

K. S. INSTITUTE OF TECHNOLOGY

BANGALORE

Ref: KSIT/Com/6183/2021-22

Date: 16.09.2020

CIRCULAR FORMATION OF VARIOUS COMMITTEES FOR THE ACADEMIC YEAR 2021 - 22

The following committees have been formed for the academic year 2021-22, to take care of the various activities in c Institution.


Sl.No	Committee	Responsibility	Members
1	Cultural Committee	Cultural Events, Teachers Day, Engineers Day, Graduation Day and other important functions.	Dr. M.Umashankar, MED, Co-ordinator Mr. Anil Kumar.A, MED Mr. Rangantha.N, MED Dr. Sangappa, ECE Mr. Sunil Kumar.G.R, ECE Ms. Sangeetha.V, ECE Ms. Pooja.S, ECE Mr. Satish Kumar.B, ECE Dr. K.Venkata Rao, CSE Mr. Roopesh Kumar.B.N, CSE Mr. Raghavendrachar.S, CSE Ms. Beena.K, CSE Ms. Anu Mathews, AI & ML, Mr. Sunil Kumar.N, BS & H Ms. Anuradha.M.V, BS & H
2	Sports Committee	Conducting Sports activities, Intra-mural games, Inter-Collegiate/university/interstate sports, Sports Day etc... and sport related issues.	Mr. Umesh.S, PED, Coordinator Dr. Nagaprasad.K.S, MED Mr. Christo Jain, ECE Mr. Dileep.J, ECE Mr. Roopesh Kumar.B.N, CSE Mr. Kiran Kumar.S.R, BS & H Students Representatives
3	Training & Placement Cell Committee	Placement activities, calling companies for conducting interview / On the campus / off the campus and mock interview & Personality Development Programme, organizing training programme.	Dr. Harish, TPO, Co-ordinator Mr. Harish.U, MED Mr. Sunil Kumar.G.R, ECE Mr. Praveen.A, ECE Mr. Krishna Gudi, CSE Ms. Swapna Gopala Jois, CSE Mr. Manoj Kumar.S, CSE Ms. Shylaja.K.R, BS & H
4	R & D Committee	The Committee has to monitor the research interests of faculty and encourage submissions for funding from various agencies like VGST, DST etc. Organize necessary talks, training programmes.	Dr. B.Surekha, ECE, Co-ordinator Dr. L.Nirmala, MED Dr. B.Sudarshan, ECE Dr. Dayananda.R.B, CSE Dr. Deepa.S.R, CSE Dr. Vaneeta.M, CSE Dr. Renuka.C, BS & H
5	Alumni Committee	Formation of committee. Committee has to arrange meet once in six months and give suggestions on placement activities, according to the existing scenario. Conducting of orientation/seminars/workshops programme for students. Organizing Graduation Day.	Mr. Anil Kumar.A, MED, Co-ordinator Mr. K.Prasad, MED Dr. Rekha.N, ECE Ms. Jayasudha.B.S.K, ECE Mr. Prashanth.H.S, CSE Ms. Beena.K, CSE Mr. Venkataramana.B.S, BS & H

6	Disciplinary & Anti Ragging Committee ✓	Restriction of usage mobile in the campus, monitoring Dress Code, grievances & anti-ragging, control of students, talking in the corridors & disturbing classes. Strict implementation of rules & regulations laid by Govt. of Karnataka & VTU in and around the College. Enquiry to be called if any case reported. Report to be submitted to the Principal with their recommendations. Monthly report needs to be submitted with Minutes and action taken	Dr. Girish.T.R, MED, Co-ordinator Dr. Sangappa, ECE Mr. Christo Jain, ECE Mr. Harshavardhan.J.R, CSE Mr. Sanjoy Das, CSE Mr. Sunil Kumar.N, BS & H Ms. Vasantha.M, Library Mr. Umesh.S, PED Mr. A.Balakrishna Naidu, Hostel Supervisor, Students Representatives
7	Academic Committee ✓	Attendance / IA / Counselling, students' handbook, Calendar of events. Monitoring all the department activities with regard to attendance, I.A. Progress report of students, results, Students feedback (to be monitored by inter department) etc....	Dr. M.Umashankar, MED, Co-ordinator Mr. K.Prasad, MED Dr. B.Devika, ECE Mr. Kushal Kumar.B.N, CSE Mr. Krupesha.D, AIML Mr. Sunil Kumar.N, BS & H Ms. Jyothi.C, Exam Section
8	Mentoring Committee ✓	Monitoring, scheduling the mentors meeting, providing the information to parents and students, one to one interaction.	Mr. Kushal Kumar.B.N, CSE, Co-ordinator Mr. K.Prasad, MED Mr. Praveen.A, ECE Mr. Dileep.J, ECE Ms. Sougandhika Narayan, CSE Ms. Anu Mathews, AIML Mr. Sunil Kumar.N, BS & H
9	Grievances & Student Welfare Committee/ ✓	Students / Staff Redressal and also work with Disciplinary & Anti Ragging Committee. Monthly meeting to be conducted and record the action taken.	Dr. K.Venkata Rao, CSE, Co-ordinator Dr. M.Umashankar, MED Dr. Saleem Khan, MED Dr. Devika.B, ECE Ms. Aruna Rao.B.P, ECE Ms. Anu Mathews, AI & ML Mr. Kushal Kumar.B.N, CSE Mr. Sunil Kumar.N, BS & H Students Representatives
10	Anti Sexual Harassment Committee ✓	Ours is Co-educational Institution, the committee has to set right the grievances / complaints raised by the girl students. Need to protect gender policy. Formulate committee as per VTU Norms	Dr. Chanda.V.Reddy, ECE, Co-ordinator Dr. Girish.T.R, MED Dr. L.Nirmala, MED Ms. Sangeetha.V, ECE Mr. Harshavardhan.J.R, CSE Dr. Vijayalaxmi Mekali, CSE Ms. Neelam Patil Radhika, BS & H Ms. M.Vasantha, Library Students Representatives – One / dept.
11	Technical Bodies & Technical Activities Committee	Conduction of ISTE & IEI Chapters, Registration of students every year. Conducting of events, seminars... Formation of Technical Associations, Registration of students every year, Conducting of events, seminars, Guest Lecturers / Special Invitees...etc. under association banner ✓ IETE ✓ ISTE ✓ IEEE ✓ CSI	<u>Co-ordinators:</u> ISTE – Dr. Sangappa, ECE, IEI – Mr. Ranganath.N, MED, IETE – Dr. Dinesh Kumar.D.S, ECE, CSI – Dr. Deepa.S.R, CSE SAE – Dr. Nagaprasad.K.S, MED, IEEE – Mr. B.R.Santhosh Kumar, ECE BITES – Dr. Vaneetha.M, CSE Satellite Club–Mr.Saleem.S.Tevaramani, ECE <u>Members:</u> Mr. M.Nagabhushana, MED Mr. Anil Kumar.A, MED Mr. Sunil Kumar.G.R, ECE, Garud Club Mr. Praveen.A, ECE Ms. Sangeetha.V, ECE Mr. Dileep.J, ECE Mr. Kumar.K, CSE, Hackathon

			<p>Ms. Beena.K, CSE, Toycathon</p> <p>Ms. Swapna Gopala Jois, CSE</p> <p>Mr. Krupesha.D, AI & ML</p> <p>Ms. Lakshmi.C, BS & H</p>
12	Students Project / KSCST / VGST Committee	<p>The Committee has to monitor the project work carried out by the students of the Institution. Inter-department projects should also be encouraged. Preparing proposals for external funding.</p>	<p>Dr. B.Sudarshan, ECE, Co-ordinator</p> <p>Dr. L.Nirmala, MED</p> <p>Dr. Dinesh Kumar.D.S, ECE</p> <p>Dr. Dayananda.R.B, CSE</p> <p>Mr. Kumar.K, CSE</p> <p>Dr. Kiran Kumar.S.R, BS & H</p>
13	Library & Stock Verification Committee	<p>Procurement of Books, maintenance of Journals, Magazines, Newsletter Issue & library related issues. Verification of stock in various departments after the practical examination. – once in an year within one weeks' time and submit the report to the Principal</p>	<p>Dr. V.Bharathi, Library, Co-Ordinator</p> <p>Dr. Girish.T.R, MED</p> <p>Mr. Harish.U, MED</p> <p>Ms. Tejaswini.M.L, MED</p> <p>Ms. Vishalini Divakar, ECE</p> <p>Ms. Aruna Rao.B.P, ECE</p> <p>Ms. Bhargavi Ananth, ECE</p> <p>Dr. Vijayalaxmi Mekali, CSE</p> <p>Ms. Raghavendrachar.S, CSE</p> <p>Dr. Kiran Kumar.S.R, BS & H</p> <p>Ms. Neelam Patil Radhika, BS & H</p>
14	Internet / e-Wastage, Chemical Wastage Committee	<p>Effective usage of Firewall-related activities. Monitoring UPS Storage, Internet, Wi – Fi, CCTV and Biometric maintenance.</p>	<p>Mr. K.Rajesh, CSE, Co-ordinator</p> <p>Mr. M.Nagabhushana, MED</p> <p>Ms. Pragati.P, ECE</p> <p>Ms. Geetha.R, CSE</p> <p>Ms. Neelam Patil Radhika, BS & H</p> <p>Mr. Kiran Kumar.G, Library</p> <p>Mr. Hemanth Kumar.D, TPO</p>
15	Website Committee	<p>Updating the Students academic details Institutions data in the website, which includes students / attendance & IA Marks etc., Dept. Programs conducted, organizing & planned need to forward to www.ksit.ac.in to upload in the College Website.</p>	<p>Dr. K.Venkata Rao, CSE, Co-Ordinator</p> <p>Mr. M.Nagabhushana, MED</p> <p>Dr. B.Devika, ECE</p> <p>Ms. Pragati.P, ECE</p> <p>Ms. Sougandhika Narayan, CSE</p> <p>Mr. Prashanth.H.S, CSE</p> <p>Ms. Anu Mathews, AI & ML</p> <p>Ms. Lakshmi.C, BS & H</p> <p>Ms. Vasudha.N.M, Office</p> <p>Mr. P.Rajesh, Exam Section</p> <p>Mr. G.Kiran Kumar, Library</p> <p>Mr. Hemanth Kumar.D, TPO</p>
16	Digital, Social Media, Publicity & Information Committee	<p>Any publicity issues to be handled by the committee. Newspapers preparation of college brochures / CDs information to the publishers etc.</p>	<p>Mr. Kumar.K, CSE, Co-ordinator</p> <p>Mr. Anil Kumar.A, MED</p> <p>Ms. Tejaswini.M.L, MED</p> <p>Dr. Sangappa, ECE</p> <p>Mr. Dileep.J, ECE</p> <p>Ms. Pooja.S, ECE</p> <p>Mr. Krishna Gudi, CSE</p> <p>Mr. Prashanth.H.S, CSE</p> <p>Ms. Anuradha.M.V, BS & H</p> <p>Dr. V.Bharathi, Library</p>
17	Newsletter & Magazine Committee	<p>It is the duty of committee to bring out 2 newsletters and one Souvenir in a year. Consisting students / staff participation in workshop / seminar / paper presentation which includes sports / games. Magazines / Souvenir will be the collection of Annual Events of the College</p>	<p>Ms. Anuradha.M.V, BS & H, Co-ordinator</p> <p>Dr. L.Nirmala, MED</p> <p>Mr. N.Ranganath, MED</p> <p>Dr. Rekha.N, ECE</p> <p>Ms. Sangeetha.V, ECE</p> <p>Dr. Vijayalaxmi Mekali, CSE</p> <p>Ms. Pallavi.K.N, CSE</p> <p>Ms. M.Vasanth, Library</p> <p>Mr. Hemanth Kumar.D, TPO</p>

18	Hostel, Canteen and Transport Committee	Welfare of hosteliars with regard to Food, accommodation and all other related issues. Meeting has to be convened to get grievances/ complaints from students with regard to taste, change of menu, timings of the mess/canteen. Monthly report need to be submitted with meeting minutes and action initiated. Bus maintenance, timings, RTO, Insurance, transport timings at the time of examination and transport related issues. Routes plan	Dr. Sangappa, ECE, Co-Ordinator Mr. B.Ramana Reddy, Transport Mr. Manjunath.B.R, MED Mr. Parashuram.A.K, MED Mr. Sampath Kumar.S, ECE Mr. Praveen.A, ECE Mr. Harshavardhan.J.R, CSE Ms. Pallavi.K.N, CSE Mr. Venkataramana.B.S, BS & H Mr. A.Balakrishna Naidu, Hostel Supervisor, 2 Students Rep. – Boys & Girls – Hostel
19	NSS Committee Red Cross & Rotary Committee ✓	Plantings of saplings, conduction of one day & special programmes, road laying, community attachment, blood donation etc..... Orientation of Youth Red Cross, Observing World Red Cross, World Blood Donors, World AID's, World Health and National Youth Day. Organizing Photo – Poster Exhibitions, Question – Answer Sessions on health issues, Blood Camps, Health Surveys, Community out-reach programmes. Plantings of saplings, conduction of one day & special programmes, road laying, community attachment, blood donation etc.....	Mr. V.Naveen, BS & H, Co-ordinator Mr. Manjunatha.B.R, MED Mr. Saleem.S.Tevaramani, ECE Mr. Harshavardhan.J.R, CSE Mr. Manoj Kumar.S, CSE Ms. Shylaja.K.R, BS & H Mr. Umesh.S, PED Students Representative
20	Industrial Interaction, Incubation, NISP ✓	Arranging Industrial Visit for all the departments, registration fees, writing letters for permission from the Company, arranging transportation & other facilities.	Mr. Rajesh.G.L, MED, Co-ordinator Mr. Manjunatha.B.R, MED Mr. B.R.Santhosh Kumar, ECE Mr. Satish Kumar.B, ECE Mr. Harshavardhan.J.R, CSE Ms. Swapna Gopala Jois, CSE Dr. Kiran Kumar.S.R, BS & H
21	EDC / IIP / IPR Committee	Formation of EDC/IEDC, organizing training programme, proposals for external funding. Formation of IIP cell, organizing awareness programs for staff and students on IPR, proposals for external funding.	EDC – Mr. Krishna Gudi, CSE, Co-ordinator IIP/IPR – Mr. Rajesh.G.L, MED, Co-ordinator <u>Members:</u> Mr. M.Nagabhushana,, MED Dr. B.Sudarshan, ECE Ms. Jayasudha.B.S.K, ECE Mr. Kushal Kumar.B.N, CSE Mr. Kumar.K, CSE Dr. Renuka.C, BS & H
22	Purchase Committee	Requirements of materials for the entire College should be done solely by the Committee, getting requirements for the department, calling for quotations from the dealer, making comparative study, getting approval from Co-ordinator, after purchase, planning & installation of equipment, finally recommendations for payment.	Dr. Dilip Kumar.K, Principal, Co-ordinator Dr. M.Umashankar, MED Dr. P.N.Sudha, ECE Dr. Rekha.B.Venkatapur, CSE Dr. Ram Prakash Rustagi, AIML Dr. P.Jalaja, BS & H Dr. V.Bharathi, Library Dr. Harish, TPO
23	Appointment Committee	Committee has to verify the application which was recommended by HOD's and call for personal interview, assessing their personality, capacity and the recommendation has to be done for appointment or rejection.	Dr. Dilip Kumar.K, Principal, Co-ordinator Dr. M.Umashankar, MED Dr. P.N.Sudha, ECE Dr. Rekha.B.Venkatapur, CSE Dr. Ram Prakash Rustagi, AIML Dr. P.Jalaja, BS & H Dr. V.Bharathi, Library Dr. Harish, TPO Experts from other Institutions
24	NAAC / NBA / NIRF Committee	Preparation of documents as per NBA, Vision, Mission of the College / departments, Pos, PEOs, Mapping of Cos with Pos, Result Analysis, Students, Parents, Alumni and Stakeholders reports / feedback. Uploading of the	Dr. P.N.Sudha, ECE, Co-ordinator Dr. M.Umashankar, MED Dr. Nagaprasad.K.S, MED Dr. Chanda.V.Reddy, ECE

		department activities in web including related articles and proposals. Co-ordination with Pupilpod for preparation of NBA documents / files.	Dr. B.Sudarshan, ECE Dr. Rekha.B.Venkatapur, CSE Dr. K.Venkata Rao, CSE Dr. Vaneeta.M, CSE Dr. Ram Prakash Rustagi, AML Dr. P.Jalaja, BS & H Mr. Sunil Kumar.N, BS & H Dr. V.Bharathi, Library
25	IQAC Committee ✓	Quality assurance towards Academic by required guidelines. Guidelines towards Accreditation Committees.	Dr. Chanda.V.Reddy, ECE, Co-ordinator Dr. Saleem Khan, MED Mr. Praveen.A, ECE Ms. Geetha.R, CSE Mr. Sunil Kumar.N, BS & H
26	Covid Task Force Committee ✓	Implementation of SOPs by VTU, Government of Karnataka. Submission of timely information and reports to VTU. Organizing covid tests and vaccination drives as and when required.	Dr. B.Surekha, ECE, Co-ordinator Dr. Girish.T.R, MED Dr. Nagaprasad.K.S, MED Dr. Rekha.N, ECE Dr. Dinesh Kumar.D.S, ECE Dr. K.Venkata Rao, CSE Dr. Deepa.S.R, CSE Mr. Venkataramana.B.S, BS & H Dr. V.Bharathi, Library Mr. Umesh.S, PED
27	Branding Committee		Mr. Sunil Kumar, BS & H, Co-ordinator Dr. M.Umashankar, MED Mr. M.Nagabhushana, MED Mr. Dileep.J, ECE Dr. K.Venkata Rao, CSE Mr. K.Kumar, CSE Mr. Venkataramana.B.S, BS & H Ms. Lakshmi.C, BS & H Dr. Renuka.C, BS & H Ms. Anuradha.M.V, BS & H Dr. Harish, TPO
28	NEP	Implementation of NEP	Dr. Renuka.C, BS & H, Co-ordinator
29	UHV		Ms. Anuradha.M.V, BS & H, Co-ordinator
30	ATAL		Dr. Rekha.B.Venkatapur, CSE, Co-ordinator
31	Graduation Committee	Organize Graduation Day	All HODs with Cultural Committee


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 : Office/Library/Placement/Sports/Transport/Hostel



K S INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

REPORT ON NATIONAL CONFERENCE ON “RECENT INNOVATIONS IN ENGINEERING-2022”

The Department of Computer Science and Engineering in association with VTU, CSI, BITES and ISTE Organized National Conference on “Recent Innovations in Engineering-2022” on 23rd and 24th June 2022.

Conference began with an inauguration function on 23rd June 2022 in Conference hall. Principal Dr. Dilip Kumar K welcomed the chief guest Dr. K N Balasubramanyam Murthy, Chairman BITES, Sri R. Rajagopal Naidu, President, Kammavari Sangham, Sri R. Leela Shankar Rao, Hon. Secretary, Kammavari Sangham, Sri. T. Neerajakshulu Naidu, Treasurer, Kammavari Sangham, Faculty members and student participants. Conference received 57 papers from seven different colleges all over Karnataka.



Registration was done on Day 1 from 8.30am to 9.30am for three sessions and Day 2 8.30am to 9.00 am for four sessions.



1. Registration Desk

Day 1: 23-06-2022 Session 1: Track on Data Science Started at 11.15am. The session chair was Dr. Shaila S G, Professor & Chair Person Data Science Program, CSE, DayanadaSagar University. Eight papers were presented in this track. The best paper award was given to paper entitled "AI BASED DIETICIAN" from DayanandaSagar Academy of Technology and Management, Bengaluru.



2. Welcoming Data Science Session Chair 3. Winner of Data Science Session 1

Day 1: 23-06-2022 Session 2: Track on Internet of Things Started at 11.15am. The session chair was Dr. Anitha J, Professor & HOD, CSE, RVITM, Bangalore. Nine papers were presented. The best paper award was given to paper entitled "PROTECTION OF FOREST TREES AGAINST POACHING BASED ON IOT" from K S Institute of Technology.



4. Welcoming IoT Session Chair 5. Winner of IoT Session 2

Day 1: 23-06-2022 Session 3: Track on Data Science Started at 2.00 pm. The session chair was Dr. Shaila S G, Professor & Chair Person Data Science Program, CSE, DayanadaSagar University. Seven papers were presented in this track. The best paper award was given to paper entitled "BIRD SPECIES IDENTIFICATION" from K S Institute of Technology, Bengaluru.



6. Winner of Data Science Session 3

Day 2: 24-06-2022 Session 1: Track on Software Engineering Started at 9.00 am. The session chair was Dr.Kumar B I D, Professor & HOD, APSCE, Bangalore. Seven papers were presented in this track. The best paper award was given to paper entitled “CHROME EXTENSIONFOR DROPDOWN CODE EDITOR” from K S Institute of Technology, Bengaluru.



7. Welcoming Software Engineering Session Chair

Day 2:24-06-2022 Session 2: Track on Cyber Security and Blockchain started at 9.00 am. The session chair was Dr. Hemavathy R, Associate Professor, CSE, RVCE, Bangalore. Eight papers were presented in this track. The best paper award was given to paper entitled “MORSE CODE SECURITY” from K S Institute of Technology, Bengaluru.



8. Winner of Cyber Security and Blockchain

Day 2:24-06-2022 Session 3: Track on Image processing & Computer Vision and Cyber Security and Blockchain started at 11.15am. The session chair was Dr. Sneha Girish, Freelancer, Mentor at Great Learning. Eight papers were presented in this track. The best paper award was given to paper entitled "HUMAN DERMIS CANCER DETECTION" from K S Institute of Technology, Bengaluru.



9. Image Processing and Computer Vision Session Chair and Winner Team

Day 2:24-06-2022 Session 4: Track on Networking and Data Science started at 11.15am. The session chair was Dr. C Nandini, Vice Principal, Professor & Head, CSE, DSATM, Bangalore. Nine papers were presented in this track. The best paper award was given to paper entitled "CLASSIFICATION AND DETECTION OF DIABETIC RETINOPATHY USING DEEP LEARNING WITH EYE FUNDUS IMAGE" from G.S.K.S.J.I.T.



10. Welcoming Networking session chair and Winner Team

Conference Chief Coordinator

Dr. Deepa S R *deepa*

Dr. Vaneeta M

Dr. Vaneeta M
Conference Convener & HOD

Dr. Vaneeta M
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K.S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura main road, Bengaluru-560109

REPORT ON NATIONAL CONFERENCE ON RECENT INNOVATIONS IN ENGINEERING-2022 (NCRIE)

ORGANISED BY
DEPARTMENT OF ELECTRONICS & COMMUNICATION
ENGINEERING

The NCRIE was organised by the Dept. of **Electronics and Communication Engineering, KSIT, Bengaluru** on **23rd-24th June 2022**. The convention program was inaugurated by Chief Guest, We also had **Sri.Y. Ramachandra Naidu, President-KSIT**, **Sri.K.Venkatesh Naidu, Hon.secretary-KSIT**, **Sri.D.Rukmangada Hon.treasurer-KSIT**, **Dr. KVA Balaji CEO- KSIT**, **Dr.Sangappa Prof & Dean,KSIT**, **National Executive Council Member, ISTE** and **Dr K Dilip Kumar Principal/Director KSIT** who graced the occasion.



Inaugural Function



HODs of all departments



NCRIE Book Release

There were totally **90** papers submitted out of which **78** papers were accepted for the presentation.

There were **8 sessions** in total, **4 sessions per day**. Two sessions were running at a time with **10 groups** in each session.

Session Chairs from various colleges were present to evaluate the papers presented.

At the end of each session, one paper was awarded with the best paper award. All the participants who presented were given certificates.

DAY 1: 23rd – JUNE- 2022

TIME: 9.30 am – 12.30 pm

SESSION 1:

GROUPS PRESENTED: 10

EXTERNAL CHAIR: Dr ABHAYA DESHPANDE

INTERNAL CHAIR: Dr REKHA N

BEST PROJECT: INTELLIGENT PACKAGING SYSTEM.



Session 1

SESSION 1P:

GROUPS PRESENTED: 10

EXTERNAL CHAIR: Dr SIDDHESH G K

INTERNAL CHAIR: Dr SUREKHA B

BEST PROJECT: REAL TIME TRAFFIC MONITORING.



Session 1P

TIME: 1.30 pm – 3.30 pm

SESSION 2:

GROUPS PRESENTED: 10

EXTERNAL CHAIR: Dr REKHA

INTERNAL CHAIR: Mr SANTOSH KUMAR B R

BEST PROJECT: HOME AUTOMATION AND CONTROL USING COMPUTER VISION.



Session 2

SESSION 2P:

GROUPS PRESENTED: 10

EXTERNAL CHAIR: Dr MANJUNATH PRASAD

INTERNAL CHAIR: Dr CHANDA V REDDY

BEST PROJECT: IOT BASED SMART MIRROR.



Session 2P

DAY 2: 24th – JUNE- 2022

TIME: 9.30 am – 12.30 pm

SESSION 1:

GROUPS PRESENTED: 10

EXTERNAL CHAIR: Dr SUPRIYA V G

INTERNAL CHAIR: Dr DINESH KUMAR

BEST PROJECT: EFFECTIVENESS OF MARKOV CHAIN BASED LYRICS IN MUSIC.



Session 1

SESSION 1P:

GROUPS PRESENTED: 10

EXTERNAL CHAIR: Dr K CHANDRA SHEKAR

INTERNAL CHAIR: Mrs JAYASUDHA B S K

BEST PROJECT: SIGN LANGUAGE TRANSLATOR.



Session 1P

TIME: 1.30 pm – 3.30 pm

SESSION 2:

GROUPS PRESENTED: 11

EXTERNAL CHAIR: Dr FATHIMA JABEEN

INTERNAL CHAIR: Dr DEVIKA G

BEST PROJECT: REAL TIME FRUIT DETECTION AND CLASSIFICATION USING IMAGE PROCESSING AND CONVOLUTION NEURAL NETWORKS.



Session 2

SESSION 2P:

GROUPS PRESENTED: 11

EXTERNAL CHAIR: Dr UMA

INTERNAL CHAIR: Mrs VISHALINI DIWAKAR

BEST PROJECT: SMART ANTI PIRACY SYSTEM.



Session 2P

POs Mapping with rank

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
2	2	2	2	1				2	1	1	1

Chief Coordinator

HEAD OF THE DEPARTMENT
Dept. of Electronics & Communication Engg
K.S. Institute of Technology
Bengaluru - 560 109

Principal

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Report on

NCRIE -2022

**National Conference on Recent
Innovations in Engineering- 2022**

23rd – 24th June 2022

Bengaluru, Karnataka, India



Organized by

DEPARTMENT OF MECHANICAL ENGINEERING

in association with



National Conference on Recent Innovations in Engineering- 2022 **23rd - 24th June 2022 Bengaluru,** **Karnataka, India**

Two days National Conference on Recent Innovations in Engineering- 2022 was organized in the department of Mechanical Engineering with Conference Chair Dr. Dilip Kumar K. Principal & Director, Convener Dr. M. Umashankar Prof. & Head. This Conference offered a platform for researchers, industry professionals & students to present & discuss innovative research ideas, results, applications and long-term solutions in various fields of Mechanical Engineering like

- Advanced Materials & Techniques
- Artificial Intelligence in Casting Shape memory alloys
- Nano Technology for Sustainability
- Material Characterization
- Rapid Prototyping,
- Lean / Green Manufacturing
- Hybrid Vehicles and its Integration Renewable Energy Technology Global Warming & Green Energy Options Combustion Dynamics HCCI / PCCI , Heterogeneous Combustion.

<p>Chairman Dr. M. Umashankar Professor, Department of Mechanical Engineering M. S. R. Institute of Technology Bengaluru, Karnataka 560075</p> <p>Convener Dr. Dilip Kumar K. Principal & Director Department of Mechanical Engineering M. S. R. Institute of Technology Bengaluru, Karnataka 560075</p> <p>Secretary Dr. M. Umashankar Professor, Department of Mechanical Engineering M. S. R. Institute of Technology Bengaluru, Karnataka 560075</p> <p>Organizing Committee Dr. M. Umashankar Professor, Department of Mechanical Engineering M. S. R. Institute of Technology Bengaluru, Karnataka 560075</p>	<p>Advisory and Technical Committee Dr. Dilip Kumar K. Principal & Director Department of Mechanical Engineering M. S. R. Institute of Technology Bengaluru, Karnataka 560075</p> <p>Dr. M. Umashankar Professor, Department of Mechanical Engineering M. S. R. Institute of Technology Bengaluru, Karnataka 560075</p> <p>Dr. M. Umashankar Professor, Department of Mechanical Engineering M. S. R. Institute of Technology Bengaluru, Karnataka 560075</p>	<p align="center">National Conference on Recent Innovations in Engineering- 2022 23rd - 24th June 2022</p>  <p align="center">NCRIE-2022 (Organized by DEPARTMENT OF MECHANICAL ENGINEERING M. S. R. INSTITUTE OF TECHNOLOGY)</p>	<p>Objectives The National Conference on Recent Innovations in Engineering- 2022 is organized to provide a platform for researchers, industry professionals and students to present and discuss innovative research ideas, results, applications and long-term solutions in various fields of Mechanical Engineering like Advanced Materials & Techniques, Artificial Intelligence in Casting Shape memory alloys, Nano Technology for Sustainability, Material Characterization, Rapid Prototyping, Lean / Green Manufacturing, Hybrid Vehicles and its Integration Renewable Energy Technology Global Warming & Green Energy Options Combustion Dynamics HCCI / PCCI , Heterogeneous Combustion.</p> <p>Topics for Presentation Advanced Materials & Techniques Artificial Intelligence in Casting Shape memory alloys Nano Technology for Sustainability Material Characterization Rapid Prototyping Lean / Green Manufacturing Hybrid Vehicles and its Integration Renewable Energy Technology Global Warming & Green Energy Options Combustion Dynamics HCCI / PCCI , Heterogeneous Combustion.</p>	<p>Registration Form - NCRIE-2022</p> <p>Name: _____</p> <p>Registration No: _____</p> <p>Address: _____</p> <p>Phone: _____</p> <p>Email: _____</p> <p>Signature: _____</p> <p>Date: _____</p>
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The following were the advisory and technical and Review committee members-

Technical Committee Members-	
Dr. Gopalakrishna K Principal, Jyothy Institute of Technology, Bangalore.	Dr. Rama Narasimha K Principal, KSSEM, Bangalore
Dr. Chennaksheshaalu K Principal, East West Institute of Technology, Bangalore	Dr. Vijaya Simha Reddy B. G Principal, Vemana Institute of Technology, Bangalore
Dr. Seenappa Principal, Government Engineering College, Kushalnagar	Dr. Thirumaleshwara Bhat Principal, Shri MVIT&M, Bantakal, Udupi.
Dr. Vasu M Associate Professor, NIT, Thiruchy, TN	Mr. Seshnath B CEO & MD, Walvoil Fluid Power India Pvt Ltd, Bangalore
Dr. RamaMohan Y. S Professor & Head, Aerospace Engg. BMSCE, Bangalore	Dr. Annamali K Professor, VIT, Chennai
Dr. Abdul Sharief Professor & Dean, Presidency University	Dr. Chikkanna N Professor, VTU Center for PG Studies, Muddenahalli
Dr. Balaji B Professor & Head, MED, KSSEM, Bangalore	Dr. Mahamani A Dean, R&D, Vemu Institute of Technology, AP.
Dr. Vijay G S Professor, Manipal Institute of Technology	Dr. Swamy D R Professor, JSSATE, Bangalore.
Dr. Ravikumar D. V Associate Professor, MED, GATE, Bangalore	Dr. Pradeep, Badigere Associate Professor, MED, NMIT, Bangalore.
Dr. Mahadev Nagaral Deputy Manager(Design)HAL, Bangalore	
Review Committee	
Dr. Rama Narasimha K Principal, K. S. School of Engineering & Management, Bangalore	Dr. Mahamani A Dean, R&D, Vemu Institute of Technology, AP
Dr. Seenappa Principal, Government Engineering College, Kushalnagar	

The following are the papers presented in conference with ISBN:978-81-929425-2-0

Sl. No	Paper Id	Tittle
1	ME - 01	TENSILE TESTING OF E-GLASS FIBER/ PLA MATRIX DEVELOPED BY USING 3-D PRINTING TECHNIQUE
2	ME-02	PRODUCTION AND OPTIMIZATION FOR PERFORMANCE PARAMETERS OF A DIESEL ENGINE RUNNING ON SIMAROUBA BIODIESEL BLENDED WITH SIMAROUBA OIL
3	ME-03	FABRICATION OF REMOTE-CONTROL MOTORIZEDSCREW JACK
4	ME-04	DESIGN AND ANALYSIS OF DISHED ENDS
5	ME-05	ENVIRONMENTAL IMPACTS AND EMISSIONGUIDELINES ON HYBRID VEHICLES
6	ME-06	IMPLEMENTATION AND EFFECTIVENESS OF SOLAR-WIND HYBRID CHARGING STATION FOR ELECTRIC VEHICLES
7	ME-07	OVERVIEW OF SOLAR POWER SYSTEMS
8	ME-08	FIBER REINFORCED COMPOSITES- A REVIEW
9	ME-09	FABRICATION OF SONAR GLASSES FOR VISUALLYIMPAIRED
10	ME-10	DESIGN AND FABRICATION OF FINGER MILLET CUTTING MACHINE- A REVIEW
11	ME-11	SOLAR POWERED AQUAPONICS SYSTEM
12	ME-12	POWER ASSISTED POULTRY GARBAGE CHIPPINGMACHINE
13	ME-13	DESIGN AND FABRICATION OF A SEMI-AUTOMATICPNEUMATIC INJECTION MOLDING MACHINE
14	ME-14	EXPERIMENTAL & NUMERICAL INVESTIGATION ON VIBRO-ACOUSTIC BEHAVIOUR OF THIN CYLINDRICAL SHELL
15	ME-15	EFFECT OF COMBINATION OF ETHANOL INJECTION AND AFTER TREATMENT DEVICES ON DIESEL ENGINEEMISSION- A REVIEW
16	ME-16	EXPERIMENTAL STUDIES ON OSCILLATING HEAT PIPEUSING NANO FLUIDS
17	ME-17	DESIGN AND FABRICATION OF GYM EQUIPMENT FORPOWER GENERATION
18	ME-18	DESIGN AND FABRICATION OF MIST IRRIGATION SYSTEM
19	ME-19	EFFECT OF COMBINATION OF METHANOL INJECTION AND AFTER TREATMENT DEVICES ON DIESEL ENGINE EMISSION- A REVIEW

20	ME-20	DESIGN AND DEVELOPMENT OF DUAL LUG NUT FORTIGHTENING AND LOOSENING OF FOUR WHEELER TYRES
21	ME-21	LOW COST MECHANICAL FLOOR CLEANING MACHINE-A REVIEW
22	ME-22	DESIGN AND FABRICATION OF LOW COST MECHANICAL VENTILATOR
23	ME-23	DESIGN AND FABRICATION OF SEMI-AUTOMATED MACHINE VICE
24	ME-24	DESIGN AND FABRICATION OF SOIL MOISTURE SENSING ROBOT
25	ME-25	REVIEW ON THE DEVELOPMENT OF ALUMINIUM ALLOY (6061) REINFORCED WITH ZrO ₂
26	ME-26	DESIGN AND FABRICATION OF AIR BRAKE SYSTEM USING IC ENGINE EXHAUST GAS

Total 26 Papers were presented in four sessions, session chairs were invited from other organizations.

Session	Session chair
1	Dr. Rama Narasimha K Principal, K SSEM, Bangalore
2	Dr. Balaji B Professor & Head, MED, KSSEM, Bangalore
3	Dr. Vijaya Simha Reddy Principal, Vemana Institute of Technology, Bangalore
4	Dr. Ravikumar D. V Associate Professor, MED, GATE, Bangalore

The following are the best papers Awarded

Session	Best Paper
Session1:	<p>DESIGN AND ANALYSIS OF DISHED ENDS</p> <p>Mohammed Saif Ulla Ameen¹, Rahul B.N², Rahul P³, Syed Ali Faizan Khodr⁴, Nagabhushana M⁵</p> <p>^{1,2,3,4} UG-students ⁵Associate Professor Department of Mechanical Engineering K.S. Institute of Technology Bangalore -560109</p> <p>ABSTRACT</p> <p>Dished ends are an important element for pressure vessels and boilers. They cover both ends of the pressure vessel and have wide applications. They are used in nuclear power plants, thermal power plants, and refineries. Usually, the design of dished ends is according to codes like ASME, Indian Standard, etc. The dish is supported by a weld. Internal pressure load, self-weight, the volume of fluid used in the vessel, and seismic load, these loading factors should be taken into consideration while designing. The joint should be considered while designing so that it can withstand various loads. The design for thickness is carried out with reference to Indian Standard IS 499. In this paper, the pressure vessel with different end dishes is subjected to internal pressure. The dish ends have been designed for an operating pressure of 2 MPa which will be useful for storage applications. Calculations are made to find the thickness of the dish end for the operating pressure. Non-linear axisymmetric Finite Element Analysis considering both geometric and material non-linearity has been performed on SOLIDWORKS software to estimate the stress in the dish of the pressure vessel.</p> <p>Keywords: Dished ends, Finite element analysis, Formed head, Crown radius, Knuckle radius, Straight face, Factor of safety, Displacement model, Von-mises stress, Maximum allowable stress, and design pressure.</p>

Session2:	Design and Fabrication of Low Cost Mechanical Ventilator	<p><i>National Conference on Recent Innovations in Engineering-2022</i> ISBN-978-81-929423-2-0</p> <p>DESIGN AND FABRICATION OF LOW COST MECHANICAL VENTILATOR</p> <p>Anirudh R¹, Harsha P¹, Mallikarjun Holde¹, Mohan R Krishna¹, Nirmala L²</p> <p>¹ Students, ² Associate Professor Department of Mechanical Engineering K.S. Institute of Technology Bangalore -560109</p> <p>ABSTRACT This paper shows the construction of low cost mechanical ventilator, which is a device used for patients with acute breathing problems. The main motivation for this project is to bridge the demand for ventilator during covid19 and to reduce the cost of ventilation. This is very effective and matches with the clinical ventilators. Simple mechanism (slider and crank) is selected wisely to get effective ventilation at min cost. Experiments carried out in the laboratory that had emulated healthy and unhealthy patients illustrate the potential benefits of the derived mechanical ventilator.</p> <p>Keywords: Mechanical ventilator, low-cost ventilator, Covid-19, Slider crank.</p>
Session3:	Design and Fabrication of Semi-Automated Machine Vice	<p><i>National Conference on Recent Innovations in Engineering-2022</i> ISBN-978-81-929423-2-0</p> <p>DESIGN AND FABRICATION OF SEMI-AUTOMATED MACHINE VICE</p> <p>Dhanush B M¹, Chethan Kumar R¹, Dhanaraj H D¹, Anil Kumar A²</p> <p>¹ Students, ² Assistant Professor Department of Mechanical Engineering K.S. Institute of Technology Bangalore -560109</p> <p>ABSTRACT The present paper represents the design and development of semi-automated machine vice. In this the work piece will be held and released automatically for the machining process with the help of pneumatic cylinder. When the workpiece is present between the jaw the IR sensors senses the workpiece and signal is fed to the circuit board, in the circuit board Arduino is present which controls the operating process, the pneumatic cylinder piston will move forward the moving jaw front and hold the workpiece rigidly. It reduces the human power, the jaw will move fast and hold the work piece, the drilling operation is carried out after the operation is carried out the jaw will return back to its position. Also increases the accuracy and the time utilization is reduced.</p> <p>Keywords: Semi-Automated Machine Vice, Pneumatics, Arduino, IR Sensor, Solenoid Valve.</p>
Session4 :	Effect of Combination of Methanol Injection and After Treatment Devices On Diesel Engine	<p><i>National Conference on Recent Innovations in Engineering-2022</i> ISBN-978-81-929423-2-0</p> <p>EFFECT OF COMBINATION OF METHANOL INJECTION AND AFTER TREATMENT DEVICES ON DIESEL ENGINE EMISSION- A REVIEW</p> <p>Santhosh M¹, Omkar M V¹, Sai karthik¹, Bhaskar R¹, Nagaprasad K S²</p> <p>¹ Students, ² Associate Prof Department of Mechanical Engineering K.S. Institute of Technology Bangalore -560109</p> <p>ABSTRACT In Diesel/methanol compound combustion system (DMCC) the effect of methanol injection timings on combustion, performance and emissions were comprehensively investigated. The experimental results demonstrated that methanol injection timings plays important roles in combustion and emission control. Nox and soot emission were all decreased while HC and CO emission increased significantly. HC emission firstly increased and then decreased, while CO emission always increased.</p>



Session 1: Dr. Rama Narasimha K
Principal, KSSEM, Bangalore.



Session 2: Dr. Balaji B
Professor & Head, MED, KSSEM, Bangalore



Session 3: Dr. Vijaya Simha Reddy B. G
Principal, Vemana Institute of Technology, Bangalore



Session 4: Dr. Ravikumar D. V
Associate Professor, MED, GATE, Bangalore

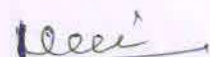
Conference Outcome:

Students were able to improve communication skills and presentation skills through this conference

conference	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
National Conference on Recent Innovations in Engineering- 2022	-	-	-	-	-	-	-	2	2	3		3

Outcomes of the Conference

- Students got to know importance of journal papers.
- Students were able to improve communication skills and latest technologies in various fields
- Students were able to improve scientific article writing skills.



Signature of the Coordinator



Signature of the HOD
Head of the Department
Dept. of Mechanical Engg.
K.S. Institute of Technology
Bengaluru - 560 109.



Signature of the Principal
PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109.



K. S. INSTITUTE OF TECHNOLOGY

Kanakapura Road, NH-209, Bangalore-560109

Three Days Faculty Development Programme on "OUTCOME BASED EDUCATION" organized in association with IEEE KSIT SB, IEI, IETE and CSI from 17th to 19th March 2022 and the program begins with inauguration function on Thursday, 17th March 2022 at 9.00am in Conference Hall, KSIT .The Program inaugurated by Chief Guest Dr. S. Bhaskar Head-Office of PG Studies Kumaraguru College of Technology, Coimbatore and graced by Sri.R.Rajagopal Naidu, President, Kammavari Sangham, Sri. R. Leela Shankar Rao, Hon. Secretary, Kammavari Sangham, Sri.T. Neerajakshulu Naidu, Treasurer, Kammavari Sangham .The function was presided by Dr. K.V.A Balaji CEO, KSIGI, Dr. Dilip Kumar K, Principal / Director ,KSIT, Dr. P. N. Sudha, Prof & HOD-ECE, Chief Coordinator .There were 90 Participants from KSIT as well as KSSEM .



After the prayer song Dr. Dilip Kumar K, Principal / Director , KSIT gave welcome speech and welcomed all the dignitaries and HOD's of various department.



Dr. P. N. Sudha, Prof & HOD-ECE, Chief Coordinator of the FDP briefed about 3 days FDP Programme.



Sri.R.Rajagopal Naidu, President, Kammavari Sangham spoke about the importance of FDP and appreciated the Chief Guest about his Gratitude towards his Guru . This was followed by a motivational talk by Sri. R. Leela Shankar Rao, Hon. Secretary, Kammavari Sangham and Sri.T. Neerajakshulu Naidu, Treasurer, Kammavari Sangham.



Dr.UmaShankar, Prof & Head of Mechanical Engineering, gave Vote of thanks and Inaugural function ended with group Photo session.



After the inaugural function the Day 1 session 1 started at 10.15 am about Basic Terminologies of OBE and Accreditation with emphasis on Outcomes Vs Objectives, types of outcomes, program, course, and principles of OBE and all the participants gained detailed knowledge on those topics.



In Session 2 of Day 1 ,Dr. S. Bhaskar made the participants to involve in understanding the Revised Bloom's Taxonomy (RBT) for Knowledge, Dave's Taxonomy for Skills, and Krathwohl and Bloom's Taxonomy for Attitude. It was very informative.

After post Lunch Session 3 started at 1.30 pm with PEOs in OBE perspective and understanding the Program Outcomes (POs) linking them with the taxonomies for KSA. Sir gave detailed explanation with examples was very useful and made the participants to understand easily.



Date: 18th March 2022

Resource Person: Dr. S. Bhaskar, Head- Dept. of PG Studies, Kumaraguru College of Technology, Coimbatore, TamilNadu

Day 2 sessions began at 9.00 am. The second day session was very informative

Session 1:

This session dealt with Professional way of evolving Course Outcomes of Theory Courses.

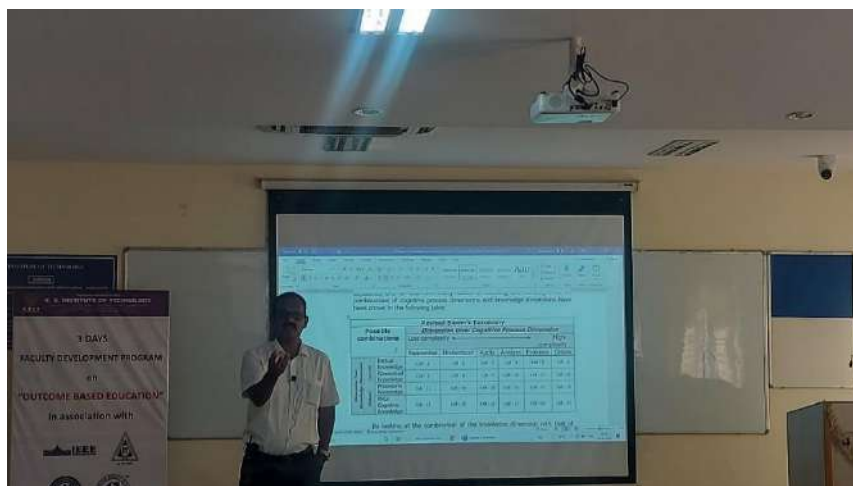
Course Outcomes can be evolved based on 5 criteria. Criteria 1 is on number of course outcomes to be written for a course (preferably 6). Criteria 2 is on common part of course outcome and with what words it must start. Criteria 3 is on the 2 aspects that a course outcome should cover. Criteria 4 is on what level of knowledge a course outcome should be written. Criteria 5 is on planning of the course outcomes and importance was given on writing the CO in such a way that each CO covers almost 70% - 80% of the syllabus.



Session 2:

This session dealt with Strategies to attain pre dominantly domain independent POs to ensure uniform mapping of COs and POs and also Procedure for CO-PO Mapping

The main challenge with CO PO mapping is how to address domain independent POs. Sir clearly explained on how to map these POs using assignments like written, presentation, quiz and mini projects and even on the ideal number of COs in a course. Sir stressed upon the point that each course must include atleast six Course Outcomes. The format and Rubrics for all these types of Assignments was also discussed. It was even mentioned that all the assignments must be given at the knowledge level K3 or above and the assignment topics must be from the course itself.



Session 3:

This session dealt with CO PO Mapping for Theory Courses

Here the key elements required in each PO was stressed upon to carry out CO-PO Mapping. A matrix of Number of key elements of a PO satisfied by the CO must be made from which CO-PO Mapping must be obtained. It was mentioned that the number of key elements for each PO can vary from 2 to 4 but PSOs must have maximum number of key elements. From this Course Articulation Matrix CO-PO contribution matrix can be obtained which is the ratio of the number of key elements of a PO satisfied by that CO to total number of key elements in that PO in percentage.

Based on these percentages a level can be assigned in the CO PO Mapping table. A general method was discussed according to which grade is assigned as 3 if CO contribution is greater than or equal to 75%, 2 if CO contribution is inbetween 75% and 50%, 1 if CO contribution is inbetween 50% and 25% and no correlation if CO contribution is less than 25%.

Sir even explained about the Procedure to Design the Course Syllabus which included Writing the Course Outcomes, Mentioning the topics to be covered to achieve CO and grouping the topics, giving it a title and including subtitles.



Day 2 of the FDP on Outcome Based Education was highly enlightening and informative.

Date: 19th March 2022

Resource Person: Dr. S. Bhaskar, Head- Dept. of PG Studies, Kumaraguru College of Technology, Coimbatore, TamilNadu

Session-1:

Third day training started at 9.00am sharp. Speaker enlighten our mind upon how to prepare question paper which meets OBE requirements and test answer book front page design to capture data on Cos attainment in tests and other assessments. Six knowledge based levels and its key action words had been summarized. He mentioned that there are two different types of questions. They are: Objective and Descriptive type questions.

Speaker also mentioned about 5 types of objective type questions. They are: multiple choice items, multiple selection item with multiple choice code, sequencing type item, matching type item with multiple choice code and assertion/ reason type item with multiple choice code. He informed purpose of descriptive questions. He informed about all six types of knowledge level question patterns. He also informed about key understandings when setting question papers like RBT level inclusion in IA papers and how to give question choices.

Session-2:

After Tea Break, session resumed at 11.30am sharp. Speaker illustrated about Test Answer-Book front page design to capture data on Cos attainment in tests and other assessments. He also informed that, equal weightage had to be given to all course outcomes. Speaker informed about key aspects such as course outcomes, knowledge level and length of the answer to be integrated in a question paper. Speaker also informed about professional way of evolving course outcomes for laboratory courses. He informed about RUBRICS for laboratory courses.

Sl. No.	Performance Criteria (marks)	Rating scale (based on level of performance) [Marks]	Marks awarded for the criterion
1	Correctness of the aim and procedure for the experiment / exercise (3)	3: Correct aim and procedure were followed in the proper sequence. Knows how to proceed with doing the experiment. 2: Aim and procedure were followed with some errors. Proceeded doing the experiment with guidance. 1 or 0: Procedure not followed properly. Not showing interest to do the experiment.	
2	Inferences drawn from experiment, presentation of results, concepts through verbal & written communication and attitude reflected in doing experiment		

Speaker also informed that rubrics is essential because it acts as a measurement or evaluation criteria for awarding a marks for students. He informed that in rubrics there should be 6 components because 6 course outcomes are there. The important key elements which can be included in laboratory rubrics are correction of aim & procedure for experiment/exercise, skill level in performing the experiment, inferences drawn from experiment, presentation of results, concepts through verbal & written communication and attitude reflected in doing experiment. CO-PO mapping table for lab courses had been discussed in the session. He also informed that PSO1 and PSO2 should be decided by the concern of module coordinator along with their team. After this we went for Lunch.

Session-3:

After lunch break, session started at sharp 1.30pm. speaker discussed about professional way of evolving course outcomes for Project Courses. He informed about 6 course outcomes to be written for project course. Six important course outcome elements and its marks division had been discussed by speaker. CO1 can be defined as keeping clarity in defining the problem which can be assessed for 15marks. CO2 can be defined as identification of parameters of concern which can be assessed for 15marks. CO3 can be defined as literature survey and interference drawn to identify the methods to solve problem which can be assessed for 15marks. CO4 can be defined as correctness of solution selected which can be assessed for 15marks. CO5 can be defined as quality of work done which can be assessed for 15marks. CO6 can be defined by taking key elements such as results and conclusion which can be assessed for 25marks. For total 100 marks draft copy was discussed. CO-PO mapping table for project courses had been discussed. After this topic session was closed by speaker.

Valedictory function was started around 2.40pm sharp. Dr. Dilip Kumar K, Principal, KSIT : Dr. KVA Balaji, CEO of KSGI: Dr. P. N. Sudha, NBA Co-ordinator, Professor and Head, Department of ECE were shared stage with the eminent speaker for the 3-Day FDP Dr. S. Bhaskar, Head- Dept. of PG Studies, Kumaraguru College of Technology, Coimbatore, TamilNadu. Many faculties of KSSEM and KSIT were also present in the function. Dr. Nagaprasad from department of Mechanical engineering department took the opportunity to anchor the valedictory function. Dr. Chanda V. Reddy, Professor from department of ECE illustrated the highlights of all sessions for 3 days.

Dr. Rekha B Venkatapur, Professor and Head, Department of CSE proposed vote of thanks. Many faculties from KSSEM and KSIT were involved in giving a valuable feedback about three days FDP program. Faculties felt that overall conduction of the FDP was good and the best person was selected as resourse person. Finally Dr. P. N. Sudha, NBA Co-ordinator, Professor and Head, Dept. of

ECE ended the session by thanking all the participants and wished everyone all the very best for incorporating best NBA Outcome based education practice.



FDP Outcome:

Faculties got opportunity to understand the meaning of Outcome Based Education and methods to be followed to achieve OBE

FDP Topic	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Outcome Based Education	-	-	-	-	-	2	-	2	2	3	-	3

Outcomes of the Event:

- Basic knowledge of RBT levels and the relationship between Vision and Mission of Department and their corresponding PEOs which indirectly assist the students to achieve in their life was clearly understood by the faculty.
- The CO-PO mapping of Theory courses and ways of addressing domain independent POs was understood by faculty along with effective Communication such as writing effective reports, working in teams and preparing a template with necessary information.
- The CO-PO mapping of Laboratory courses and Project, Ethical practices to be followed and contribution of an engineer to the society were understood by faculty.

Signature of Co-ordinator

Signature of Principal



K. S. INSTITUTE OF TECHNOLOGY

Kanakapura Road, NH-209, Bangalore-560109

Three Days Staff Development Programme on "CAPACITY BUILDING" organized in association with IEEE Bangalore section, IEI, IETE and CSI from 4th to 6th April 2022 and the program begins with inauguration function on Monday, 4th April 2022 at 9.30am in Seminar Hall, KSIT. The Program inaugurated by Chief Guest Dr.V.Raghu, Principal, Silicon City College of Management & Commerce, Bangalore and graced by Sri.R.Rajagopal Naidu, President, KammavariSangham, KammavariSangham, Sri.T. Neerajakshulu Naidu, Treasurer, KammavariSangham. The function was presided by Dr. K.V.A Balaji CEO, KSGI, Dr.Dilip Kumar K, Principal / Director, KSIT, Dr.M. UmashankarProf &HOD-ME, Chief Coordinator. There were 36Participants from various departments of KSIT.



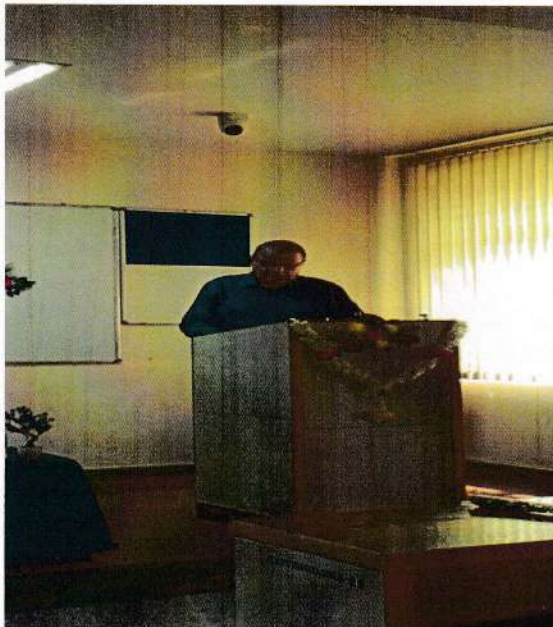
After the innovation Dr.Dilip Kumar K, Principal / Director, KSIT gave welcome address and welcomed all the dignitaries and HOD's of various department.



Dr.M. Umashankar Prof.& HOD-ME, Chief Coordinator of the SDP briefed about 3 days SDP Programme.



Sri.R.Rajagopal Naidu, President, Kammavari Sangham spoke about the importance of SDP. This was followed by a motivational address by Dr. K.V.A Balaji CEO, KSGI.



Dr. Nirmala Prof Dept. of Mechanical Engineering, gave Vote of thanks and Inaugural function ended with High Tea.

On the Day1: 1st session was at 10.30 am about **“Each one is great in his own way”**

In this session Chief Guest Dr.V.Raghu, Principal, Silicon City College of Management & Commerce, Bangalore spoke about how to balance between Physical, Mental and spiritual Personality. He explained the difference between Work and Service.



In Session 2 of Day 1 the resource persons were Mr.Kusahl Kumar BN and Dr. Vanitha M Asst Prof. CSE dept. KSIT. In this session participants got very good information about handling excel sheet and Mail option in a smart and efficient way.





Date: 5th April 2022 2nd day of STP

Resource Person: Mrs. Anuradha V and Dr. Renuka C, BS, KSIT

Day 2 sessions began at 9.00 am. The second day session was very informative

Session 1: This session is about “**Communication Skills**”

Mrs. Anuradha V and Dr. Renuka C stressed on importance of Communication in proper way and methods to be used to convey the message. How the body language should be when interacting with the people irrespective of gender. Encouraged everyone to learn English language.



Session 2:

Resource Person: Dr. Shekar, MBA, KSSEM

This session is about **Team skills + Team building**

In this session Dr. Shekar Sir explained the roles and responsibility of staff in an organisation. Building a team and work according to the requirement. Resource person spoke about stakeholder accountability. Encouraged everyone to accept and understand the role we are going to play in building a brand KSGL.



Session 3:

This session is about **“Basics of Photoshop and similar application”**

Resource Person: Mr. Nithin V, KSIT.

In this session we learnt to use basic tools in Adobe Photoshop to design an invitation card. Mr. Nithin handled the session very effectively.



Day 3 of the SDP on **“Capacity Building”**.

Date: 6th April 2022

Resource Person: Prof. Sreedhar N, MBA, KSSEM Session-1:

This session is about **“Personhood to personality to achieve success”**



Third day training started at 9.00am. Prof. Sreedhar N given some valuable inputs towards how to work in a challenging environment while attaining desired skills required and updating the same time to time. The speaker also spoke about handling the work assigned in an effective and efficient way.

Session-2:

Resource Person:Dr.Ramanarasimha, Principal, KSSEM

This session is about **“Time management ”**



In this session **Dr.Ramanarasimha, Principal, KSSEM** told us to do the work on priority base. He had given tips regarding how to manage Interruption in the work. Encouraged us to utilize the

inactive session for the productivity and to the work one at a time. He also given us points to be noted about Code of conduct inside the campus and importance of confidentiality. This Session was very encouraging.

Session-3:

This session is about “Sahaja Yoga ”



In this session **mentors** from Sahaja yoga involved us in Sahaja Yoga Practice and talked about importance of yoga in modern community to handle the stress.

FDP Outcome:

Faculties got opportunity to understand the meaning of Outcome Based Education and methods to be followed to achieve OBE

FDP Topic	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Outcome Based Education	-	-	-	-	-	-	-	2	2	3	-	3

Outcomes of the Event:

- In this workshop ethical values and responsibility towards college was briefed.
- This work also briefed about improving communication skills & knowledge for data entry in the excel sheets.
- Various activities were conducted to improve individual and team work.


Signature of Co-ordinator


Signature of Principal

PRINCIPAL
K.S INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109



Kammavari Sangham (R) 1952 K.S.Group of Institutions

K. S. Institute of Technology

Raghuvanahalli, Kanakapura Road, Bengaluru-560109

3 Days Staff Development Programme for Capacity Building on
4th to 6th April 2022

Day / Date	9.00am to 10.30am	10.30am to 10.45am	10.45am to 12.30pm	12.30pm to 01.15pm	1.15 pm to 3.15pm
Day 1 Monday 4 th April 2022	Registration 9am to 9.30am Inauguration 9.30am to 10.30am	Tea Break	Dr. V Raghu Each one is Great in his Own Place Mr.	Lunch Break	Mr. Kushal Kumar B N Dr. Vanitha M & M S – Excel & Email
Day 2 Tuesday 5 th April 2022	Mrs. Anuradha V Dr. Renuka C Communication Skills		Dr. Shekar Team Skills + Team Building		Nithin V Hands-on M S Word & Letter drafting, Leave Letter, Circular, Memo
Day 3 Wednesday 6 th April 2022	Mr. Sridhar Personality Development		Dr. K. Rama Narasimha Time Management Code of Conduct		Sahaja Yoga Meditation + Valedictory Function



KAMMAVARI SANGHAM (R) - 1952

KS INSTITUTE OF TECHNOLOGY

(Approved by AICTE, New Delhi; Affiliated to VTU, Belagavi, Karnataka; Accredited by NAAC)

#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109

Tel: 080-28435722 / 24 Web : www.ksit.edu.in

The Mangement, CEO, Principal & Staff
Cordially invite you for the Inaugural Function of

3 Day's Staff Training Programme for

"CAPACITY BUILDING"

Monday, 4th April 2022 at 9-30 am in Ground Floor Seminar Hall,
New Block, KSIT

Chief Guest

Dr. V. Raghu

Principal, Silicon City College of
Management & Commerce, Bengaluru

Presided By

Sri. R. Rajagopal Naidu

President, Kammavari Sangham

Will Grace the Occasion

Sri. R. Leela Shankar Rao

Hon. Secretary, Kammavari Sangham

Sri. T. Neerajakshulu Naidu

Treasurer, Kammavari Sangham

Dr. K. V. A. Balaji

CEO, KSGI

Dr. M. Umashankar

Prof & Head, Mech. Engg. Dept.
Coordinator

Dr. Dilip Kumar K
Principal / Director

[Signature]
31/3/22

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