized five days Faculty Development Program on "Tools for Engineering Research" in collaboration with National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh and K. Ramakrishnan College of Engineering as Remote Centre during 19th September 2022 to 23rd September 2022. During the inauguration our Principal Dr.D.Srinivasan felicitated the gathering by briefing about our institution. Nearly 42 participants registered for the FDP from various colleges and from K. Ramakrishnan College of Engineering.

On each day the sessions are handled by experts from reputed and renowned institutions. The speakers are Dr. Shimi S.L, Assistant Professor, Electrical Engineering, NITTTR, Chandigarh, Dr.Babankumar Bansod, Senior Principal Scientist & Professor, CSIR-CSIO, India, Dr. Jagriti Saini, Founder Eternal RESTEM, Sunder Nagar, Himachala Pradesh, Dr. Rishemjit Kaur, Principal Scientist, Centre of Excellence for Intelligent Sensors and Systems (ISenS), CSIO, Chandigarh, Dr. Sheeraz Kirmani, Associate Professor, Aligarh Muslim University, Aligarh, Prof. Poonam Syal, Professor, Rural Development, NITTTR, Chandigarh, Prof. Mohmad Ishak A Sheikh, Electrical Engineering Department, Government Engineering College, Dahod. The five days FDP delivered clear knowledge on writing research papers and proposals for faculty members and research scholars.

Totally 42 participants attended the five days FDP and all the attended participants received certificates from NITTTR Chandigarh. The FDP was coordinated by Dr. C. Jeyalakshmi, Coordinator, R&D cell and Professor, Department of ECE, Dr.K. Dhayalini, IEEE Student Branch Counselor and Professor, Department of EEE and Mr. A. Subramaniya Siva, IEEE student Branch advisor and Assistant Professor, Department of EEE.


27/9/22
Event Coordinator
Dr.K.Dhayalini


27/9/22
R&D Coordinator
Dr.C.Jeyalakshmi


Principal
Dr.D.Srinivasan

PRINCIPAL
K. Ramakrishnan College of Engineering
(Autonomous)
Samayapuram, Tiruchirappalli - 621 112.