# Government Polytechnic Jamnagar

# PRAGYAAN

Major Highlight of The Issue

MANAGA

:Editor:

Payal V. Patel

:Students Team:

**Nisarg Vyas** 

Computer Department

Online Teaching
Activities At
Glance

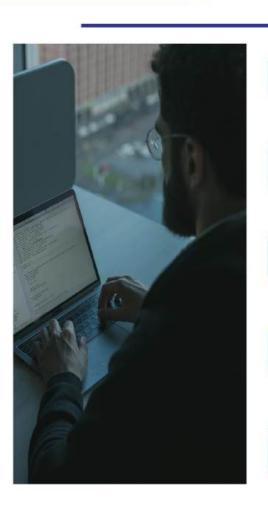
YOGA DAY
CELEBRATION
2021

Vision
Mission
PEOs
PSOs
of Computer Dept

SSIP GRANT, BASIC
IDEA GENERATION
AND APPLICATION
PROCESS



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#### FROM THE DESK OF HEAD OF DEPARTMENT

It is a pleasure to head the department of Computer Engineering Branch. Computers have become an inherent part of our routine life. No department or business can be thought of being fully functional and automated without the use of computers.

Computer engineering helps students widen their creative horizon and provide solutions to the problems people haven't thought about yet.

Our department provides a platform for the students to enhance their employability skill which helps us in achieving our objective of preparing students for a successful career.





# Vision of the Dept

To become a centre of excellence and generate competent professionals in the field of computer engineering for the betterment of the nation and society at large.

### **PEOs**

**PEO1:** Pursue higher education in engineering to enhance knowledge and skills gained in diploma.

**PEO2:** Develop career as professional in software industry, networking, database administration etc.

**PEO3:** Develop innovative and entrepreneurial attitude in order to start an enterprise.

# Mission of the Dept

**M1**:To inculcate into students practical skills.

**M2**:To facilitate students with suitable environment to develop their logical and analytical skills

**M3**:To make available modern technology and related tools for hands-on experience.

**M4**:To inculcate interpersonal skills and ethical values into the students so that they can become successful professionals.

# **PSOs**

**PSO1**: Able to develop computer software such as web applications and desktop applications using appropriate tools.

# ONLINE TEACHING ACTIVITIES AT GLANCE

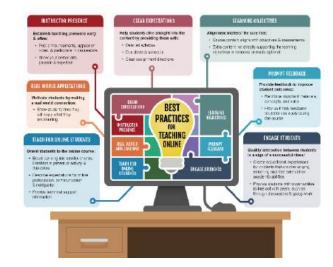
In May month 1<sup>st</sup> Year, GTU Examination was successfully completed in online mode. After GTU Examination teaching was resumed on time in 2<sup>st</sup> semester.

From 7<sup>th</sup> June onwards, Third year students have started taking online lectures.

પુખ્ત વિચારણાને અંતે શૈક્ષણિક વર્ષ ૨૦૨૧-૨૨ માટે પણ શિક્ષણ વિભાગ ફેઠળની સર્વે સરકારી યુનિવર્સિટીઓના મેડીકલ અને ફાર્મસી સિવાયના અભ્યાસકમો માટે નીચે મુજબનું કોમન એકેડેમિક કેલેન્ડર આયી નિયત કરવામાં આવે છે.

<b>5</b> 4	વિગત	સમયગાળો (તારીખ)
٩.	પ્રથમ સત્ર (ug સેમ-3 અને ૫; ચાર વર્ષના ug પ્રોગ્રામમાં સેમ. ૭ પણ તથા pg સેમ-3)	તા.૦૭-૦૬-૨૦૨૧થી ઓનલાઈન શિક્ષણકાર્ય શરૂ કરવું.
	પ્રથમ સત્ર (UG/PG સેમ-૧)	હવે પછીથી જાહેર કરવામાં આવશે.
5	દિવાળી વેકેશન	cii.09-99-2029 थी ता.93-99-2029 (Proposed)
3	યુનિ. વિભાગ/કોલેજોનું આંતરિક મુલ્યાંકન	વિક્લી ટેસ્ટ/પ્રોજેક્ટ વર્ક/ગૃપ ડિસ્કશન વગેરેથી પ્રથમ સત્રના અંત પહેલા
¥	હિતીય સત્ર (ug સેમ. ૪ અને ૬ તથા PG સેમ.૪)	તા.૦૧-૧૨-૨૦૨૧ મુધીમાં શરૂ કરવું
ч	યુનિ. વિભાગ/કોલેજોનું હિતીય સત્ર આંતરિક મુલ્યાંકન	વિકલી ટેસ્ટ/પ્રોજેક્ટ વર્ક/ગૃપ ડિસ્કશન વગેરેથી કેબ્રુઆરી/માર્ચ ૨૦૨૨ સુધીમાં
5	નવું શૈક્ષણિક સત્ર ૨૦૨૨-૨૩	તા.૧૫-૦૬-૨૦૨૨થી શરૂ કરવે

From 28<sup>th</sup> June onwards MID examination were held in semester 2. The online examination was successfully completed through MS Teams.



# WORLD ENVIRONMENT DAY CELEBRATION

World Environment Day is celebrated annually on 5<sup>th</sup> June.

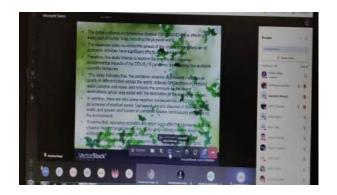
World Environment Day was celebrated in Government Polytechnic, Jamnagar on 5<sup>th</sup> June 2021, as a part of the ongoing co-curricular activities conducted every year. Around 81 students had participated in this event.



Aim to celebrate this day is to create awareness among students regarding environment and related issues.

All the students benefited from the activity and gave an overwhelming response. we are thankful to all students, who had presented valuable content on that day.





We are thankful to the subject expert Shri. Dr. Nirav Shah for sharing their expertise with the students.

TITLE: WORLD ENVIRONMENT DAY CELEBRATION

DATE: 05/06/2021 TIME: 2:30 PM

PATRON: SHRI. A. K. ZALA, PRINCIPAL

COORDINATOR: SHRI. DR. NIRAV SHAH



A webinar was organized by Government Polytechnic Jamnagar on the subject of "Entrepreneurial Traits And competencies". Entrepreneurial competencies are defined as underlying characteristics possessed by a person, which result in new venture creation.

Around 267 students had participated in this webinar from Government Polytechnic College Jamnagar.

The presentation covered the latest trends in the above-mentioned subject in the field of engineering which provided students with highly required skills and knowledge for the advancement of their career. All the students benefited from the activity and gave an overwhelming response.

We are thankful to the subject expert Shri. S. S. PATEL for conducting the webinar and share their expertise with the students.





TITLE: WEBINAR ON ENTREPRENEURIAL TRAITS AND COMPETENCIES

DATE: 07/06/2021

TIME: 11:15 AM to 12:30 PM

**EXPERTS:** 

SHRI. S. S. PATEL, G.E.D. GANDHINAGAR

PATRON: SHRI. A. K. ZALA, PRINCIPAL

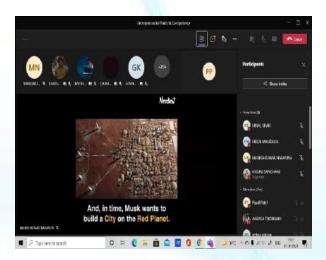
CONVENER: SHRI, H. V. MANDALIA

**COORDINATORS:** 

SHRI. M. D. NARANIYA, SHRI. V. R. MANIAR, SHRI. N. B. SANGHANI







A webinar was organized in our college on the subject of "Develop Mind Set for Stress Free life".

ISTE Faculty Chapter, had organized webinar on "Develop Mindset For Stress Free Life" on 12/06/2021, Saturday at 11:30 AM, with Speaker Mr. Keyur Buch, Motivational Speaker, Rajkot & Mr. S.S.PATEL, CED GANDHINAGAR.



Here are a few ways that should be followed for a stress free life:

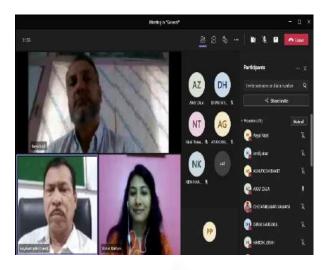
- Keep Revolution in yourself
- Be positive thinker
- Keep Talking v Keep Smiling everyday
- Accept and face your challenges
- Look after yourself Relax
- Meditate

We are thankful to the subject experts for conducting the webinar and share their expertise with us. TITLE: DEVELOP MIND SET FOR STRESS FREE LIFE

DATE: 12/06/2021 TIME: 11:30 AM

**VENUE: ONLINE MS TEAMS** 

ORGANIZED BY: ED CELL AND ISTE TEAM, GOVERNMENT POLYTECHNIC, JAMNAGAR





Government Polytechnic, Jamnagar conducted a webinar on the subject of "SSIP Grant, Basic Idea Generation and Application Process" under SSIP (Student Startup & Innovation Policy) Grant dated 17-June-2021 at timings of 11:30 AM to 01:00 PM via online medium of MS Team. 180 plus students has participated in this event.

Shree K. M. Shah, I/C HOD Computer department, explained to students the idea of idea gathering for innovative creations, how to develop an innovative mindset, roadmap to development of business mindset etc. He also made students aware about pros and cons of doing startup and concluded with suggestions of a few books to read.



Next event speaker Shree R. K. Borsaniya, SSIP coordinator, G. P. Jamnagar, explained to students about practical problems people face in startups as well as rewards people get after successful startup execution. Later he explained the process of application for any student or team interested to get an SSIP Grant in detail. Shree S. N. Vegad, SSIP Committee member, Electrical

Department, explained to students about two use cases of innovative ideas. A success story of G. P. Jamnagar SSIP project called Ion Engine Propulsion System made by Sangam Kumar and Team was discussed by M. D. Naraniya sir for providing motivation to students.



We are thankful to the all subject experts for conducting the webinar and share their expertise with the students.



TITLE: SSIP GRANT, BASIC IDEA GENERATION AND APPLICATION PROCESS

DATE: 17/06/2021

TIME: 11:30 AM TO 1:00 PM

#### **EXPERTS:**

- 1. SHRI. K. M. SHAH, I/C HOD COMPUTER DEPARTMENT
- 2. SHRI. R. K. BORSANIYA, SSIP COORDINATOR
- 3. SHRI. M. D. NARANIYA, SSIP CO-COORDINATOR

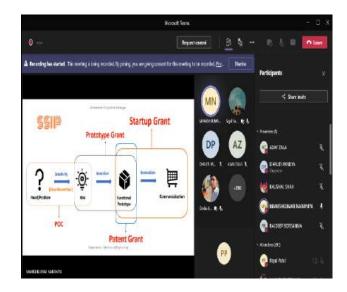
EVENT CO-ORDINATOR: MS. DHRUTI PANDYA, COMPUTER DEPARTMENT

PATRON: SHRI. A. K. ZALA, PRINCIPAL

ORGANIZED BY: SSIP CELL, GOVERNMENT POLYTECHNIC, JAMNAGAR

Honothers - E



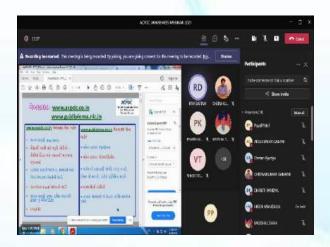




A webinar was organized in our college on the subject of "AWARENESS OF DIPLOMA ADMISSION - 2021".



We are thankful to the subject experts SHRI S. N. VEGAD and SHRI R. J. DATTANI for conducting the webinar and share their expertise with the new students and the faculty members.



TITLE:AWARENESS OF DIPLOMA ADMISSION - 2021

DATE: 19/06/2021 TIME: 11:30 AM

**CONDUCTED BY:** 

SHRI S. N. VEGAD, NODAL OFFICER, ACPDC GOVERNMENT POLYTECHNIC, JAMNAGAR

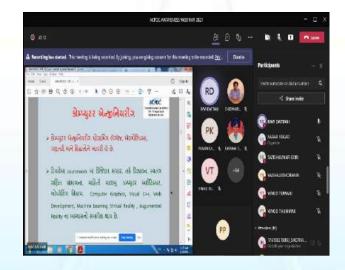
SHRI R. J. DATTANI, OFFICER, ACPDC GOVERNMENT POLYTECHNIC, JAMNAGAR

PATRON: SHRI. A. K. ZALA, PRINCIPAL

DR. V. S. TEJWANI

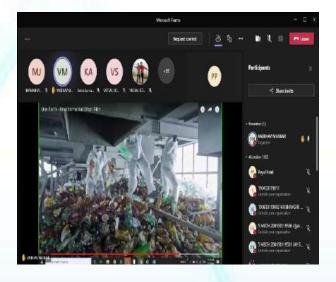
**COORDINATORS:** 

MR. N.S. VEGAD, ELECTRICAL DEPARTMENT
MR. C.C. KAMANI, COMPUTER DEPARTMENT
ORGANIZED BY: GOVERNMENT
POLYTECHNIC, JAMNAGAR



A webinar was organized on "ENVIRONMENT & SOCIAL RESPONSIBILITIES" as a part of the ongoing co-curricular activities. 231 plus members has registerd and participated in this event.

We have to respect the environment, making rational use of natural resources and taking steps to prevent pollution from the different processes involved in our industrial operations. Also we have made a commintment to promote, through on-the-job training, the involvement of all our employees, individually and on a group basis, in environmental protection matters.





We are thankful to the subject expert SHRI V. R. MANIAR for conducting the webinar and share their expertise with the students, their parents, the faculty members and entrepreneurs.

TITLE: ENVIRONMENT & SOCIAL RESPONSIBILITIES

DATE: 19/06/2021 TIME: 11:00 AM

SPEAKERS: Shri V.R.Maniar

CONVENER: Shri H.V. Mandalia & Dr.

V.S.Tejwani

COORDINATORS: Smt. H.C.Maradia & Shri

S.P.Kotak

PATRON: SHRI. A. K. ZALA, PRINCIPAL

ORGANIZED BY: GOVERNMENT

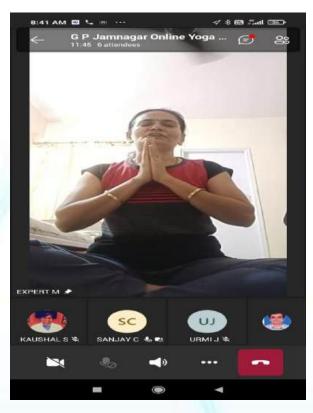
POLYTECHNIC, JAMNAGAR

**PLATFORM: MS TEAMS** 

# YOGA DAY CELEBRATION 2021

"Meditation brings wisdom; lack of meditation leaves ignorance. Know well what leads you forward and what holds you back and choose the path that leads to wisdom." — Buddha

All the students benefited from the activity and gave an overwhelming response.









We are thankful to the subject expert for conducting the webinar and sharing her expertise with the students.

**TITLE: YOGA DAY CELEBRATION 2021** 

DATE: 20/06/2021 and 21/06/2021

TIME: 8:30 AM to 9:30 AM

**CONDUCTED BY: MS.SHITAL GHELANI** 

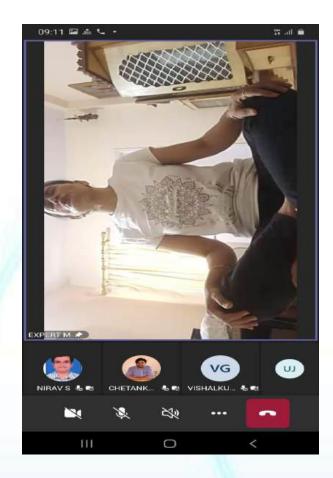
PATRON: SHRI. A. K. ZALA, PRINCIPAL

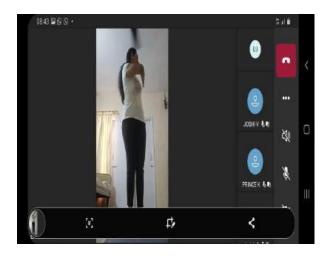
**COORDINATOR:** 

ORGANIZED BY: GOVERNMENT

**POLYTECHNIC, JAMNAGAR** 

LINK: https://bit.ly/3fSFdg7





### **WORKSHOP**

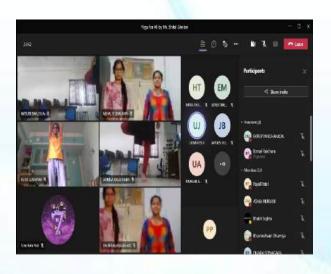
A 3 Days Workshop was organized on "YOGA: A Key to Healthy Life" as a part of the ongoing co-curricular activities. The workshop was organized for female students and faculties at the institute level. The 3 days workshop was organised on 23<sup>rd</sup> June 2021, 24<sup>th</sup> June 2021 and 25<sup>th</sup> June 2021. 20 Plus students has participated in this workshop from Computer Engineering Department.

#### > Sechedule was as follows:

- Day one Yoga for All by Ms. Shital Ghelani
- Day two Strengthen your core muscles by Ms. Shital Ghelani
- Day three Yoga for Women by Dr.
   Charu Sharma

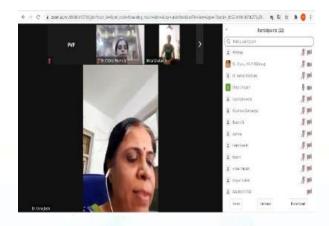
We are thankful to the subject experts for conducting the online workshop and share their expertise with the students and faculties.

#### > Some glimpse of the workshop:





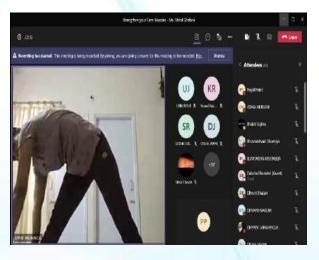














Another webinar was organized in our college on the subject of "AWARENESS OF DIPLOMA ADMISSION - 2021".





### CONDUCTED BY:

SHRI S. N. VEGAD, NODAL OFFICER, ACPDC GOVERNMENT POLYTECHNIC, JAMNAGAR

SHRI R. J. DATTANI, OFFICER, ACPDC GOVERNMENT POLYTECHNIC, JAMNAGAR

PATRON: SHRI. A. K. ZALA, PRINCIPAL

**DR. V. S. TEJWANI** 

ORGANIZED BY: GOVERNMENT

**PLATFORM: MS TEAMS** 

POLYTECHNIC, JAMNAGAR

TITLE:AWARENESS OF DIPLOMA ADMISSION - 2021

DATE: 12/07/2021

**TIME: 4:00 PM** 

# TREE PLANTATION ACTIVITY

Trees greatly contribute to their environment by providing oxygen, supporting wildlife, improving air quality, conserving water, preserving soil and climate amelioration.

Tree plantation activity was performed at Government Polytechnic, Jamnagar on 16/7/2021.

#### > Some glimpse of tree plantation:







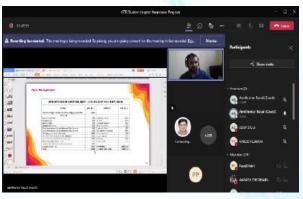


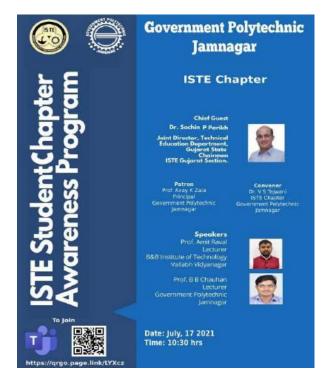
A student chapter of Indian Society of Technical Education (ISTE) has been started at Government Polytechnic, Jamnagar for the holistic development of students.

- (1) How this chapter works
- (2) What is the benefit to the students?
- (3) How to become a member and
- (4) How its appointees are appointed.

A webinar was organized to make the students aware of all the information on this subject. In this webinar 47 plus students has participated from Computer Department.









TITLE: ISTE STUDENT CHAPTER AWARENESS PROGRAM

DATE: 17/07/2021 TIME: 10:30 AM

CHIEF GUEST: SHRI. DR. SACHIN P. PARIKH

JOINT DIRECTOR, TECHNICAL EDUCATION DEPARTMENT, GUJARAT STATE

**CHAIRMEN ISTE GUJARAT SECTION** 

#### **SPEAKERS:**

PROF. AMIT RAVAL,

LECTURER, B&B INSTITUTE OF TECHNOLOGY VALLABH VIDYANAGAR

PROF. B.B. CHAUHAN,

LECTURER, GOVERNMENT POLYTECHNIC, JAMNAGAR

PATRON: SHRI. A. K. ZALA, PRINCIPAL

**CONVENER: SHRI. V. S. TEJWANI,** 

ISTE CHAPTER, GOVERNMENT POLYTECHNIC, JAMNAGAR

ORGANIZED BY: GOVERNMENT POLYTECHNIC, JAMNAGAR

LINK: https://qrgo.page.link/LYXcz



We are thankful to the subject experts for conducting the webinar and share their expertise with us.

# **QUIZ COMPETITION**

An online Quiz Competition was organized in our college Government Polytechnic, Jamnagar. The competition was organized at Institute Level.

In this quiz competition Jadeja Dharamrajsinh got the 1<sup>st</sup> Prize. He is from Semester 2, Computer Department. Congratulations to Jadeja Dharamrajsinh for your achivement! We also congratulates other two winners Joshi Devanshi, Semester 2, Civil Department for the 2<sup>nd</sup> Prize winner and Kanzariya Rupit, Semester 2, Mechanical Department for the 3<sup>rd</sup> Prize winner.





**TITLE: QUIZ COMPETITION** 

DATE: 17/07/2021

TIME: 12:30 PM to 1:00 PM

**ORGANIZED & SPONSERED BY:** 

SHRI. A. V. NAKUM

SHRI. M. D. NARANIYA

PATRON: SHRI. A. K. ZALA, PRINCIPAL

# GURU PURNIMA CELEBRATION

Guru or teacher has always been considered akin to a God in the Hindu culture. Guru Purnima or Vyasa Purnima is the day to celebrate and pay our gratitude to our Gurus.

Guru Purnima Day was celebrated in our college Government Polytechnic, Jamnagar. A Webinar was organized on Date 23/7/2021. Around 180 plus students has participated in this event.

#### Some glimpse of Guru Purnima:











**TITLE: GURU PURNIMA CELEBRATION** 

DATE: 23/07/2021 TIME: 4:00 PM

PATRON: SHRI. A. K. ZALA, PRINCIPAL

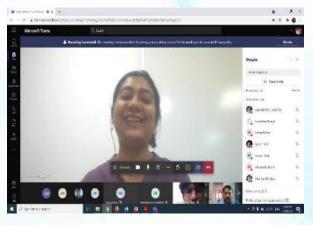
ORGANIZED BY: GOVERNMENT

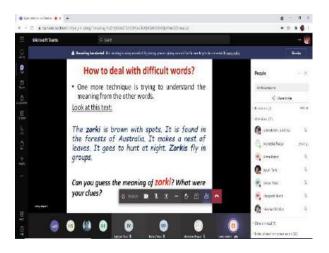
**POLYTECHNIC, JAMNAGAR** 

The importance of reading in the domain of education has always been of very high significance and in the modern technical education domain, reading and other linguistic skills are of utmost importance for the learners and professionals alike.

A webinar was organized on "READING SKILLS" as a part of the ongoing co-curricular activities conducted in every semester. 60 students had participated in this webinar from 2<sup>nd</sup> Semester Computer Department. This webinar aims to inculcate into students the required reading skills which can be leveraged by them in their academic as well as professional careers.







We are thankful to the subject expert Ms. Umangi Shah for conducting the online webinar and sharing her expertise with the students.

**TITLE: READING SKILLS** 

DATE: 24/07/2021 TIME: 04:30 PM

EXPERT: MS. UMANGI SHAH, English Language Trainer @ TGES and Finishing School Trainer @ KCG, Gujarat

PATRON: SHRI. A. K. ZALA, PRINCIPAL

**CO-ORDINATOR: SHRI. KAUSHAL M. SHAH** 

ORGANIZED BY: COMPUTER DEPARTMENT, GOVERNMENT POLYTECHNIC, JAMNAGAR

WEBINAR LINK: https://bit.ly/3wXti5J

A webinar was organized on "NETWORK SECURITY" in order to make the students aware of the latest trends in the computer engineering field as a part of the ongoing co-curricular activities conducted in every semester. 24 students had participated in this webinar from 5<sup>th</sup> Semester Computer Department.

The content of the webinar as follows:

- 1. What Is Network Security?
- 2. What Are The Benefits of Network Security?
- 3. Demonstrations of 3 network security tools.

The presentation covered the latest trends in the above-mentioned subject in the field of computer engineering which provided students with highly required skills and knowledge for the advancement of their career. All the students benefited from the activity and gave an overwhelming response.







**TITLE: NETWORK SECURITY** 

DATE: 24/07/2021 TIME: 04:00 PM

**EXPERT: Mr. RUSHI J. TRIVEDI** 

ASSISTANT PROFESSOR, COMPUTER DEPARTMENT, GEC RAJKOT.

PATRON: SHRI. A. K. ZALA, PRINCIPAL

CO-ORDINATOR: Mr. CHETAN C. KAMANI

ORGANIZED BY: COMPUTER DEPARTMENT, GOVERNMENT POLYTECHNIC, JAMNAGAR

# **VISION AND MISSION**

For the purpose of getting detailed understanding of NBA and for the importance of vision and mission, a webinar has been organized on "Vision and Mission" at the Institute Level. This webinar was organised on 5<sup>th</sup> July 2021.

Statements of both vision (vision) and mission (duty) play an important role in the development of the organization. The mission statement provides clear and effective guidance to the organization for making decisions, while the visionary statement ensures that all decisions made are properly aligned with the hope that the organization will receive.

We have created the vision and mission of the organization together. An online webinar was organized to give a fair recognition and understanding to the new staff at the institute.

#### Here are some glimpse of this webinar:



We are thankful to the Principal Shri. A. K. Zala for guiding us regarding the vision and vision.



**INSTITUTE VISION:** To be an elite institute by creating technocrats who will contribute towards the betterment of the society.

#### **INSTITUTE MISSION:**

- ✓ To be a student-centric institute, imparting fundamental, experimental and innovative skills, addressing societal problems for creating socially responsible citizens.
- ✓ To strengthen linkage with employers, industries, alumni and other stakeholders for the betterment of the institute.
- ✓ To promote co-curricular and extracurricular activities for overall personality development of the students.

TITLE: VISION AND MISSION

DATE: 05/07/2021 TIME: 5:00 PM

PATRON: SHRI. A. K. ZALA, PRINCIPAL

**CONDUCTED BY: DR. K. RAICHURA** 

ORGANIZED BY: GOVERNMENT

POLYTECHNIC, JAMNAGAR

# **5G**

Internet is becoming an essential part of our life. Internet connects us to the world at our ease at home. Nowadays most of the day-to-day tasks can be accomplished using the internet. But as technology grows there is a need for high-speed data transfer which can be used for many different purposes. To fulfill this requirement, many steps are taken to improve the speed of the internet.



5G is the fifth-generation technology standard for broadband cellular networks. 5G is the next successor of the 4G. The primary requirement of 5G is to hold the increasing demand for devices that interests internet access. 5G is faster and more reliable than 4G. Hence it increases the price for its services.

#### Working:

5G is getting boast in popularity in recent times becomes of the speed and more stable connection. 5G uses higher frequencies around 30 GHz or more. The use of high frequency makes them support a huge capacity for fast data. 5G uses shorter wavelengths, which means antennas can be

much smaller than existing antennas while still providing precise directional control. 5G can support over 1,000 more devices per meter than what's supported by 4G.



In 5G Wireless Technology there are 2 main components:

- Radio Access Network
- Core Network

#### **Radio Access Network:**

In Radio Access Network mainly contains 5G Small cells, Macro cells and the system that connect the mobile device to the Core Network. The 5G Small Cells are present in mass. Small Cell uses millimeter wave spectrum that cannot propagate to large distances. Macro Cells covers more ground. Macro Cells use antennas. Antennas can have multiple connection to send and receive huge sum of data.

#### **Core Network:**

Management of all the data and internet connection is done by Core Network. Core Network merges with the internet efficiently and one of the known feature is Network Slicing.

#### Advantages of 5G:

- Increased data transfer speed
- More effective and efficient
- Low Latency
- Increased bandwidth
- Improved capacity

#### **Latest News About 5G:**

- Orange to launch Europe's first 5G SA endto-end cloud network, in Lannion, France, in July.
- Indosat Ooredoo launches its first 5G service in Solo, Central Java, Indonesia.
- In-flight broadband internet provider Gogo installs its first two 5G antennas, leading the way for prototype testing of system performance.
- Etisalat and Ericsson partner to launch 5G mmWave in the UAE.
- Rogers 5G reaches Nova Scotia and New Brunswick, making it available for 50% of the Canadian population.
- India's Reliance Jio switches on its 5G field trial network ahead of the full launch later this year.
- Omantel and Ericsson successfully test 5G mmWave in Oman.

- Telenor launches commercial 5G services in Bulgaria; currently available in more than 60 locations.
- UK's EE turns on 5G in 9 coastal towns and cities.
- Verizon's 5G Home Internet is set to expand to seven more cities.

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# **EDITOR**

It is my privilege and honor as the Editor-in-chief for the newsletter of Computer Department at Government Polytechnic, Jamnagar.

The main agenda of the newsletter is to provide insights of department like academics and other activities happening at department. Some knowledge regarding current technology etc.

- Ms. PAYAL V. PATEL