

GENERAL DEPARTMENT

NEWSLETTER

JANUARY- JUNE, 2022

In this Issue...

MESSAGE FROM HOD	1
FACULTY ACHIEVEMENTS	2
FACULTY PUBLICATIONS	4
FACULTY CONTRIBUTIONS	7
FACULTY PARTICIPATION	15
DEPARTMENTAL EVENTS	17

Welcome Message

We are delighted to have Prof. Narendra K. Arora among us. All faculties from General Department would like extend their warmest welcome and good wishes to him!!! Prof. Narendra K. Arora has joined institute on May 9, 2022.

GOVERNMENT ENGINEERING COLLEGE, GANDHINAGAR

SECTOR-28, NEAR ANIMAL VACCINE CENTER GANDHINAGAR 382028



Message from HOD

We are happy to publish one more issue of the newsletter of the General Department, Government Engineering College, Gandhinagar. It is our attempt to share the research activities, academic contributions and achievements of the faculty members.

As the nation steps into the 76th year of its independence this year, we all gear up for the growth and development which cannot be achieved without quality education. The department faculty members are determined to contribute their share in nation-building through their research and academic endeavors.

The present issue of the newsletter features such accomplishments of the faculty members. We strive to continue doing the work that contributes in the making of the next-generation engineers.

I congratulate the faculty members of the department and the editorial team for their efforts.



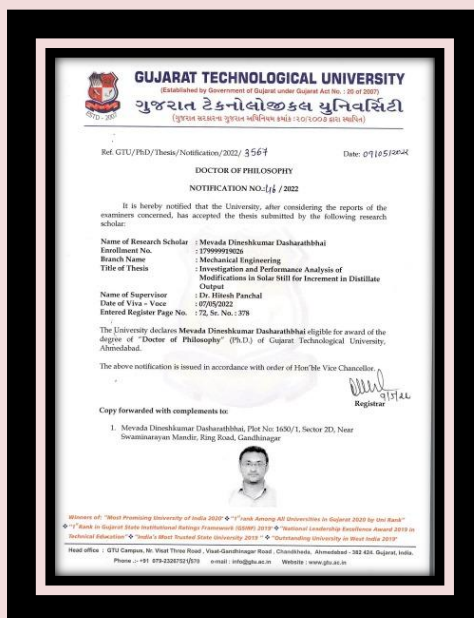
PROF. NARENDRA K. ARORA

HEAD- GENERAL DEPARTMENT

Faculty Achievements

❖ Ph.D. Awardees

- ❖ **PROF. DINESH D. MEVADA HAS BEEN AWARDED THE DEGREE OF DOCTOR OF PHILOSOPHY IN MECHANICAL ENGINEERING BY GUJARAT TECHNOLOGICAL UNIVERSITY IN MAY 2022.**

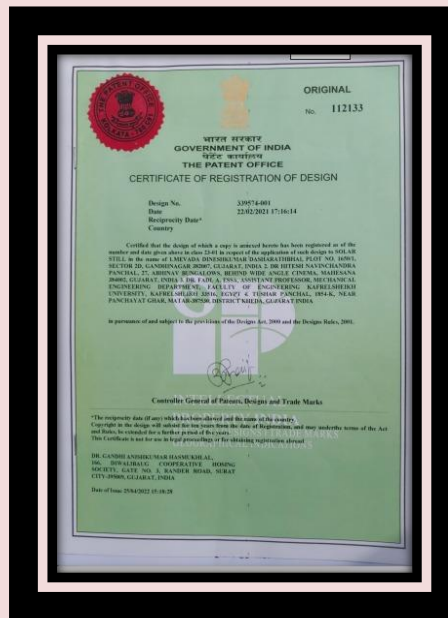


❖ Professional Contribution

- ❖ **DR. NIRAV D. PATEL (MATHS) SERVED AS A SESSION CHAIRMAN IN THE TECHNICAL SESSION EVENT & AS JUDGE THE MATHEMATICAL EVENT IN GUJARAT VIGYAN SAMELAN (2022) ON JANUARY 30-31 & FEBRUARY 01, 2022.**
- ❖ **DR. TARUN PATEL WAS INVITED TO CHAIR A RESEARCH PAPER PRESENTATION SESSION DURING 'ENGLISH LITERATURE SUMMIT 2022' VIRTUAL INTERNATIONAL CONFERENCE HELD ON JANUARY 22-23, 2022.**
- ❖ **DR. TARUN PATEL HAS CO-EDITED A BOOK 'ICT AND LANGUAGE SKILLS' (ISBN 978-81-954623-0-8 WITH DR. SUNIL SHAH, ASSOCIATE**

PROFESSOR, VNSGU, SURAT. THE BOOK HAS BEEN PUBLISHED BY THE INTERNATIONAL SOCIETY FOR EDUCATIONAL LEADERSHIP.

- AN INDUSTRIAL DESIGN PATENT ON 'SOLAR STILL' PROPOSED BY PROF. DINESH D. MEVADA HAS BEEN ACCEPTED AND PUBLISHED BY THE PATENT OFFICE, GOVT. OF INDIA ON APRIL 25, 2022 PATENT APPLICATION NO. 339574-001.



Faculty Publications

❖ **International Journal**

- ✿ **DR. TARUN PATEL'S RESEARCH PAPER TITLED 'STUDY OF THE STREAM OF CONSCIOUSNESS TECHNIQUE IN UNTOUCHABLE BY MULK RAJ ANAND' HAS BEEN PUBLISHED IN 'SHODHSAMHITA' (VOLUME IX, ISSUE - I), A UGC CARE GROUP 1 JOURNAL (IMPACT FACTOR 4.95), JANUARY 2022.**
- ✿ **DR. VASHISHTHA PATEL'S RESEARCH PAPER 'FILM STUDIES: A CINEMATOGRAPHIC KEY BASICS' HAS BEEN PUBLISHED IN 'TOWARDS EXCELLENCE: AN INDEXED, REFEREED & PEER REVIEWED JOURNAL OF HIGHER EDUCATION' VOL.14, ISSUE No.1 (UGC CARE LISTED, ISSN NO. 0974-035X) IN MARCH 2022.**
- ✿ **DR. VASHISHTHA PATEL'S RESEARCH PAPER 'FIELD AND PRACTICAL-BASED TEACHING-LEARNING OUTSIDE THE CLASSROOMS' HAS BEEN PUBLISHED IN 'INTERNATIONAL JOURNAL OF CREATIVE AND INNOVATIVE RESEARCH IN ALL STUDIES', VOL. 4 ISSUE - 11 (ISSN: 2581-5334) IN APRIL 2022.**
- ✿ **PROF. HEMANGINI SHUKLA'S RESEARCH PAPER 'A SIMILARITY APPROACH OF HEAT TRANSFER: THE STUDY OF UNSTEADY SISO FLUID WITH VISCOUS DISSIPATION EFFECT' HAS BEEN PUBLISHED IN THE JOURNAL 'ADVANCES AND APPLICATIONS IN MATHEMATICAL SCIENCES', VOL.21, ISSUE 8, PP. 4811-4831 IN JUNE 2022.**
- ✿ **PROF. PRATIK M. GADHAVI PUBLISHED A RESEARCH PAPER ON "A DFT STUDY OF ELECTRONIC AND THERMOELECTRIC PROPERTIES OF ARSENIC DOPED GRAPHENE" IN "MATERIALS TODAY: PROCEEDINGS' IN THE MONTH OF MAY2022.**

❖ International Conference

- ✿ DR. MAHENDRA A. PATEL PRESENTED A RESEARCH PAPER 'TOTAL NEIGHBORHOOD MAGIC LABELING FOR SOME GRAPHS' DURING THE 'INTERNATIONAL CONFERENCE ON ALGEBRA & DISCRETE MATHEMATICS' ORGANIZED BY DEPARTMENT OF MATHEMATICS, SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE DURING MAY 26-28, 2022.
- ✿ PROF. YAMINI M. PARMAR PRESENTED A RESEARCH PAPER 'DISTANCE MAGIC LABELING FOR SOME PRODUCT GRAPHS' DURING THE 'INTERNATIONAL CONFERENCE ON ALGEBRA & DISCRETE MATHEMATICS' ORGANIZED BY DEPARTMENT OF MATHEMATICS, SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE DURING MAY 26-28, 2022.



❖ National Conference

- ✿ PROF. YAMINI M. PARMAR PRESENTED A RESEARCH PAPER ON 'DISTANCE ANTIMAGIC LABELING FOR PANCYCLICGRAPHS' DURING 'THE NATIONAL CONFERENCE ON EMERGING TRENDS IN DISCRETE MATHEMATICS' ORGANIZED BY DEPARTMENT OF MATHEMATICS, HEMCHADRACHARYA NORTH GUJARAT UNIVERSITY, PATAN, GUJARAT ON FEBRUARY 17-19, 2022.
- ✿ PROF. PRAKASHSINH L. VIHOL PRESENTED A RESEARCH PAPER ON "FIBONACCI CORDIAL LABELING IN THE CONTEXT OF SOME GRAPH OPERATIONS" IN THE NATIONAL CONFERENCE ON EMERGING TRENDS IN DISCRETE MATHEMATICS ORGANIZED BY DEPARTMENT OF MATHEMATICS, HEMCHADRACHARYA NORTH GUJARAT UNIVERSITY, PATAN, GUJARAT, 17-19 FEBRUARY, 2022

❖ Book Chapters

- 🌟 **PROF. SUNILKUMAR AGRAWAL PUBLISHED A BOOK CHAPTER ‘INTELLIGENT METHOD FOR INSTALLATION AND INVESTIGATION OF VSC-HVDC CONVERTER USING METAHEURISTIC ALGORITHM: A CASE STUDY OF UNIFIED OPTIMAL POWER FLOW PROBLEM’ IN THE BOOK, ‘INTELLIGENT DATA ANALYTICS FOR POWER AND ENERGY SYSTEMS’ PP. 185-209 PUBLISHED BY SPRINGER, SINGAPORE IN FEBRUARY 2022.**
- 🌟 **DR. SHASHI V. RANGA HAS PUBLISHED A BOOK CHAPTER ‘CHALLENGES OF E-WASTE MANAGEMENT IN INDIA’ IN THE BOOK, ‘SCIENCE OF ENVIRONMENT-VOLUME-II (ISBN: 978-81-955557-1-0), PUBLISHED BY SCIENCE IN MAY 2022.**

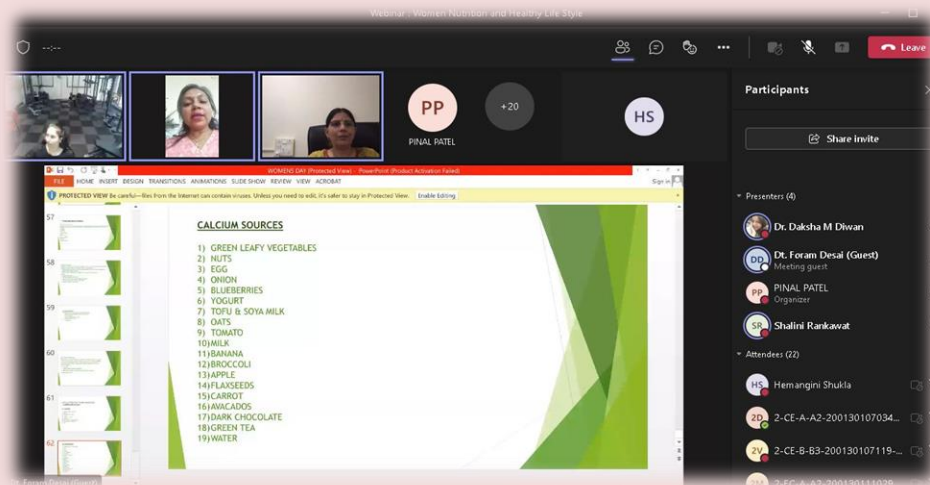
Faculty Contributions

- ✿ **DR.N.D.PATEL & DR. TARUN PATEL SERVED AS A MEMBER IN THE INVITATION COMMITTEE FOR ‘THE INTERNATIONAL CONFERENCE OF ACADEMIC INSTITUTIONS 2022’ HELD AT SCIENCE CITY, AHMEDABAD. (PRE-VIBRANT SUMMIT EVENT)**
- ✿ **DR. SHASHI RANGA CONDUCTED AN EXPERT SESSIONS ON ‘RESEARCH METHODOLOGY’ COURSE WORK (ONLINE) FOR GTU PH.D. STUDENTS (BATCH-2021) OF SCIENCE DISCIPLINE DURING JAN-22 –FEB-22, 2022.**
- ✿ **DR. VASHISHTHA PATEL DELIVERED AN EXPERT TALK ON ‘LIFE SKILLS AND CONTRIBUTOR PERSONALITY DEVELOPMENT’ ORGANIZED BY HSS DEPARTMENT AT CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY, CHANGA ON MARCH 25,2022.**
- ✿ **DR. VASHISHTHA PATEL DELIVERED EXPERT TALK ON “PRESENTATION SKILLS” ORGANIZED BY HSS DEPARTMENT AT CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY, CHANGA ON MARCH 25,2022.**





- DR DAKSHA M DIWAN ORGANIZED A WEBINAR ON ‘INTERNATIONAL WOMEN’S DAY’ ON MARCH 08, 2022, UNDER WOMEN DEVELOPMENT CELL (GEC-GN) FOR STUDENTS AND FACULTIES. THE PROGRAM WAS CONDUCTED ONLINE. MRS. FORAM DESAI, FOUNDER& DIRECTOR FGII, SURAT WAS INVITED AS A SPEAKER FOR THE SESSION.**



- DR DAKSHA M DIWAN ORGANIZED A SEMINAR ON ‘SOCIAL ENTREPRENEURSHIP AND DEVELOPMENT’ ON TUESDAY, APRIL 19, 2022 AT C. V. RAMAN HALL, GEC GANDHINAGAR UNDER WOMEN DEVELOPMENT CELL (WDC-GN). MR. KAUSHAL GOHIL, FOUNDER AND PRESIDENT, SWASARJAN FOUNDATION WAS INVITED AS A SPEAKER FOR THIS SESSION.**



✿ **DR DAKSHA M DIWAN ORGANIZED AN EVENT ON ‘SELF DEFENSE FOR WOMEN’ ON FRIDAY, APRIL 29, 2022 AT BLOCK NO.6, GEC- GANDHINAGAR UNDER WOMEN DEVELOPMENT CELL (WDC-GN) IN HYBRID MODE. SHIHAN RAMESH Z. VASAVA, CHIEF INSTRUCTOR & TECHNICAL DIRECTOR EXAMINER-INDIA, WAS INVITED AS A SPEAKER FOR THE EVENT.**



✿ **DR. N. D. PATEL COORDINATED THE FOLLOWING EVENTS UNDER INSTITUTE'S NSS- GYMKHANA PROGRAM.**

- **VILLAGE VISIT FOR PUNCH PRAKALP**
- **WORLD ENVIRONMENT DAY ON JUNE 05, 2022**
- **YOGA DAY ON JUNE 21, 2022**
- **SEED BALL.**



GLIMPSE OF VILLAGE VISIT FOR PRANCH PRAKALP PROGRAM





બ્રિજ ગ્રુપ દ્વારા સેક્ટર-૨૮માં વૃક્ષારોપણ



વિશ્વ પર્યાવરણ દિવસ નિમિત્તે ગાંધીનગર શહેર અને જિલ્લામાં વૃક્ષારોપણના અનેક કાર્યક્રમો યોજાયા હતા. બ્રિજ ગ્રુપ દ્વારા સરકારી એન્જિનીયરિંગ કોલેજ, સેક્ટર-૨૮ના પરિસરમાં વૃક્ષારોપણનો કાર્યક્રમ યોજવામાં આવ્યો હતો, જેમાં ગાંધીનગર મહાનગરપાલિકાના મેયર, ડેપુટી મેયર અને સ્ટેન્ડિંગ કમિટીના ચેરમેન સાથે પર્યાવરણપ્રેમી નાગરિકો પણ જોડાયા હતા. સહુએ સાથે મળીને વૃક્ષારોપણ કર્યું હતું અને ગાંધીનગરમાં હરિયાળી જળવાઈ રહે તેવા સંકલ્પની પુનરાકિત કરી હતી.

GLIMPSES ENVIRONMENT DAY CELEBRATION IN GEC-GANDHINAGAR CAMPUS



GLIMPSES OF SEED BALL EVENT ORGANIZED IN GEC-GANDHINAGAR CAMPUS



YOGA DAY CELEBRATION IN GENERAL DEPARTMENT, AT WORKSHOP BUILDING

Faculty Participation

- ✚ **DR. TARUN PATEL PARTICIPATED IN ONE-WEEK SHORT TERM TRAINING PROGRAM ‘IMPACTFUL PEDAGOGICAL SKILLS AND RESTRUCTURING OF COLLABORATIONS’ ORGANIZED ONLINE BY L. D. COLLEGE OF ENGINEERING, AHMEDABAD DURING JANUARY 17-21, 2022.**
- ✚ **DR. MAHENDRA A. PATEL COMPLETED 08-WEEK NPTEL MOOC COURSE ON ‘GRAPH THEORY’ FROM JANUARY 24, 2022 TO MARCH 18, 2022.**
- ✚ **PROF. YAMINI M. PARMAR COMPLETED 08-WEEK NPTEL MOOC COURSE ON ‘GRAPH THEORY’ FROM JANUARY 24, 2022 TO MARCH 18, 2022.**
- ✚ **PROF. PRAKASHSINH L. VIHOL COMPLETED THE 08-WEEK NPTEL MOOC COURSE ON "GRAPH THEORY" FROM 24 JANUARY, 2022 TO 18 MARCH, 2022.**
- ✚ **DR. SHASHI V. RANGA COMPLETED 12-WEEK NPTEL MOOC COURSE ON ‘LEADERSHIP AND TEAM EFFECTIVENESS’ FROM JANUARY 24 TO APRIL 15, 2022 WITH ELITE CERTIFICATION.**
- ✚ **DR. DAKSHA M DIWAN COMPLETED 12-WEEK NPTEL MOOC COURSE ON ‘LEADERSHIP AND TEAM EFFECTIVENESS’ FROM JANUARY 24 TO APRIL 15, 2022 WITH ELITE CERTIFICATION.**
- ✚ **PROF. HEMANGINI SHUKLA COMPLETED 12-WEEK NPTEL MOOC COURSE ON ‘LEADERSHIP AND TEAM EFFECTIVENESS’ FROM JANUARY 24 TO APRIL 15, 2022 WITH ELITE CERTIFICATION.**
- ✚ **PROF. HEMANGINI SHUKLA COMPLETED 12-WEEK MOOC FACULTY DEVELOPMENT PROGRAMME ON ‘DISCRETE MATHEMATICS’ FROM JANUARY 24 TO APRIL 15, 2022.**
- ✚ **DR. JIGNESH M. PANCHAL COMPLETED THE 12-WEEK NPTEL MOOC COURSE ON “NON CONVENTIONAL ENERGY RESOURCES” DURING JANUARY- APRIL 2022.**

- ✿ **PROF. PRATIK M. GADHAVI COMPLETED THE 12-WEEK NPTEL MOOC COURSE ON “NON CONVENTIONAL ENERGY RESOURCES” DURING JANUARY- APRIL 2022.**
- ✿ **PROF. PRATIK M. GADHAVI COMPLETED THE 12-WEEK NPTEL MOOC COURSE ON “ELECTRONIC THEORY OF SOLID” DURING JANUARY- APRIL 2022.**
- ✿ **PROF. PRAKASHSINH L. VIHOL COMPLETED THE 08-WEEK NPTEL MOOC COURSE ON " ENHANCING SOFT SKILLS AND PERSONALITY " FROM FEBRUARY 21, 2022 TO APRIL 15, 2022.**
- ✿ **DR. SHASHI V. RANGA ATTENDED AN ONLINE ONE WEEK TRAINING PROGRAM ON ‘METALLURGY FOR ALL’ FROM FEBRUARY 21-25, 2022, ORGANIZED BY METALLURGY DEPARTMENT GEC, GANDHINAGAR.**

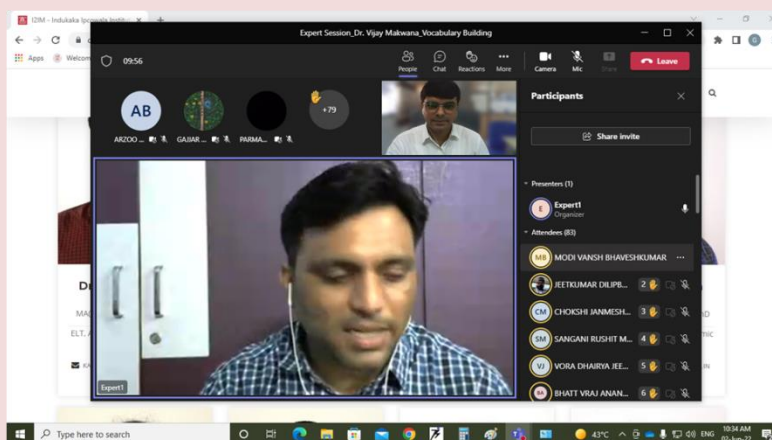
Departmental Events

❖ Expert Lecture Series by General Department (English)

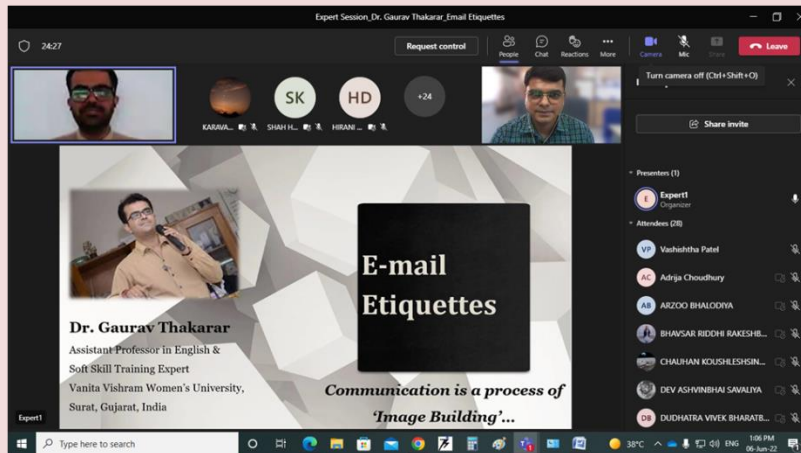
A ONE-WEEK EXPERT LECTURE SERIES FOR ENGLISH SUBJECT WAS ORGANIZED BY THE GENERAL DEPARTMENT, GOVERNMENT ENGINEERING COLLEGE – SECTOR 28, GANDHINAGAR. THE LECTURE SERIES WAS INTENDED TO PROVIDE AN OPPORTUNITY TO THE STUDENTS OF BE SEMESTER - 2 TO REFRESH THEIR LEARNING. THE FOCUS OF THE LECTURES WAS ON THE COMPONENTS OF THE ENGLISH SUBJECT TAUGHT IN THE SAME SEMESTER.

THE CORE OBJECTIVE OF THE LECTURE SERIES WAS TO ENABLE STUDENTS TO IMPROVE THEIR ENGLISH LANGUAGE. THE LECTURE SERIES WAS CONDUCTED ONLINE FROM, JUNE 2-8, 2022.

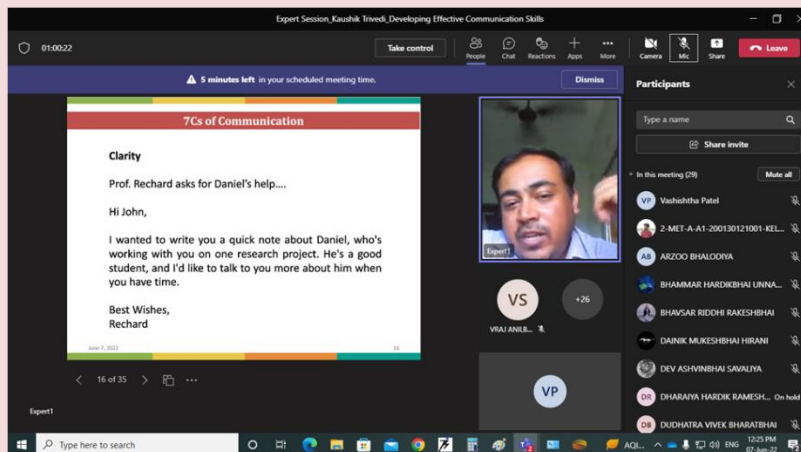
THE EXPERT LECTURE SERIES WAS LED TO SUCCESS THROUGH 04 (FOUR) EXPERT SESSIONS ON THE COMPONENTS OF THE ENGLISH SUBJECT. ONE EXPERT SESSION PER DAY WAS ARRANGED IN A WAY THAT THE STUDENTS GET AT LEAST 10 MINUTES OF TIME FOR QUESTION AND ANSWER SESSIONS. MORE THAN 300 STUDENTS OF BE SEMESTER 2 BENEFITED THROUGH THIS EXPERT LECTURE SERIES.



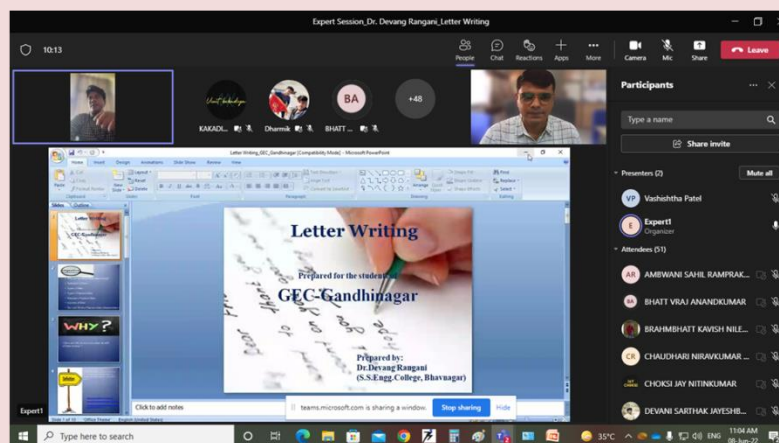
DR. VIJAY MAKWANA TALKED ON VOCABULARY BUILDING



DR. GAURAV THAKRAR TALKED ON E-MAIL ETIQUETTES



DR. KAUSHIK TRIVEDI TALKED ON DEVELOPING EFFECTIVE COMMUNICATION SKILLS



DR. DEVANG RANGANI TALKED ON LETTER WRITING

Message from Editorial Team

WE LIKE TO EXPAND OUR EDITORIAL TEAM FOR NEXT ISSUES. INTERESTED FIRST YEAR STUDENTS ARE INVITED AND MAY CONTACT TO PROF. SUNIL AGRAWAL.

“WHILE CELEBRATING “AZADI KA AMRUTMAHOTSAV” IN 75TH YEAR OF INDEPENDENCE LET VOW, OUR EACH EFFORT LEAD INDIA AS DEVELOP AND PROSPEROUS COUNTRY”

UNTIL NEXT JAI HIND!!!

THANK YOU

***** EDITORIAL TEAM *****

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