



NEWS LETTER : 2021-22



**ACET**

# E Spark

Department of  
Electrical  
Engineering

ISSUE - 11

ANJUMAN COLLEGE OF ENGINEERING & TECHNOLOGY

## FROM HOD'S DESK



**Dr. Archana Shirbhate**  
HEAD OF DEPARTMENT

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Welcome to the Department of Electrical Engineering, A.C.E.T Nagpur! We, the Department of Electrical Engineering, feel our eagerness to publish the 12th issue of our departmental newsletter, "E-Spark 22." I, as a head of the department would like to thank all the faculty members, non-teaching staffs and students for their limitless support and sincere efforts for the betterment and development of department. On this occasion, I congratulate the editorial board for bringing up this issue in a better shape.

The department regularly organizes various professional development activities and grooms its students with the communication classes and personality development program. Sports, co curricular and extracurricular activities takes place at institute level and students participate in various intra-college, inter-college, inter-university fests / competitions. Our students have their own music band group and won many prizes in different competitions.

Department constantly works for overall growth of students and inculcate the qualities/features that are required and acceptable by Society. Faculty/students take initiative for social causes at individual level and as a team under different banners/clubs of the Institute. Turning a student in to a good and proficient citizen is the prime aim of the department.

### Message from EDITOR



**Dr. Ruhi Uzma Sheikh**  
Assistant Professor

It is indeed a great honor to be the Newsletter Editor and it is an immense pleasure to launch this twelfth edition of E-Spark 22. It would be a shot of the different activities and advancements for all associated with Electrical Engineering Department. It also include technical articles related to developing technology in engineering field .Proper communication plays a vital role in institution's development. A huge thank you to all the persons who contributed writing the wonderful and inspiring articles, without which there wouldn't have been this newsletter issue.

I would like to record my gratitude to Dr. S. M Ali Principal ACET, Dr. Archana Shirbhate HOD, coordinators of the department, staff and students for putting their heads together to make this publication a reality. May God Bless all your efforts!

# Students' Achievements

# Congratulations

## 3<sup>rd</sup> Semester Topper's Winter-2021 Examination



**9<sup>th</sup> University Rank**  
85 % SGPA 9.25

**1<sup>st</sup> Topper**

SHRUTI MANISH SAKHARE



**18<sup>th</sup> University Rank**  
81.3 % SGPA 8.88

**2<sup>nd</sup> Topper**

KIRAN ISHWAR DAMHARE



**23<sup>rd</sup> University Rank**  
79.9% SGPA 8.67

**3<sup>rd</sup> Topper**

HADIYA AARIF BEG



**25<sup>th</sup> University Rank**  
78.3 % SGPA 8.58

**4<sup>th</sup> Topper**

PRAVIN GAJANAN RANGARI

## 4<sup>th</sup> Semester Topper's Summer-2022 Examination



**1<sup>st</sup> Topper**  
89.6 % SGPA 9.71

SHRUTI MANISH SAKHARE



**2<sup>nd</sup> Topper**  
85% SGPA 9.25

SHALINI VILAS DHAWALE



**3<sup>rd</sup> Topper**  
81.3 % SGPA 8.88

KIRAN ISHWAR DAMHARE



**4<sup>th</sup> Topper**  
78.3 % SGPA 8.58

KHUSHI AMHENDRA GHODESWAR

## 5<sup>th</sup> Semester Topper's Winter-2021 Examination



**5<sup>th</sup> University Rank**  
86.6 % SGPA 9.41

**1<sup>st</sup> Topper**

MAHAJAN LEEN BOJRAJ



**7<sup>th</sup> University Rank**  
85.3 % SGPA 9.28

**2<sup>nd</sup> Topper**

SHASWAT MANSRANJAN DAS



**11<sup>th</sup> University Rank**  
83.6% SGPA 9.1

**3<sup>rd</sup> Topper**

SONDHIYA NAMAN SHAILESH



**16<sup>th</sup> University Rank**  
81.8 % SGPA 8.93

**4<sup>th</sup> Topper**

SOJYOT SUNIL JIBHE

## 6<sup>th</sup> Semester Topper's Summer-2022 Examination



**2<sup>nd</sup> University Rank**  
91.80 % SGPA 9.93

**1<sup>st</sup> Topper**

SHASWAT MANSRANJAN DAS



**3<sup>rd</sup> University Rank**  
90.90% SGPA 91.50

**2<sup>nd</sup> Topper**

TATTE TUSHAAR DHANANJAY



**8<sup>th</sup> University Rank**  
89.70 % SGPA 9.72

**3<sup>rd</sup> Topper**

MAHAJAN LEEN BOJRAJ



**10<sup>th</sup> University Rank**  
89.10 % SGPA 9.66

**4<sup>th</sup> Topper**

ATHARVA RAMESHWAR WARKE

## 7<sup>th</sup> Semester Topper's Winter-2021 Examination



**1<sup>st</sup> University Rank**  
81.2 % SGPA 8.87

**1<sup>st</sup> Topper**

ASAWARI GUNDURAO JUMNAE



**2<sup>nd</sup> University Rank**  
77.5 % SGPA 8.5

**2<sup>nd</sup> Topper**

INGALE NIKITA RAJU



**3<sup>rd</sup> University Rank**  
76.8% SGPA 8.43

**3<sup>rd</sup> Topper**

M PATHAN QWAIS MEHBOOB



**4<sup>th</sup> University Rank**  
76.2 % SGPA 8.37

**4<sup>th</sup> Topper**

MAHESHRAM DHANASHREE DINESH



**4<sup>th</sup> University Rank**  
76.2 % SGPA 8.37

**4<sup>th</sup> Topper**

SHAHU SHIVAM VIJAY

## 8<sup>th</sup> Semester Topper's Summer-2022 Examination



**1<sup>st</sup> Topper**  
89. % SGPA 9.65

KRUTIKA BAGADE



**2<sup>nd</sup> Topper**  
88.3% SGPA 9.58

M PATHAN QWAIS MEHBOOB



**3<sup>rd</sup> Topper**  
86.7% SGPA 9.42

TUSHAR GANVIR



**4<sup>th</sup> Topper**  
76.2 % SGPA 8.37

GAGAN DAWANDE

# Faculty Publications (Electrical Engineering)

Title of Paper	Name of The Author/s	Name of Journal	Year of Publication	ISSN Number
Advanced Driver Assisted Security System For Vehicles	Pramod Gadge	The International Journal of Analytical and Experimental Modal Analysis	Apr-22	0886-9367
Mag-lev Wind Power Hybrid for Irrigation System	Pramod Gadge	The International Journal of Analytical and Experimental Modal Analysis	Mar-22	0886-9367
Design Of Energy Consumption Information System Using GSM & Adafruit Application	Dr. Ruhi Uzma Sheikh	The International Journal of Analytical and Experimental Modal Analysis	May-22	0886-9367
Development of Monitoring System For Car Parking	Dr. Ruhi Uzma Sheikh	Journal of Engineering Sciences	Apr-22	0377-9254
Development of Monitoring System for Car Parking	Ishraque Ahmad	Journal Of Engineering Sciences	Apr-22	0377-9254
Mag-lev Wind Power Hybrid for Irrigation System	Nahid Khan	The International Journal of Analytical and Experimental Modal Analysis	Mar-22	0886-9367
Solar Based Forest Fire Detection Using Zigbee	Nawaz Sheikh	The International Journal of Analytical and Experimental Modal Analysis	March 2022	0886-9367
Solar Based Agriculture Robot	Akil Ahmed	The International Journal of Analytical and Experimental Modal Analysis	May 2022	0886-9367
Electricity Generation by Using Waste Heat	Akil Ahmed	International Journal of Scientific Research & Engineering Trends	Mar-apr 2022	
An Active System For Vehicle Accident Detection And Tracking	Dr. Sayyad Naimuddin	International Journal of Scientific Research in Science and Technology	May-june 20222	2395-602x
Vehicle Theft Detection and Tracking System	Dr. Sayyad Naimuddin	Dickensian Journal	May 2022	0012-2440
An Active System For Vehicle Accident Detection and Tracking	Mohammad Safique	International Journal Of Scientific Research in Science and Technology	May-june 20222	2395-602x
Vehicle Theft Detection and Tracking System	Mohammad Safique	Dickensian Journal	May 2022	0012-2440
Power Generation from Vehicle Silencer	Dr. Archana Shirbhate	The International Journal of Analytical and Experimental Modal Analysis	May 2022	0886-9367
Electricity Generation Through Agricultural Waste	Dr. Archana Shirbhate	The International Journal of Analytical and Experimental Modal Analysis	Mar 2022	0886-9367
Design and Implementation of Effective Face Recognition System for the Smooth Working of Campus	Dr. Sayyad Naimuddin	Dickensian Journal	May - 2022	0012-2440

# PUBLICATIONS





# ON CAMPUS Placement

Details of Placement 2021-2022

Total Companies visited : 73  
Total Candidates placed :47

To place in reputed company, it's a dream of every newborn Engineer, but it comes true when it really happens. Today student got this opportunity because of their academic record, guidance of teachers and Training provided by college. This is the list of student placed in reputed industry during 2021-2022

Sr. No.	No. of Students Placed	Name of the Employer	Name of the Students	Package Received (Lacs/annum)
1 2 3	3	TCS	Rishika Bodele Asawari Jumnake Roshan Bachale	3.36
4	1	Hexaware	Pallavi Chikhale	3.50
5 6 7 8 9	5	Wipro	Arish Khan AyushBarmate Arya Ingale Sarhak Wankhede Owais Pathan	3.60
10	1	Betsol	Sahil Sheikh	5.50
11	1	Perficient	Sahil Shaikh	3.16
12 13	2	Cappgemini	Pallavi Chikhale Owais Pathan	4.00
14 15	2	Infosys	Suvarna Lichade Pallavi Chikhale	3.60
16 17 18	3	SGS Tech Services	Aftab A Ansar Zeba Saiyed Danish Sheikh	2.63
19	1	Birlasoft	Owais Pathan	4.00
20	1	Unthinkable Solutions	Owais Pathan	5.00
21 22 23 24 25 26	3	Skolar	Zeba Saiyed Saima Sheikh Santushti Sukhdeve Pratiksha Bhoyar Chetana Bhange Payal Thakre	3.24
27	1	Accenture	Rishika Lanjewar	
28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48	21	Dhoot Transmissions	Arya Ingale Sayalee A Jangam Suvarna Lochade Dhanashree Meshram Pratiksha M Bhoyar Chetana S Bhange Aditya Lakkewar Gagan R Dawande Roshan Bachale Aliya Bano Ali Apeksha A Janbandhu Pratiksha Ramteke Vaishnavi Kshirsagar Tejas Darwade Tushar Ganvir Prasad Rahate Manish A Bhoyar Md Zahid Akhtar Rohit Chaturvedi Himanshu Atkare Sayed Zahid Ali	1.50
49 50 51	3	Vowel Web	Manish Bhoyar Samiksha Bagde Tushar Ganvir	2.40
52 53	2	Quality Kiosk	Numan Sheikh Krutika Bagde	2.75

# Parent-Teachers Meet

We organize PTM, where the teachers and parents discuss the student's progress at college and find solutions to academic or behavioral problems. The main objective of a Parent-Teacher Meeting is to give an opportunity for parents and teachers to openly discuss what is happening at college and at home.



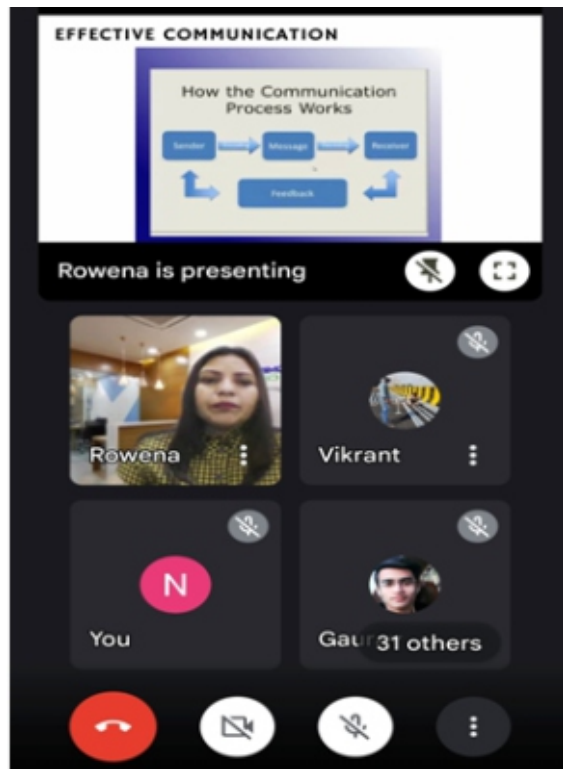
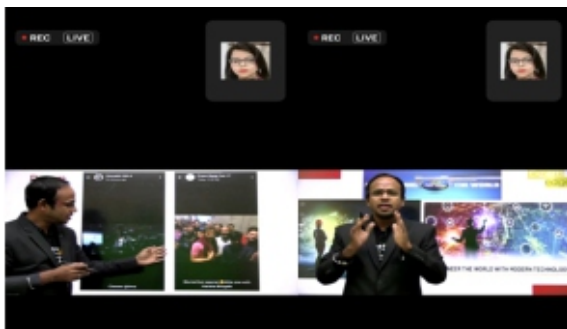
## Guest Lectures

## 2021-22

Sr.no.	Name of the Topic	Name of Experts	Date	No of Participants
1	ROBOTICS & AUTOMATION IN ELECTRICAL	Mr.ANIL TATODE ,TRAINING OFFICER,Dept OF ROBOTICS AND CLOUD TECHNOLOGY,RTMNU, Mob: 7030378672	18-11-2021	51
2	HOW TO PREPARE FOR COMPETITIVE EXAMS	Mr.Abilash Warhade,AEON IAS ACADEMY,Nagpur ,Mob:9067477689	23-11-2021	47
3	B.E APTIMISTIC	Mr.Deepankar Banik, Lect.ExVNIT, Mathematics,ExpertEdge, Mob:7385379601. www.expertsedge.co.in	29-01-2022	124
4	BIM(ELCTRICAL ) & CAREER	Mr.AHEMAD ASIF IQBAL Admire Tech Vision, Nagpur Mobile: 9975408642	02-03-2022	82
5	SHATTERING THE MYTH OF THE CAT	Mr.NITIN RATHOD Director of Expert Edge, Nagpur Mobile: 7385379601 www.expertsedge.co.in	02-05-2022	172
6	BASIC CONCEPT OF SOLAR POWER PLANT INSTALLATION,GOVERNMENT POLICIES AND OPPORTUNITY AS SELF EMPLOYMENT	Mr.KULDEEP.D.BAHADURE, DEPUTY EXECUTIVE ENGINEER,CSTPS,MAHAGENCO, Mob: 9422137067	02-05-2022	137
7	CAREER IN MEP	Mr.SHOYEB SHEIKH, Director Design & Draft Engineering Institute,Nagpur,Mobile: 7972634318, www.dndengineers.com	02-10-2022	50
8	GATE PREPARATION	Mr.SACHIN MANKAWADE, Engineers Academy,Nagpur Mobile:8208062520,www.engineersacademy.org	22/03/2022	45



# Webinar



**ANJUMAN COLLEGE OF ENGINEERING & TECHNOLOGY, SADAR, NAGPUR**

**DEPARTMENT OF ELECTRICAL ENGINEERING**  
**IN ASSOCIATION WITH**  
**DEPARTMENT OF ROBOTICS & CLOUD TECHNOLOGY, RTMNU**

**ORGANIZES**  
**A WEBINAR ON**  
**ROBOTICS & AUTOMATION**  
**IN ELECTRICAL ENGINEERING**

**Resource Person**  
**Mr. Anil Totode**  
 Training officer  
 Dept. of Robotics & Cloud, RTMNU

**REGISTER ONLINE OR SCAN CODE FOR REGISTRATION**  
<https://bit.ly/3mN0d8j>

**GOOGLE MEET** A LINK WILL BE SENT TO YOUR EMAIL TO JOIN THE GOOGLE MEETING

**18, November 2021**  
**3:00 PM - 5:00 PM**

**WEBINAR AGENDA**  
 The Latest trend of Industrial Robotics  
 Types of Industrial Robots  
 Application of Industrial Robots  
 Benefits of Superior Motion Control  
 User Segments and Robot Manufacturer  
 Worldwide statistics of Robot Trading  
 Career opportunity for Engineers  
 How to prepare for Robot Engineering  
 Many more.....

Prof. Dr. S.M. Ali  
Principal, ACET, Nagpur

Prof. Dr. Archana Shirbhate  
Head, Dept. of EE, ACET, Nagpur

Dr. Ruh Uzma Sheikh  
Program Coordinator, ACET, Nagpur

**ELECTRICAL ENGINEERING DEPARTMENT**  
**ANJUMAN COLLEGE OF ENGINEERING AND TECHNOLOGY**

**NAGPUR**  
 In Association with  
**DESIGN & DRAFT ENGINEERING INSTITUTE**

**Organizing Webinar**  
**Career in MEP System**

**Organized By**  
 Prof. Dr. Syed Mohammad Ali  
Principal, ACET

Prof. Dr. Archana Shirbhate  
H.O.D., EE, ACET

Prof. Mrs. Najma Siddiqui  
Co-ordinator, EE Department

**DATE:- 10/02/2022**

**ONLY ON zoom**

**TIME:- 3:00PM TO 4:00PM**

**Register Now at Below Mentioned Link**  
<https://form.hypeform.com/to/MpZze5nk>  
 For More Info :-+91-7972634318, +91-7972688409  
[www.dndengineers.com](http://www.dndengineers.com)  
**SADAR | NANDANVAN**

**ANJUMAN**  
**COLLEGE OF ENGINEERING & TECHNOLOGY**  
**SADAR, NAGPUR, MAHARASHTRA - 440001**  
**WEBSITE : www.anjumanengg.edu.in**

**Department of Electrical Engineering**  
**Presents**  
**Webinar On**  
**"Importance of Aptitude for Placements"**

**Mr. Rishi Chourasia**  
**(Founder Director) Vikalp Education**  
**MMS (Finance) Diploma MDA (JBIMS)**  
**15+ Years Experience**

**3rd February, 2021**  
**11:00 - 12:30 PM**

**Dr. Archana Shirbhate**  
HOD, Electrical Engg. ACET

**Dr. Syed Mohammad Ali**  
Principal, ACET

**Prof. Yasmeen Sayeed**  
Event Coordinator, ACET

**Prof. Mrs. Nahid Khan**  
Event Coordinator, ACET

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 for your dreams

**ANJUMAN**  
**COLLEGE OF ENGINEERING & TECHNOLOGY**  
**SADAR, NAGPUR, MAHARASHTRA - 440001**  
**Organized by**  
 Department of Electrical Engineering

**WEBINAR ON**  
**B.E. APTIMISTIC**

January 29th, 2022 • 11 AM - 12:30 PM

**Mr. Deepankar Banik Sir**  
 Lect. Ex VNIT || 15 Years Exp.  
 Mathematics

**Register Now**  
<https://forms.gle/boAYY7qzZ2F6XW5>

Prof. Dr. Syed Mohammad Ali  
Principal, ACET

Prof. Dr. Archana Shirbhate  
HOD, EE, ACET

Prof. Mrs. Nahid Khan  
Coordinator  
EE Department

**Anjuman College Of Engineering And Technology**

in Association with

**Admire Tech Vision LLP Nagpur**

Present Seminar on

**BIM (Electrical) & Career**

Prof. Dr. Syed Mohammad Ali  
Principal, ACET

Dr. Archana Shirbhate  
HOD - Electrical

Prof. Yasmeen Sayeed  
Coordinator, EE Dept.

Prof. Mrs. Nahid Khan  
coordinator, EE Dept.

When  
Date : 03-02-22, Thursday  
Time : 11:00 am Onwards  
Mode : Online on Google Meet

Coordinator:  
Mr. Sarang Pimpalkar  
+91 9518385619  
Sarang.p@admiretechvision.com

Special Speaker: Mr. Ahemad Asif Iqbal  
SENIOR FACULTY ADMIRE TECH VISION

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**ANJUMAN** COLLEGE OF ENGINEERING & TECHNOLOGY  
SADAR, NAGPUR, MAHARASHTRA - 440001

In Association with ExpertsEdge

Organized by  
Department of Electrical Engineering

Webinar on

**Shattering the Myths of CAT**

5 February  
3pm - 4 pm

**Mr. Nitin Rathod Sir**  
Top Educator at Unacademy  
Expert Aptitude Trainer  
Director of ExpertsEdge

Prof. Dr. Syed Mohammad Ali  
Principal, ACET

Prof. Dr. Archana Shirbhate  
HOD, EE, ACET

Prof. Mrs. Nahid Khan  
Co-ordinator, EE Department

Prof. Mrs. Yasmeen Sayeed  
Coordinator, EE Department

**ANJUMAN**  
COLLEGE OF ENGINEERING  
AND TECHNOLOGY

Webinar on

"BASIC CONCEPT OF SOLAR POWER  
PLANT INSTALLATION,  
GOVERNMENT POLICIES AND  
OPPORTUNITIES AS SELF EMPLOYMENT"

Organized by  
Department of  
Electrical Engineering

Date: 05th February, 2022  
Time: 12.00pm to 1.30pm

Resource person  
**Mr. Kuldeep Bahadure**  
Deputy Executive Engineer,  
CSTPS, MAHAGENCO

Registration Link  
<https://forms.gle/Pnj3asomqRnJTaWm8>

Prof. Akil Aheamd  
Asst. Prof. Electrical Deptt.

Prof. Dr. Archana Shirbhate  
Head of Electrical Engg. Deptt.

Prof. Dr. S. M. Ali  
Principal, ACET

**ANJUMAN**  
COLLEGE OF ENGINEERING  
AND TECHNOLOGY  
Mangalwari Bazar Road, Sadar, Nagpur

Group Discussion:  
**Opportunity to Excel**

Webinar

02-00pm | Onwards  
Monday, 25 April 2022

Speaker  
Dr. C. K. Awar  
HOD Automobile Engg.  
Dept. of Mechanical Engg.

Organized by  
Dept. of Electrical Engineering

REGISTER NOW  
<https://forms.gle/QxifW9EuDHeLadRr6>

google meet link  
<https://meet.google.com/rzb-dhet-cjx>

Dr. S. M. Ali  
Principal, ACET

Dr. Archana Shirbhate  
HOD, EE, ACET

Prof. Nahid Khan  
Coordinator, EE Department

Prof. Ishraque Ahmed  
Co-ordinator, EE Department

Anjuman College of Engineering and Technology  
IN ASSOCIATION WITH  
**AEON IAS ACADEMY**

**How to prepare for Competitive Exams**

Open Webinar

Speaker: Abhilash Warhade Sir

ZOOM MEETING CREDENTIALS  
MEETING ID: 2078741952  
PASSWORD: AEONIAS22

AEON IAS ACADEMY  
Block no. 27, 1st Floor, Rajkamal  
Complex, Panchsheel Talkies  
Square, Sitabuldi, Nagpur-12

Tuesday | November 23 @ 2:00 PM

For any Queries, Contact us @  
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www.aeonias.com

**ANJUMAN COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Mngalwari Bazar Road, Sadar, Nagpur.

Seminar

Effective Communication skills and Art of Presentation for success in interview

DATE : 20 MAY, 2022 11: 00am to 12:30pm

Speaker  
**Rowena Philipps**

Organized by  
Electrical Engineering Department

Dr. S.M. Ali  
Principal, ACET

Dr. Archana Shirbhate  
Head Of Electrical Engg Dept.

Prof. Nahid Khan  
Coordinator, EE Dept.

Prof. Ishraque Ahmed  
Co-Coordinator, EE Dept.





## How **Artificial Intelligence (AI)** Applications are Involved in Different sectors?

There has been an exponential increase in AI development over the last decade. From self-driving cars and voice activated assistants to virtual reality, artificial intelligence has permeated every aspect of our lives.

The term Artificial Intelligence was coined in 1956, though it wasn't until the 1960s that computers were able to execute some of the rudimentary tasks. By the 1980s, however, AI had become much more sophisticated. Today, companies are investing heavily in AI technologies, believing they'll revolutionize their businesses.

Artificial intelligence is human intelligence processes by machines, especially computer systems that pretend to work like a human. Artificial Intelligence is a kind of technology designed to make calculated decisions. Specific applications of Artificial intelligence (AI) include expert systems, natural language processing, and speech recognition and machine vision.

In other words, you can say Artificial Intelligence is an extensive field of computer science which aims at developing intelligent machines capable of doing activities that would normally require human intelligence. According to a survey by 2025, as many as 97 million people will work in the AI space.

Artificial Intelligence has become a huge part of our lives in recent years, from helping us with everyday tasks such as finding new recipes or recommending movies, to teaching us how to speak Russian or even acting as a therapist for those who suffer depression.

AI technologies are becoming more advanced every day. The potential benefits to society from these technological advancements are immense, particularly in healthcare where they promise better diagnosis and treatment options for patients.

As Artificial Intelligence becomes more widespread, researchers will look into ways of incorporating this technology into other industries. There are already some very successful uses of AI in other areas, such as the financial sector. In addition to medicine, AI could also prove beneficial within the creative arts.

There are two broad categories of solutions developed using these techniques: adaptive automation and intelligent automation. Adaptive automation is designed to respond to changing conditions, allowing the system to adapt to unexpected events. Intelligent automation makes decisions based on historical data and presents its findings through clear interfaces.

**Yash Gonade**  
4th semester