

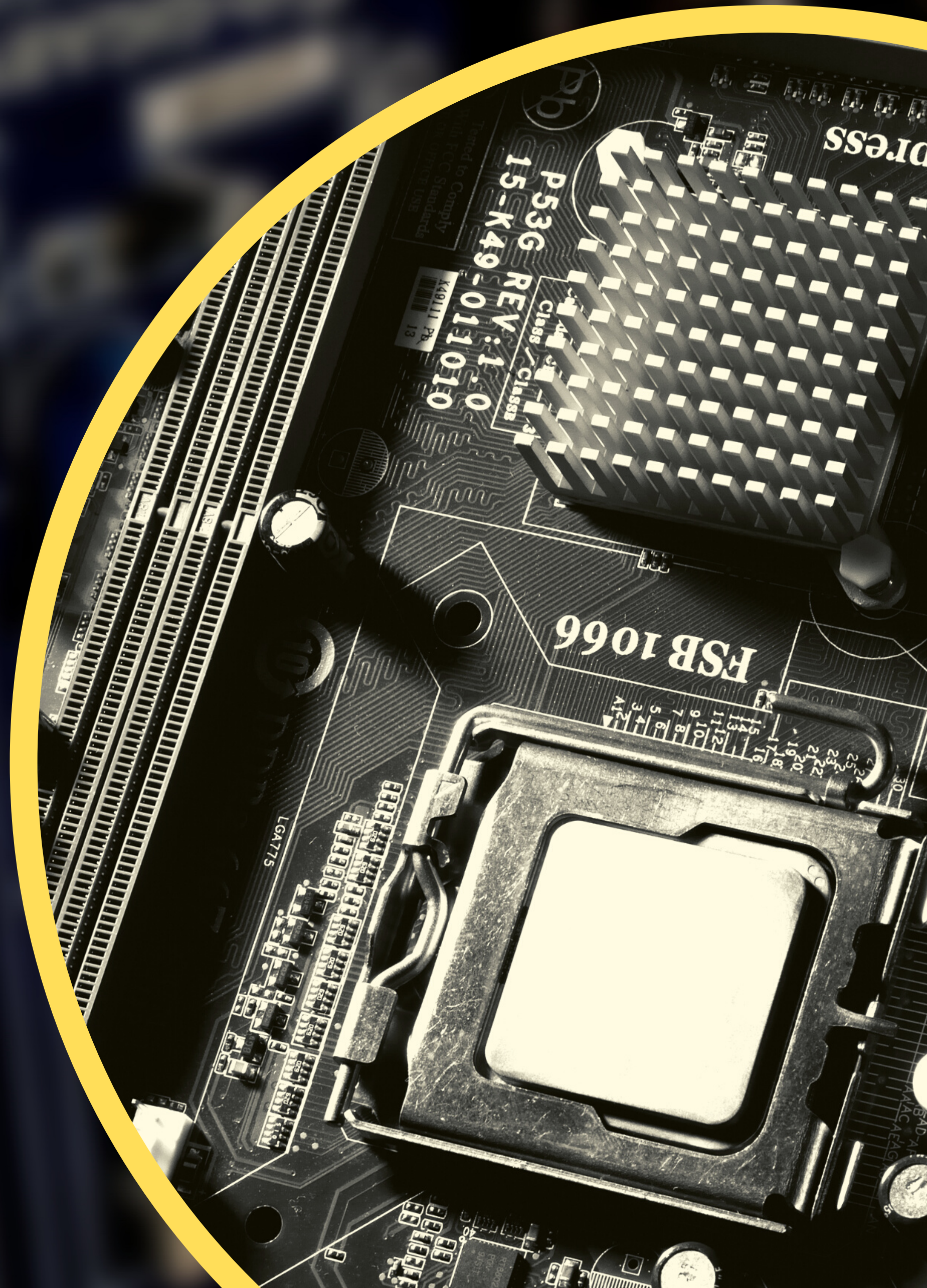


MIND SPARK

INSTRUMENTATION AND CONTROL DEPARTMENT

ISSUE - VII

**JULY - DECEMBER
2022**





DR. SWETA P. DAVE

**PRINCIPAL
GOVERNMENT ENGINEERING COLLEGE, GANDHINAGAR.**

As the principal of this esteemed educational institute, I welcome you to have a sneak peek on the latest edition of news-letter of I.C. Department. I am overjoyed to share my words ; GEC Gandhinagar entity is committed to provide high-quality education and to organize best character development events. This daunting journey has never been easy for any student and it never will be; hence our faculties and staff members are working tirelessly to make this journey smooth. To give the students best knowledge and to make them ready for the outside competition has always been institute's top priority. The designing team has played an inevitable role to convey my words to you . I appreciate the team and staff members for their time, energy & hard work. I wish everyone to unleash all their capabilities to achieve success.



DR. NARENDRA K. ARORA

**H.O.D., I & C
GOVERNMENT ENGINEERING COLLEGE, GANDHINAGAR.**

It feels great to publish our 7th edition of newsletter. GEC gandhinagar has always been a prestigious institute when it comes to engineering. I am grateful that I got a chance to work here and help many young engineering talents. The institute has always been working in direction of student's career and overall development. It is matter of proud that we have made so many young and professionally trained engineers. All the faculty members and staff are heartily welcomed for their enormous assistance. We will push all our limits to encourage and nourish these young talents. I wish all the best to every student for their academic career.

DEPARTMENT INSTRUMENTATION AND CONTROL

THE INSTITUTION

THE FACULTY

THE DEPARTMENT

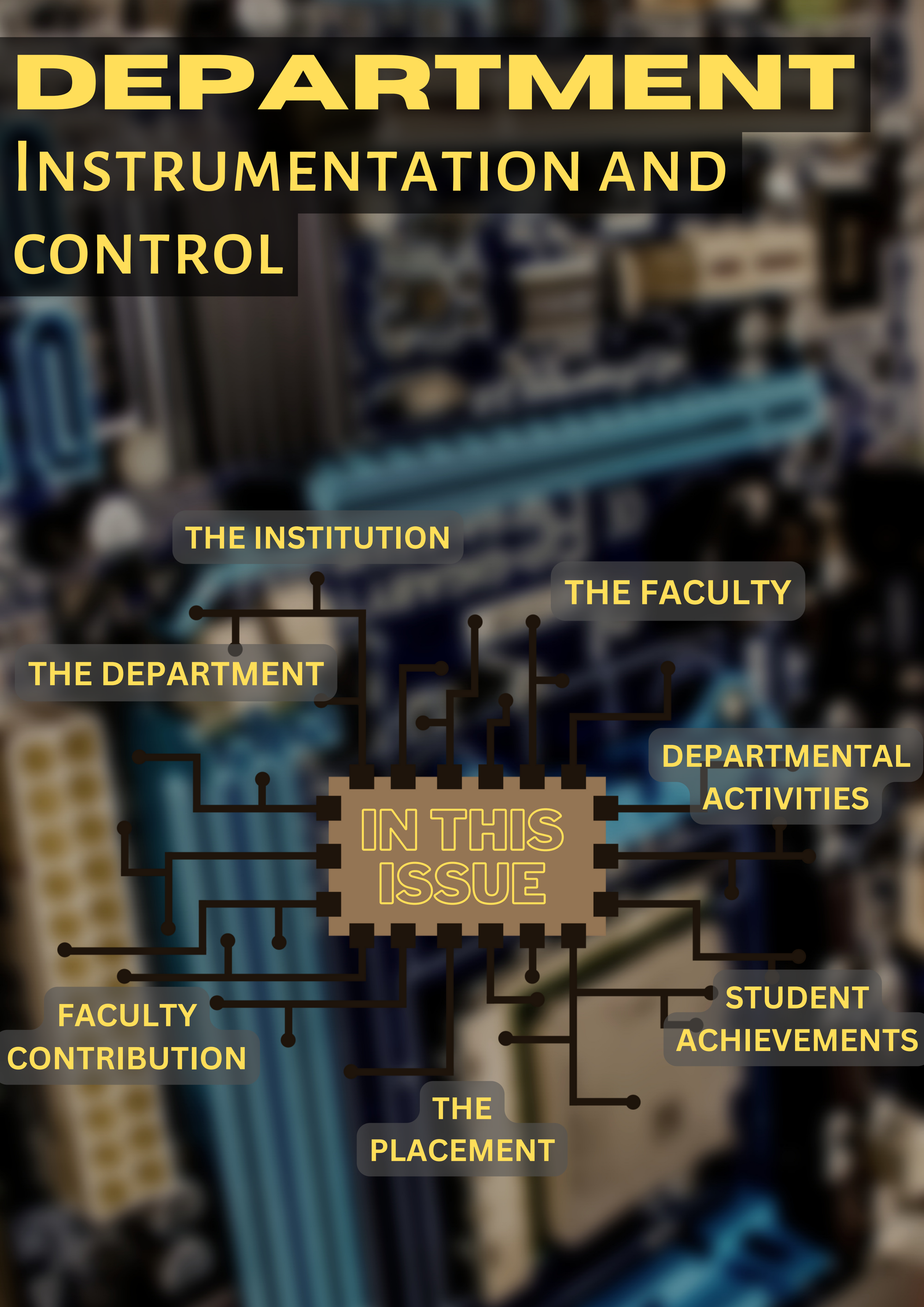
DEPARTMENTAL
ACTIVITIES

IN THIS
ISSUE

FACULTY
CONTRIBUTION

STUDENT
ACHIEVEMENTS

THE
PLACEMENT





THE INSTITUTION

VISION

- To be a premier engineering institution, imparting quality education for innovative solutions relevant to society and environment.

MISSION

- To develop human potential to its fullest extent so that intellectual and innovative engineers can emerge in a wide range of professions.
- To advance knowledge and educate students in engineering and other areas of scholarship that will best serve the nation and the world in future.
- To produce quality engineers, entrepreneurs and leaders to meet the present and future needs of society as well as environment.

THE DEPARTMENT

VISION

- To impart quality education in Instrumentation & Control engineering through innovation to meet technological challenges of industries and society with environmental consideration.

MISSION

- To impart knowledge about present trends in the field of Instrumentation & Control engineering.
- To train competent Instrumentation & Control engineers who can design, operate process instrumentation and also manufacturing an automation systems in industries.
- To encourage students to work on innovative research projects related to Instrumentation & Control engineering considering environmental aspect.

PEO

Program Education Objective statements

- To operate and maintain industrial Instrumentation & Control system.
- To design Industrial Instrumentation & Control system by innovative approach.
- To inculcate professional and ethical attitude, effective communication skills, multidisciplinary approach and an ability to relate Engineering issues in social and environmental context.
- To acquire the ability for life-long learning needed for a successful professional career.

PSO

Program Specific Outcome

- Design and develop solutions for process control and automation industries and able to pursue career in research, industry, higher studies and adapt to changing technology.
- Able to understand professional and ethical responsibility with effective communication skills and life-long learning.

THE FACULTY

TEACHING STAFF DETAILS



PROF. M.R. JANI

DESIGNATION : ASSOCIATE PROFESSOR
QUALIFICATION : ME (IC)
EXPERIENCE : 27 YEARS 6 MONTHS



DR. S. A. RANKAWAT

DESIGNATION : ASSOCIATE PROFESSOR
QUALIFICATION : PHD
EXPERIENCE : 27 YEARS 6 MONTHS



DR. D. H. SHAH

DESIGNATION : ASSOCIATE PROFESSOR
QUALIFICATION : PHD
EXPERIENCE : 23 YEARS 6 MONTHS



PROF. A. D. RATHOD

DESIGNATION : ASSOCIATE PROFESSOR
QUALIFICATION : ME (IC)
EXPERIENCE : 22 YEARS 6 MONTHS



PROF. M. B. HINGU

DESIGNATION : ASSISTANT PROFESSOR
QUALIFICATION : M.TECH., SYSCON-IITB
EXPERIENCE : 25 YEARS 6 MONTHS. 01 YEARS INDUSTRY



PROF. I. U. AJMERI

DESIGNATION : ASSISTANT PROFESSOR
QUALIFICATION : ME (IC)
EXPERIENCE : 24 YEARS 6 MONTHS

THE FACULTY....



PROF. K. C. DAVE

DESIGNATION : ASSISTANT PROFESSOR

QUALIFICATION : M.TECH (E AND TC)

EXPERIENCE : 13 YEARS 6 MONTHS



PROF. K. K. ACHARYA

DESIGNATION : ASSISTANT PROFESSOR

QUALIFICATION : ME (IC)

EXPERIENCE : 22 YEARS 6 MONTHS. 02 YEARS INDUSTRY



DR. K. B. PATHAK

DESIGNATION : ASSISTANT PROFESSOR

QUALIFICATION : PHD

EXPERIENCE : 18 YEARS 6 MONTHS



PROF. K. S. VASHISHTHA

DESIGNATION : ASSISTANT PROFESSOR

QUALIFICATION : ME (IC)

EXPERIENCE : 12 YEARS 6 MONTHS



PROF. N. V. PATEL

DESIGNATION : ASSISTANT PROFESSOR

QUALIFICATION : ME (IC)

EXPERIENCE : 11 YEARS 6 MONTHS OF TEACHING. 05 YEARS INDUSTRY



PROF. P. N. PATEL

DESIGNATION : ASSISTANT PROFESSOR

QUALIFICATION : ME (IC)

EXPERIENCE : 08 YEARS 6 MONTHS



PROF. R. S. RANA

DESIGNATION : ASSISTANT PROFESSOR

QUALIFICATION : M.TECH (IC)

EXPERIENCE : 06 YEARS 6 MONTHS

THE FACULTY....



PROF. R.L. ZADFIYA

DESIGNATION : ASSISTANT PROFESSOR

QUALIFICATION : M.TECH (IC)

EXPERIENCE : 12 YEARS 6 MONTHS



PROF. A.N. BOKADE

DESIGNATION : ASSISTANT PROFESSOR

QUALIFICATION : ME (IC)

EXPERIENCE : 17 YEARS 6 MONTHS



PROF. J.J. SHAH

DESIGNATION : ASSISTANT PROFESSOR

QUALIFICATION : ME (IC)

EXPERIENCE : 06 YEARS 6 MONTHS

DEPARTMENTAL ACTIVITIES

- GEC Gandhinagar, Department of Instrumentation & Control, organized a One day workshop on "Control System Design Fundamentals" on 22nd and 29th July 2022. Prof. Manish R. Jani (Associate Professor, IC Dept), Prof. Mukesh B. Hingu (Assistant Professor, IC Dept) and Dr. Kalpesh B. Pathak (Assistant Professor, IC Dept) had conducted the sessions. This workshop covered modern control theory using state-space analysis and compensation in both time and frequency domain. Hands-on sessions were planned for case studies with industrial applications. Tools used for hands-on practice were MATLAB and SCILAB. More than 60 students of all branches actively participated in this event.



GOVERNMENT ENGINEERING COLLEGE, SECTOR-28, GANDHINAGAR
INSTRUMENTATION & CONTROL DEPARTMENT
IS ORGANIZING
A
WORKSHOP ON
"Control System Design Fundamentals"

Session Experts
Prof. M.R.Jani Prof. M.B.Hingu Dr. K.B.Pathak

DATE: 29TH JULY 2022
TIME: 11:30 AM TO 5:00 PM

Registration & Information Link
<https://forms.gle/ZSbi1VhMpCirayFT7>

PATRON
Dr. SWETA P. DAVE
PRINCIPAL
GEC, GANDHINAGAR

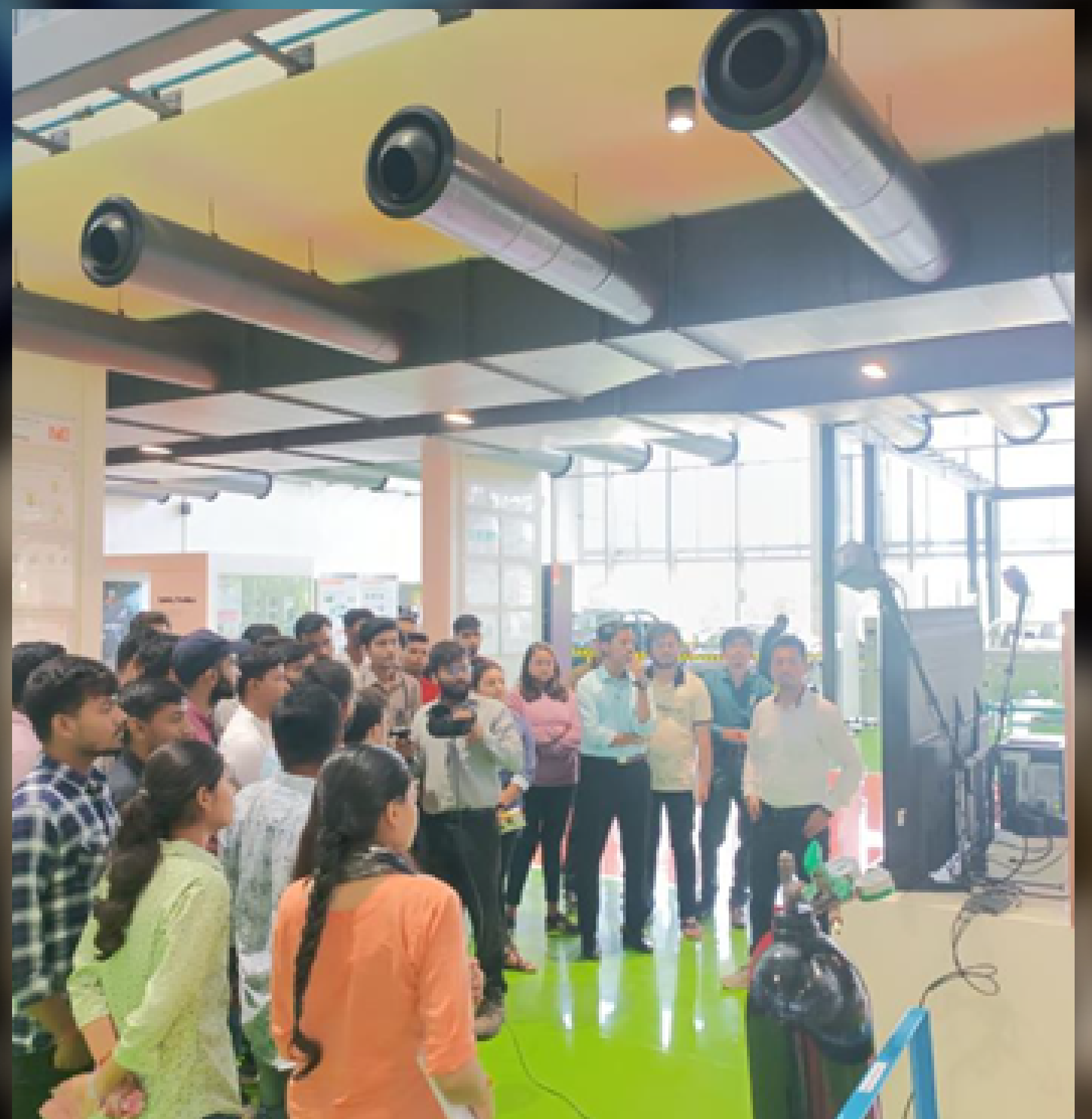
CONVENER
Dr. D.H.SHAH
HOD (I.C.),
GEC, GANDHINAGAR

CO-ORDINATORS
Prof. M.R.JANI Dr. K.B.PATHAK
ASSO.PROFESSOR (I.C.) ASST.PROFESSOR (I.C.)



DEPARTMENTAL ACTIVITIES

- Industria visit was planned for semester 7 students at IACE(International Automobile Centre Of Excellence), at IACE, Raysan Road, Knowledge Corridor, Gandhinagar, on 26/08/2022 (Friday). Students visited vehicle system labs, manufacturing workshops and electronics labs. This centre hosts the latest technology across the automotive systems & manufacturing process.



DEPARTMENTAL ACTIVITIES

- Vande Gujarat event was planned and organized to celebrate the foundation day of our state Gujarat and to express gratitude to our state for being prime contributor in the progress of nation. Instrumentation & Control department jointly organized Vande Gujarat programme with Gymkhana for the students of all the branches of institute, on 13th & 14th July 2022. Event was organised as a part of celebration of Azadi Ka Amrut Mahotsav with participation of students in activities like Article writing, વધુલેખ, વાચિકમ્, short story writing and digital poster making.

GOVERNMENT ENGINEERING COLLEGE, SECTOR-28, GANDHINAGAR
INSTRUMENTATION & CONTROL DEPARTMENT AND GYMKHANA

75
આજ્ઞાદીકા
અમૃત મહોત્સવ

Programme
under the "Azadi Ka Amrut Mahotsav" and "વંદે ગુજરાત"

ACTIVITIES

1. Essay 2. Elocution 3. વધુલેખ 4. વાચિકમ

DATE: 13TH JULY 2022 & 14TH JULY 2022
TIME: 2:30 PM TO 5:00 PM

Registration Link
<https://bit.ly/3Py53ox>

Information Link
<https://bit.ly/3Pb43cy>

PATRON
Dr. N.K.ARORA
PRINCIPAL,
GEC, GANDHINAGAR

CONVENER
Dr. D.H.SHAH
HOD (I.C.),
GEC, GANDHINAGAR

CO-ORDINATORS
Prof. M.R.JANI
ASSO.PROFESSOR (I.C.)

Prof. P.N.PATEL
ASST.PROFESSOR (I.C.)

GYMKHANA COORDINATOR
Dr. K.B.PATHAK
ASST.PROFESSOR (I.C.)



Digital Poster Making



વાચિકમ્



Story/Article Session



Story/Article Session

DEPARTMENTAL

ACTIVITIES

- A seminar on “Robotics & Embedded System” was planned by the IC department for 3rd and 4th year students, on 30/08/2022. Mr. Vishal Vadher (Assistant Manager-Training) was the session expert from SOFCON Automation India Pvt. Ltd., Ahmedabad.

75 GOVERNMENT ENGINEERING COLLEGE, SECTOR-28, GANDHINAGAR
INSTRUMENTATION & CONTROL DEPARTMENT
IS ORGANIZING
A
SEMINAR ON
“Robotics & Embedded Systems”
Session Expert
Mr. Vishal Vadher (Asst Manager-Training)
SOFCON AUTOMATION INDIA PVT. LTD.
DATE: 30TH AUGUST 2022
TIME: 11:00 AM TO 1:00 PM
VENUE: IC DEPT. GEC GANDHINAGAR

PATRON Dr. SWETA P. DAVE PRINCIPAL, GEC, GANDHINAGAR	CONVENER Dr. D.H.SHAH HOD (I.C.), GEC, GANDHINAGAR	CO-ORDINATOR Prof. K.K.ACHARYA ASST.PROFESSOR (I.C.)
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- Pedagogical Session on “NBA CO-PO attainment” was planned on 06/08/2022. Faculties/experts from Metallurgy department had conducted the session.

DEPARTMENTAL

ACTIVITIES

- A seminar on “Robotics & Embedded System” was planned by the IC department for 3rd and 4th year students, on 30/08/2022. Mr. Vishal Vadher (Assistant Manager-Training) was the session expert from SOFCON Automation India Pvt. Ltd., Ahmedabad.



- Pre-placement talk for final year students was organized by IC department on 09/09/2022. Experts from V.B. Tech. Automation, Ahmedabad had conducted the session.



DEPARTMENTAL ACTIVITIES

- An orientation program was organized by the IC department for the first year admitted students of Instrumentation & Control branch and Robotics & Automation branch, on 09/09/2022.



Government Engineering College, Gandhinagar

Orientation Program for First year : 2022



Branch	Room No.	Block No.
EC	2001	2
IC	2101	2
CE	5001	5
IT	5101	5
BM	8011	8



Dr.S.P.Dave
(Principal)

Schedule(09-09-2022)

Branch	Room No.	Block No.
MET	8011	8
CIVIL	3003	3
MECH	8011	8
ROBO	2101	2

1. Department Orientation Presentation (Venue as above in Table)	11:30am to 12:30pm
2. Department Tour for respective students : 1.CE 2. IT 3. IC 4. CIVIL 5. ROBO College Tour for respective students : 1. EC 2. MET 3. BM 4. MECH	1:00pm to 2:00pm
3. Department Tour for respective students : 1. EC 2. MET 3. BM 4. MECH College Tour for respective students : 1.CE 2. IT 3. IC 4.CIVIL 5. ROBO	2:00pm to 3:00pm



DEPARTMENTAL

ACTIVITIES

- A pedagogical session was conducted by Prof.(Dr.) C. B. Bhatt, Principal, GMCA, Ahmedabad, on 26/09/2022. Mission-Vision, PEOs & PSOs of the IC department were reviewed and suggestions were given.



- ISA students chapter of IC department had organized a seminar on “Industrial Automation & Operational Management”, date: 27/09/2022. Mr. Dhruval Chotaliya, CEO, Dwija Inc., was invited as the session Expert.



GOVERNMENT ENGINEERING COLLEGE, SECTOR-28, GANDHINAGAR

INSTRUMENTATION & CONTROL DEPARTMENT



ISA Students Chapter Organizes a Seminar

“Industrial Automation & Operational Management”

Expert Speaker : Mr. Dhruval Chotaliya
CEO, Dwija Inc.

Date : 27 September, 2022
Time: 1.30 PM Onwards
Venue: Room No. 2111

PATRON
Dr. SWETA P. DAVE
PRINCIPAL
GEC'Gn

CONVENER
Dr. N. K. Arora
HOD
(IC Dept.)

ISA Mentor
Dr. S. A. Rankawat
(IC Dept.)

ISA Coordinator
Prof. K. K. Acharya
(IC Dept.)

DEPARTMENTAL ACTIVITIES

- An Alumni meet was organized by IC department on 01/10/2022. Mr. Tejas Trurakhiya, Mr. Nirmal Mehta & Mr. Tejas Prajapati were invited as guest alumni speakers.

Government Engineering College, Sector-28, Gandhinagar
Instrumentation & Control Department



Alumni Meet
Oct-2022



Guest Alumni Speakers



Tejas Turakhia



Nirmal Mehta



Tejas Prajapati

1st Oct-2022

Expert Session : 11:00 am to 1:00 pm

Venue : 2101, IC Department

Cultural Event : 4:00 pm to 7:00 pm



Dr. S. P. Dave
Principal
Patron



Dr. N. K. Arora
HOD (IC)
Convener



Dr. I.B. Dave
Chairman
Alumni Asso.

CO-ORDINATORS: Prof. K C DAVE & Prof. K B PATHAK



- As a part of celebration of Indian Constitution Day, a pledge was taken by the students and the faculties of the department on 25/11/2022.



DEPARTMENTAL

ACTIVITIES

- An expert talk on "Role of Instrumentation and Control Engineering in the Industries" was arranged by the department for I.C. students on 23/12/2022. The session expert was Mr.Pankaj Nandasana, Head of the Department, Oilserv Ltd., Dubai.



- A pedagogical session on "Meditation Techniques" was conducted by Prof.(Dr.) K. B. Pathak in IC department, on 31/12/2022. In this session, proper way of doing meditation and its benefits were discussed among the IC faculties.



FACULTY CONTRIBUTION

- Prof. K. K. Acharya has completed the Innovation Ambassador training 'Foundation Level' (Total 15 sessions of 30 contact hours), conducted in online mode by MoE's innovation Cell & AICTE on 25/08/2022.
- Prof. M. B. Hingu has completed NPTEL-AICTE MOOC Faculty Development Program on "Introduction to Internet of Things".
- Prof. Kapil C. Dave has completed NITTTR SWAYAM online 2 credit FDP program on "Professional Ethics for Higher Education Teachers".
- Prof. Pradeep N Patel has completed a Faculty Development Program on "Governance and management of institutions" at NITTTR, from 29-08-2022 TO 02-09-2022.
- Prof. Aarti Bokade has completed a MOOC course on "Soft Skills" (Organized by NPTEL-AICTE Faculty Development Program)-July-Oct-2022.
- Prof. Niyat V Patel has completed FDP under MOOC on "Python for Data Science" during July-Aug 2022.
- Prof. Jheel J. Shah has completed NITTTR SWAYAM online 2 credit FDP program on "Professional Ethics for Higher Education Teachers".
- Prof. Mukesh B. Hingu has completed FDP under MOOC -NPTEL on "Introduction To Internet Of Things" during July-OCT 2022
- Prof.(Dr.) Kalpesh B. Pathak has completed FDP under MOOC -NPTEL on "Introduction to Industry 4.0 and Industrial Internet of Things" during 25-07-22 to 14-10-22 (Achieved rank in Top 1%, Received Topper Certificate).
- Prof. Keerti S. Vashishtha has completed NITTTR SWAYAM online 2 credit FDP program on "Professional Ethics for Higher Education Teachers".

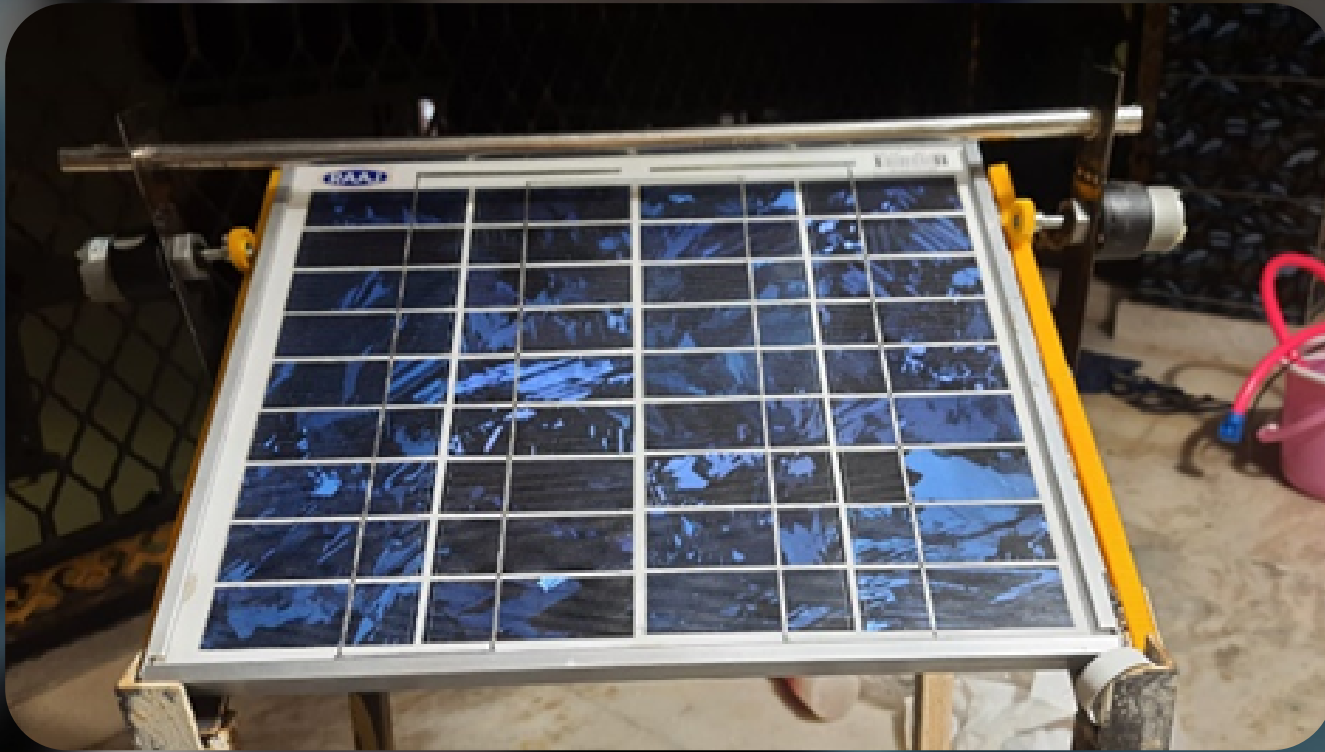
FACULTY CONTRIBUTION

FACULTY PAPER PUBLICATIONS:

- Prof.(Dr.) S.A Rankawat has Published a Journal paper in Physiological Measurement (highly indexed journal- impact factor : 2.688) "An empirical study of modified beat SQI based majority voting fusion method for heart-rate estimation in noisy multimodal cardiovascular signals". Physiological Measurement, Volume 43, Number 12 Citation Shalini A Rankawat 2022 Physiol. Meas. 43 128001DOI 10.1088/1361-6579/ac9bc8

STUDENT ACHIEVEMENTS

DESTEX PROJECT



- Cleanliness of solar panels is a major problem in industries as well as residential areas. The project's main intention is to develop an automated system which can clear every type of solar panels at a single press of button.

"We had many problems while developing the system. But with immense support of faculties and hardwork we were able to make it with ease."

- TEAM DESTEX

Team Details (Sem 5 - IC Students):

Manav Bhatt (Team Leader)	Smit Kamblu (Technical designer)	Vivek Kumar (Research head)	Kunal Sharma (Mechanical Head)	Mudaliar Dhananjay (Technical designer)
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JANMESH CHOKSHI SEM-3

As e-commerce has been my area of interest, I decided to take a course on e-commerce fundamentals. It really turned out well and gave me more deeper knowledge into the field

STUDENT ACHIEVEMENTS....

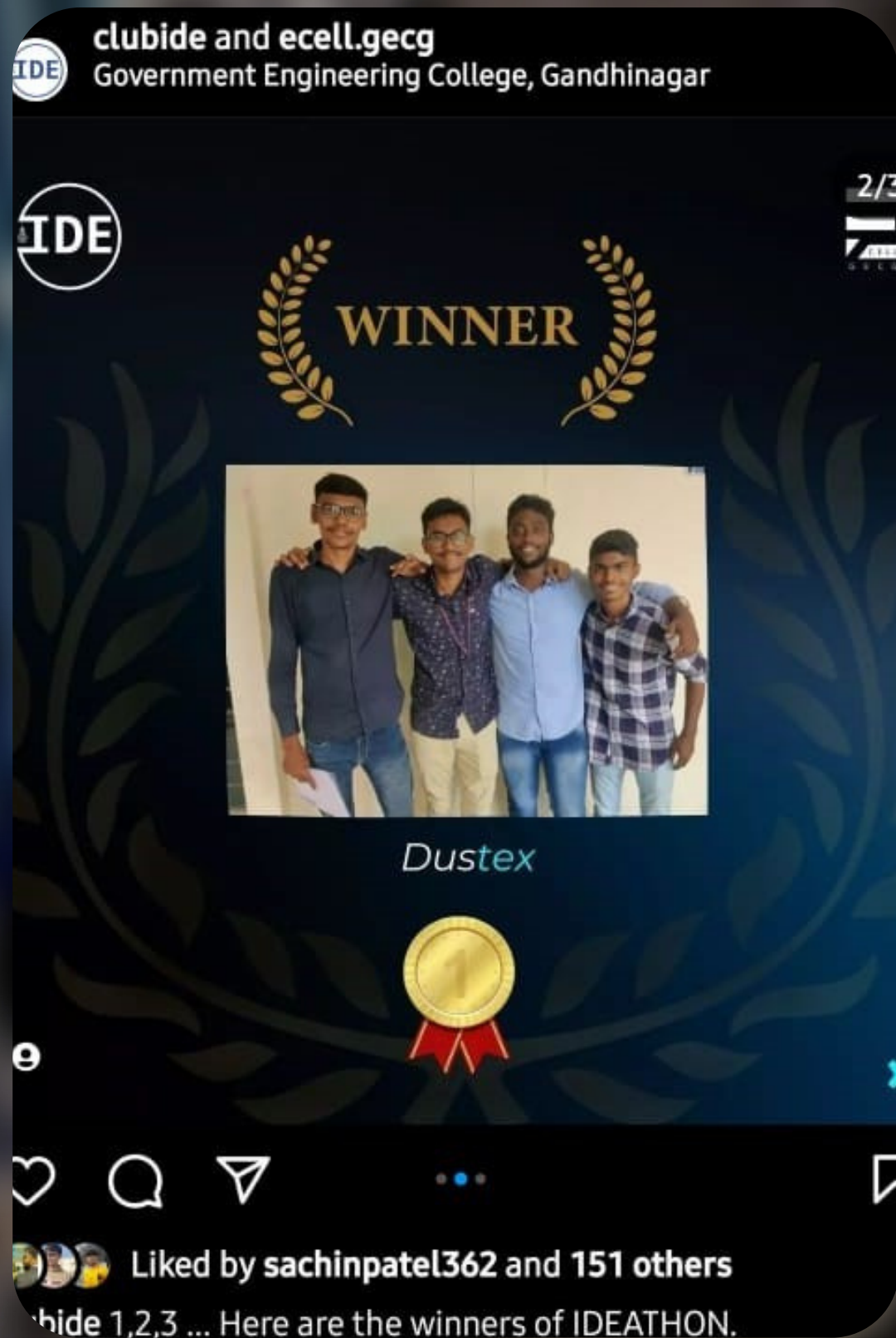


Harsh Vadher and Tejasvini Yadav , Semester-5 Students (both founder members of their start up : "Halostringers") were felicitated by PGVCL(Paschim Gujarat Vij Company Limited). In demo day of PGVCL organized on 14-09-2022, they got 3rd rank and their product String Fuze Detector got third prize. Their start up is mentored at Government Engineering College, Gandhinagar and iHub



Shreya Yadav has attended 2 days workshop, from 14th to 15th October 2022, where she learned about the importance of manufacturing practices, various ways and methods of building miniaturised objects and it's applications in computer technology, electronics and in medical domain.

STUDENT ACHIEVEMENTS....



Kunal Sharma, Manav Bhatt, Mudaliar Dhananjay, Smit Kambli and Vivek Kumar (Semester-5 I.C.) participated in National Level Hackathon and won Ideathon organized by Government Engineering College, Gandhinagar



Pathan Yasharkhan Enrollment No -200130117003 (Sem-5), member of GRC(GTU ROBOTICS CLUB) worked as an operator of Robot R2 in the event conducted on July 16, 2022 at DD ROBOCON in Tyagraj stadium New Delhi. The team achieved Visvesvaraya Design Award for the best robot design. Harsh Sharma, Jay patil and Urvish Shah of Sem-7 were also the part of the team.

THE PLACEMENT

The Training and Placement Cell of the department facilitates the process of placement of students graduating from the institute besides collaborating with leading organizations in setting up internship programs for the students. The Cell provides the infrastructural facilities to conduct pre-placement talks, online and written aptitude tests, group discussions, and interviews.

Our Major Recruiters (July 2022-Dec 2022):



The Placement Glimpses



THE PLACEMENT....

Government Engineering College Gandhinagar Instrumentation and Control Engineering



Parth Makwana



Ritesh Patle



Vedant Panchal



Namrata Tiwari

CONGRATULATIONS



Bhawya Saxena



Devendra Prajapati



Vinisha Fatania



Dhruvrajsinh Piludariya



Deepali Saini

- For Being Placed in -



With package of 6.5 LPA

Government Engineering College Gandhinagar Instrumentation and Control Engineering



Vikas Sachan



Nishtha Acharya



Ajay Maurya

CONGRATULATIONS

- For Being Placed in -



The students have been offered the highest package of 7.5 LPA and an average package of 3.5 LPA. The department congratulates the selected students at this moment and extends best wishes for their future ventures.

THE PLACEMENT...

The Placement Cell EVENTS

The Training and Placement Cell of Instrumentation & Control Engineering organized MOCK placement sessions for pre-final and final year students to make them prepared and organized for the interview process. The Mock sessions were conducted by our Alumni experts to address the pre-final and final-year students about Resume Writing and Interview Skills.

How to prepare their resumes (Session-1), was conducted on 30th July, 2022 by our Alumni, Mr. Akshay Chaudhary and Mr. Jigar Bhatt.



THE PLACEMENT...

Interview Skills (Session-2) was conducted on 3rd Sept., 2022 by our Alumni Mr. Ashutosh Agrawal



**CHAIR PERSON
DR. SWETA P. DAVE,
PRINCIPAL,
G.E.C. GANDHINAGAR.**

**EDITOR
PROF. M. R. JANI
ASSO. PROF., I.C.
G.E.C.
GANDHINAGAR**

**ASSOCIATE EDITOR
PROF. K.S.VASHISHTHA
ASST. PROF., I.C.
G.E.C. GANDHINAGARR**

**DESIGNING SECTION
PRIYANK VAGADIYA ,
3RD SEM
DIYA PATEL,
3RD SEM**

**MATERIAL SECTION
JANMESH CHOKSHI
3RD SEM**



**GOVERNMENT
ENGINEERING COLLEGE
GANDHINAGAR**



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