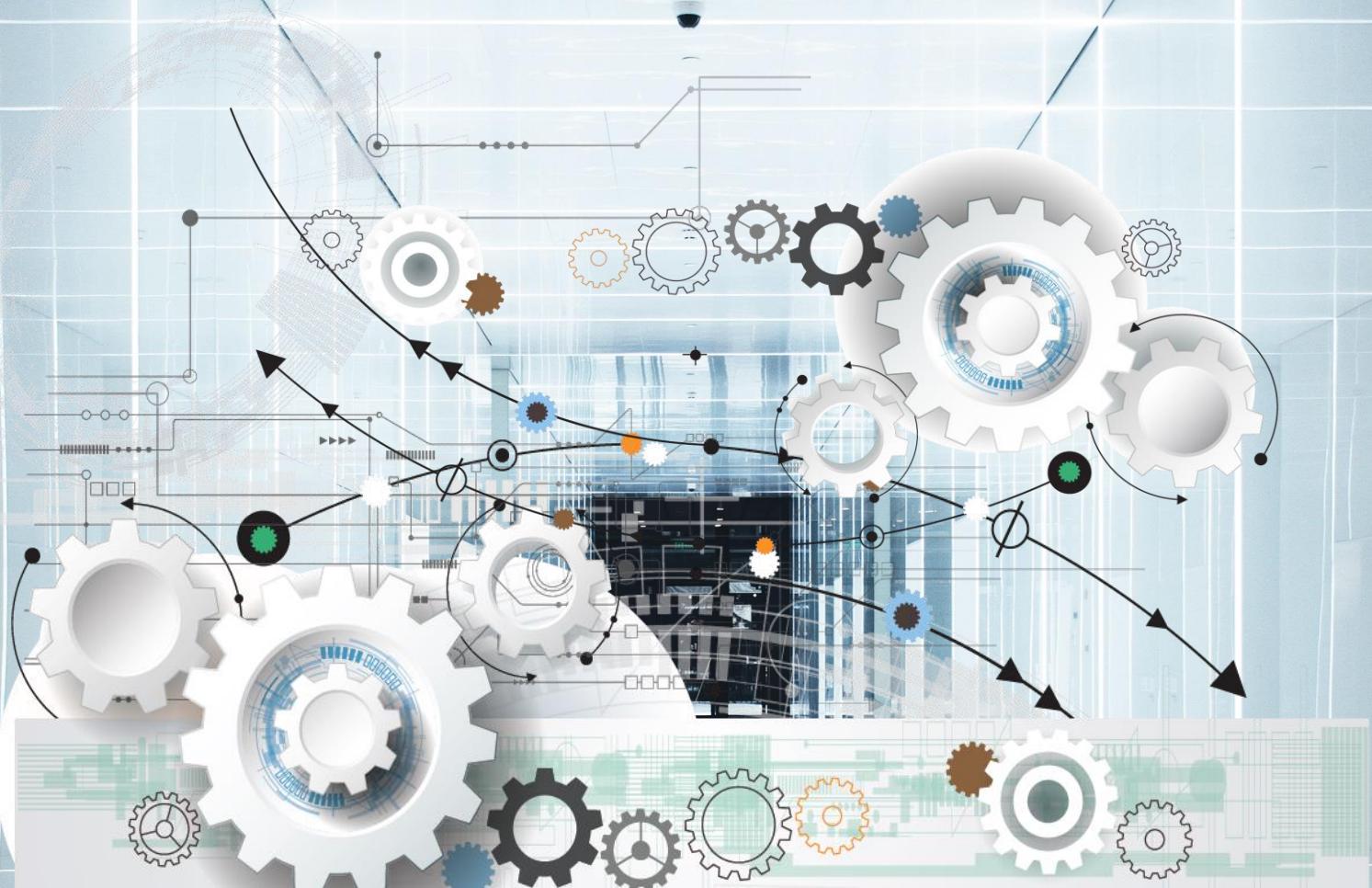




# TECH ERA

VOLUME 1,  
APRIL 2019

CE & IT DEPARTMENT  
MAGAZINE



# WELCOME

Education Policy declared by Government of India in 1986 and passing of A.I.C.T.E. Act in 1987 by both the houses of Parliament. In course of time, knowledge became the source of generating of wealth and graduates of Engineering colleges became high in demand nationally and internationally where they are known as Knowledge workers

## OUR GOALS

To cater to societal requirement of expansion of knowledge in techno managerial area and also to bridge up the gap between the industry requirement and academically qualified personal.



## OUR VISION

We grow We Learn and We deliver with the world class facility and Group of highly professional team members to contribute to the advancement of the student's bright future and achieve their goals and ambitions in life.



## OUR MISSION

Modelling a better Future of Technical world by bestows morally and technically sound professionals and organization.



# Message Desk....



Shri Shamjibhai Patel  
Hon. Chairman

Students will find everything at AIT, centralized on our Superior Policy of transmission high class teaching to students and to trail in specialized education through participation & guidance of our faculty with the eventual aim of student satisfaction. We want our students to be committed, dedicated to their goals along with unity and involvement for the surroundings and rural society they live in.



Dr. Sarada Devi Mandalapu  
Principal

We guarantee that students should increase not just technical knowledge but also a holistic set of accomplishment that will fit them to face the real world. Faculty-members guide and monitor students by participating in their domain, research, sports & cultural pursuits. We believe that students can do anything and everything if they procure right platform of opportunity. We would like to thank all the parents who have reposed trust in our organization.



Dr. Ajay N. Upadhyaya  
HOD CE & IT

We realize that we have to modify school student into a professional engineer within a period of four constructive years. Becoming knowledgeable is not limited to being in primary educational institution and then in college, assemblage documents and feeling proud of oneself. It is a lifelong effort that can be incredibly thrilling if only we wish to jump onto the train of experience and take a trip to every possible place on the globe. Our college is fully devoted to contribute prime education to its students who are the most auspicious assets of our nation.

# FACULTY DETAILS



## DR. AJAY N. UPADHYAYA

**Designation:** HOD CE & IT (Associate Professor)

**Qualification:** PhD – Computer Engineering

**Expertise:** Computer Network, Wireless Network, Ad-hoc Network, Network Security, Computer Graphics, Advance Database, Digital Electronics,

**Paper Publication:** 6 International, 7 National

**Workshop/Training conducted/ Organised –** 53

**Email :** hodce@aitindia.in

**Experience:** 12 years

**STTP/ FDP Attended- 15**



## PROF. VIPUL K PATEL

**Designation:** Assistant Professor

**Qualification:** ME(CST), BE (CE)

**Expertise:** Network, C, C++, Web Designing language

**Paper Publication:** 2 National

**Workshop/Training conducted/ Organised –** 4

**Email :** vipul.patel@aitindia.in

**Experience:** 7.6 years

**STTP/ FDP Attended- 5**



## PROF. DHAVAL A. KHATRI

**Designation:** Assistant Professor

**Qualification:** ME(CE), BE (IT)

**Experience:** 9 years

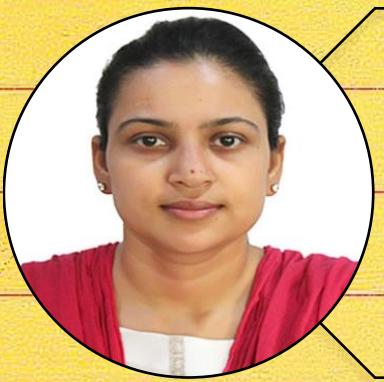
**STTP/ FDP Attended: 3**

**Expertise:** Network Security, .NET Programming, JAVA

**Paper Publication:** 2 International, 1 National

**Workshop/Training conducted/ Organised –** 6

**Email :** dhaval.khatri@aitindia.in



## PROF. MISBA S. SHAIKH

**Designation:** Assistant Professor

**Experience:** 6.8 years

**Qualification:** ME(CE), BE (CE)

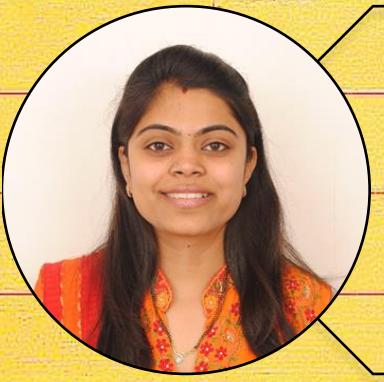
**STTP/ FDP Attended- 0**

**Expertise:** Software Engineering, Design and analysis of algorithm, Database Management system

**Paper Publication:** 1 International

**Workshop/Training conducted/ Organised –** 2

**Email :** misba.Shaikh@aitindia.in



## PROF. SWEETY S. PATEL

**Designation:** Assistant Professor

**Experience:** 7 years

**Qualification:** ME(CE), BE (IT)

**STTP/ FDP Attended- 0**

**Expertise:** Advanced java Technology, Java, C programming, C++

**Paper Publication:** 1 International, 1 National

**Workshop/Training conducted/ Organised –** 2

**Email :** sweety.patel@aitindia.in

### **PROF. BHAGYSHRI P. LACHHWANI**

**Designation:** Assistant Professor

**Experience:** 5.7 years

**Qualification:** ME(CE), BE (CE)

**STTP/ FDP Attended- 0**

**Expertise:** Theory of computation, Data mainning,computer graphics

**Paper Publication:** 5 International

**Workshop/Training conducted/ Organised – 5**

**Email :** bhagyshri.lachhwani@aitindia.in

### **PROF. BINOLI S. SHAH**

**Designation:** Assistant Professor

**Experience:** 4 .8 years

**Qualification:** ME(CE), BE (IT)

**STTP/ FDP Attended- 0**

**Expertise:** Network Security, Ethical Hacking, operating system, Cloud Computing

**Paper Publication:** 1 International

**Workshop/Training conducted/ Organised – 0**

**Email :** binoli.shah@aitindia.in

### **PROF. CHINTAN R. NAGRECHA**

**Designation:** Assistant Professor

**Experience:** 4.7 years

**Qualification:** MECE), BE (IT)

**STTP/ FDP Attended- 4**

**Expertise:** Security, web designing, PHP system Programming

**Paper Publication:** 3 International, 2 National

**Workshop/Training conducted/ Organised – 2**

**Email :** chintan.nagrecha@aitindia.in

### **PROF. NEHA M. PRAJAPATI**

**Designation:** Assistant Professor

**Experience:** 4.7 years

**Qualification:** ME (CE), BE (CE)

**STTP/ FDP Attended-2**

**Expertise:** Data Mining,Web Designing, Operating system

**Paper Publication:** 1 International, 1 National

**Workshop/Training conducted/ Organised –6**

**Email :** neha.Parjapati@aitindia.in

### **PROF. SAMIR R. PATEL**

**Designation:** Assistant Professor

**Experience:** 5.5 years

**Qualification:** Mtech (IT), Btech (IT)

**STTP/ FDP Attended-3**

**Expertise:** Privacy Preserving Data Mining, Web Data Mining, Networking

**Paper Publication:** 3 International

**Workshop/Training conducted/ Organised – 4**

**Email :** samir.patel@aitindia.in



### PROF. MADHURI H. PAREKH

**Designation:** Assistant Professor

**Experience:** 11 years

**Qualification:** ME(CE),BE(CE)

**STTP/ FDP Attended-** 0

**Expertise:** Data Mining, Cloud Computing, system programming

**Paper Publication:** 2 International

**Workshop/Training conducted/ Organised – 6**

**Email :** madhuri.parekh@aitindia.in



### PROF. PARINDA N. PRAJAPATI

**Designation:** Assistant Professor

**Experience:** 8 months

**Qualification:** ME(CE), BE (IT)

**STTP/ FDP Attended- 0**

**Expertise:** Computer Network, DBMS, Information network security

**Paper Publication:** 1 International, 1 National

**Workshop/Training conducted/ Organised – 4**

**Email :** parinda.prajapti@aitindia.in



### PROF. HEENA S. PANJWANI

**Designation:** Assistant Professor

**Experience:** 2 years

**Qualification:** ME(CE), BE (CE)

**STTP/ FDP Attended- 1**

**Expertise:** HTML, Advance HTML, CSS, PHP

**Paper Publication:** 2 International

**Workshop/Training conducted/ Organised – 1**

**Email :** heena.panjwani@aitindia.in



### PROF. BANSARI R. THAKKAR

**Designation:** Assistant Professor

**Experience:** 2 years

**Qualification:** ME(CE), BE (CE)

**STTP/ FDP Attended-0**

**Expertise:** Distributed DBMS, Software Engineering, Computer Organization

**Paper Publication:** 2 International, 2 National

**Workshop/Training conducted/ Organised – 2**

**Email :** bansari.thakkar@aitindia.in



### PROF. RUPAL D. RAVIYA

**Designation:** Assistant Professor

**Experience:** 3 years

**Qualification:** ME(CE), BE (IT)

**STTP/ FDP Attended- 5**

**Expertise:** Network Security, Ethical Hacking, Mpi-cuda, Programming, Cloud Computing

**Paper Publication:** 3 International, 1 National

**Workshop/Training conducted/ Organised – 3**

**Email :** rupal.raviya@aitindia.in

## Toppers Of AIT....

### 1<sup>st</sup> Semester Computer Engineering

Sr. No.	Student Name	CPI	SPI
1.	GHELANI YASH PIYUSHBHAI	8.76	8.76
2.	SHETH BHAVYA SANDIPKUMAR	8.53	8.53
3.	DADHICH DHWANI AMITKUMAR	8.29	8.29
4.	SHAH DEEP KAMLESHBHAI	8.12	8.12
5.	CHOPRA SHREYANSH OMPRAKASH	7.82	7.82
6.	PATEL SHREYA JAYESHKUMAR	7.53	7.53
7.	SARVAIYA PRATIK JAGDISHKUMAR	7.53	7.53
8.	RAVAL SAAJ VISHWAS	7.47	7.47
9.	DABHI UTSAV NARESHBHAI	7.41	7.41
10.	VADHIYA PRITI ANILBHAI	7.24	7.24

### 2<sup>nd</sup> Semester Computer Engineering

Sr. No.	Student Name	CPI	SPI
1.	SANGANI JUHIL MUNESHBHAI	8.83	8.83
2.	PRAJAPATI CHHAGANLAL LUMBARAM	8.75	9.27
3.	BILLAVA RAHUL SANJEEVA	8.67	8.87
4.	BHAVESH KUMAR	8.37	8.77
5.	NAIDU SUNDERAM SANMUGAM	8.37	9.00
6.	AKSHIT VAISHNAV	8.33	9.03
7.	PATADIA KIRTAN MAYANKBHAI	8.30	8.60
8.	PATEL TIRTH PRAVINBHAI	8.13	8.83
9.	SANDEEP KUMAR SINGH	8.05	8.67
10.	SHAH RUSHIKA RAJENDER	7.98	8.30

### 3<sup>rd</sup> Semester Computer Engineering

Sr. No.	Student Name	CPI	SPI
1.	PRAJAPATI CHHAGANLAL LUMBARAM	8.91	9.21
2.	PATADIA KIRTAN MAYANKBHAI	8.67	9.33
3.	BILLAVA RAHUL SANJEEVA	8.67	8.67
4.	SANGANI JUHIL MUNESHBHAI	8.58	8.12
5.	BHAVESH KUMAR	8.51	8.76
6.	AKSHIT VAISHNAV	8.47	8.73
7.	PATEL TIRTH PRAVINBHAI	8.42	8.94
8.	NAIDU SUNDERAM SANMUGAM	8.3	8.18
9.	SANDEEP KUMAR SINGH	8.25	8.6111
10.	FABIYANI CHIRAG MANOJKUMAR	8.01	8.33

### 4<sup>th</sup> Semester Computer Engineering

Sr. No.	Student Name	CPI	SPI
1.	PATEL AASTHA VIRENDRABHAI	8.93	8.76
2.	TIWARI SUMAN MAHESHKUMAR	8.86	8.88
3.	SHAH NEEL DILESHKUMAR	8.40	8.64
4.	DALAL NISHANT ANKUSH	8.30	8.42
5.	GONDALIYA DRASHTI MANSUKHBHAI	8.17	7.91
6.	BHARTI RAWAT	8.13	8.30
7.	SHAH RUTVA JIGNESH	8.11	8.21
8.	PACHORI PARUL ALOK	8.10	8.97
9.	DHOLAKIA CHINTAL JITENDRA	7.98	8.52
10.	DESAI SAVAN BHARATBHAI	7.90	8.36

**5<sup>th</sup> Semester Computer Engineering**

Sr. No.	Student Name	CPI	SPI	CGPA
1.	PATEL AASTHA VIRENDRABHAI	9.02	9.4	9.4
2.	TIWARI SUMAN MAHESHKUMAR	8.79	8.5	8.5
3.	DALAL NISHANT ANKUSH	8.47	9.2	9.2
4.	SHAH NEEL DILESHKUMAR	8.37	8.2	8.2
5.	PACHORI PARUL ALOK	8.27	9	9
6.	GONDALIYA DRASHTI MANSUKHBHAI	8.26	8.6	8.6
7.	BHARTI RAWAT	8.22	8.6	8.6
8.	SHAH RUTVA JIGNESH	8.15	8.3	8.3
9.	DUDHAT DHRUVIN CHAMPAKBHAI	8.13	8.6	8.6
10.	DESAI SAVAN BHARATBHAI	8.07	8.8	8.8

**6<sup>th</sup> Semester Computer Engineering**

Sr. No.	Student Name	CPI	SPI	CGPA
1.	SUMIT G ADVANI	9.01	8.79	9.00
2.	DANECH KUNTAL ALKESHBHAI	8.69	9.48	8.73
3.	PATEL ZALAK	8.64	9.10	8.80
4.	BASERA NEHA ARVINDSINH	8.42	8.48	8.19
5.	PATEL RUTU	8.38	8.38	8.24
6.	PATEL PREKSHA KALPESHBHAI	8.32	8.59	8.34
7.	SHARMA REVATI VINEET	8.30	8.17	8.03
8.	PURVA MISTRY	8.23	8.41	8.31
9.	JAIN PRIYANSHI MAHENDRAKUMAR	8.21	7.59	7.69
10.	SAVALIYA DRASHTI	8.21	9.38	8.68

**7<sup>th</sup> Semester Computer Engineering**

Sr. No.	Student Name	CPI	SPI	CGPA
1.	SUMIT G ADVANI	9.03	9.14	9.05
2.	DANECH KUNTAL ALKESHBHAI	8.81	9.61	9.01
3.	PATEL ZALAK	8.71	9.18	8.92
4.	BASERA NEHA ARVINDSINH	8.54	9.36	8.56
5.	PATEL RUTU	8.38	8.43	8.30
6.	PATEL PREKSHA KALPESHBHAI	8.38	8.79	8.48
7.	PURVA MISTRY	8.33	8.96	8.52
8.	SAVALIYA DRASHTI	8.31	9.04	8.79
9.	SHARMA REVATI VINEET	8.29	8.21	8.09
10.	DHRUVIL VORA	8.23	9.00	8.48

**8<sup>th</sup> Semester Computer Engineering**

Sr. No.	Student Name	CPI	SPI	CGPA
1.	JAIN AAKANKSHA VIJAYKUMAR	8.96	9.59	9.07
2.	CHOKSHI ADWITA PRADIPKUMAR	8.85	9.19	8.97
3.	RASHI ADUKIA	8.85	9.19	8.98
4.	SABOO BANSI PRAMODKUMAR	8.81	9.37	9.13
5.	PATEL DHRUVISH BHARATBHAI	8.61	9.33	8.94
6.	ANKITA SHEKHAR	8.49	9.59	9.09
7.	PANDYA RIDDHISAYURBHAI	8.31	9.19	8.93
8.	SONI KARNAVI RAJESHBHAI	8.26	8.96	8.42
9.	RIYA BAGRECHA	8.25	8.41	8.26
10.	JANI ISHITA YOGESHKUMAR	8.11	9.00	8.44

### 1<sup>st</sup> Semester Information Technology

Sr. No.	Student Name	CPI	SPI
1.	SARDA SUMIT INDERCHAND	8.41	8.41
2.	BHANSALI PAYAL NARESH	8.24	8.24
3.	KSHATRIYA RASHMI AJAYKUMAR	7.65	7.65
4.	KUSHWAHA SUNNY JITENDRA	7.24	7.24
5.	RADADIYA PARIMAL MAVJIBHAI	7.24	7.24
6.	MANTRI RADHIKA NILESH	7.06	7.06
7.	MENPARA MANTHON ARVINDBHAI	7.06	7.06
8.	BHATT KRUTIK VIJAYBHAI	7.00	7.00
9.	CHAUHAN KASHISH HARESHKUMAR	6.94	6.94
10.	SANGANI BHAVIK RAJENDRAKUMAR	6.76	6.76

### 2<sup>nd</sup> Semester Information Technology

Sr. No.	Student Name	CPI	SPI
1.	BORAD RUTA MANOJBHAI	8.72	9.10
2.	SAVANI MAHEK LALAJIBHAI	8.70	9.03
3.	BHAGWAT NISARG ANILBHAI	8.43	8.90
4.	CHHATBAR Mitesh MAHESHBHAI	8.40	8.70
5.	SORATHIYA MADHAVIBEN CHATURBHAI	8.23	8.77
6.	VACHHANI HIMABEN RUSHIKESHBHAI	8.12	8.17
7.	JAGANI DHRUVIN ARVINDBHAI	8.10	8.33
8.	JOSHI MEET NIKHIL	7.97	8.10
9.	BORAD JENISH MADHUBHAI	7.70	8.37
10.	KOTHIYA SARJAKKUMAR JITUBHAI	7.62	7.70

### 3<sup>rd</sup> Semester Information Technology

Sr. No.	Student Name	CPI	SPI
1.	BORAD RUTA MANOJBHAI	9.04	9.64
2.	CHHATBAR Mitesh MAHESHBHAI	8.61	9
3.	VACHHANI HIMABEN RUSHIKESHBHAI	8.51	9.21
4.	SORATHIYA MADHAVIBEN CHATURBHAI	8.49	8.97
5.	SAVANI MAHEK LALAJIBHAI	8.41	7.88
6.	BHAGWAT NISARG ANILBHAI	8.4	8.33
7.	JAGANI DHRUVIN ARVINDBHAI	8.08	8.03
8.	KOTHIYA SARJAKKUMAR JITUBHAI	7.65	7.7
9.	IYENGAR ANUJ	7.51	7.52
10.	MISTRY DHAVAL SURESHBHAI	7.42	7.91

### 4<sup>th</sup> Semester Information Technology

Sr. No.	Student Name	CPI	SPI
1.	TRIPATHI VINAYAK RAMCHET	8.75	8.97
2.	DAVE SHAILI	8.73	8.82
3.	MEHTA SANKET USHANGBHAI	8.31	8.03
4.	KOTADIYA HARESHKUMAR BABABHAI	8.10	8.85
5.	THAKKAR KRISHNA JAY	7.94	8.03
6.	AMBAKHUTWALA HUZAIFA ALIASGAR	7.78	7.94
7.	SHAH DHAIRYA SHAILESH	7.75	7.73
8.	PATEL RAJAN ATULKUMAR	7.65	7.52
9.	SHARMA KAMLESH SATYANARAYAN	7.61	7.45
10.	MODI VRAJESH RASHESHBHAI	7.57	7.94

**5<sup>th</sup> Semester Information Technology**

Sr. No.	Student Name	CPI	SPI	CGPA
1.	DAVE SHAILI	8.82	9.20	9.20
2.	TRIPATHI VINAYAK RAMCHET	8.60	8.00	8.00
3.	MEHTA SANKET USHANGBHAI	8.23	7.90	7.90
4.	AMBAKHUTWALA HUZAIFA ALIASGAR	8.01	9.00	9.00
5.	THAKKAR KRISHNA JAY	7.92	7.80	7.80
6.	KOTADIYA HARESHKUMAR BABABHAI	7.83	6.70	6.70
7.	SHAH DHAIRYA SHAILESH	7.82	8.10	8.10
8.	MODI VRAJESH RASHESHBHAI	7.81	8.80	8.80
9.	PATEL RAJAN ATULKUMAR	7.78	8.30	8.30
10.	PATEL SAMARTH TULSIBHAI	7.67	8.30	8.30

**6<sup>th</sup> Semester Information Technology**

Sr. No.	Student Name	CPI	SPI	CGPA
1.	PARIYANI BHAVESH MAHESHBHAI	8.76	9.16	8.74
2.	GILL POONAM KULDEEPSINGH	8.47	9.00	8.61
3.	PANDYA PRANJALI ASITKUMAR	8.45	9.00	8.85
4.	GOHEL HARSHAL DHRUVKUMAR	8.22	8.39	8.30
5.	GEET DESAI	8.18	8.39	8.39
6.	PATEL SOHAM RAJESHKUMAR	8.13	8.13	8.16
7.	DIVYA JAIN	8.04	8.03	8.21
8.	JANI ADITYA AMITBHAI	7.98	8.94	8.82
9.	TRIVEDI SHIVAM ASHOKBHAI	7.94	8.45	8.57
10.	PATEL NIKHIL VIRENDRAKUMAR	7.89	8.45	8.08

**7<sup>th</sup> Semester Information Technology**

Sr. No.	Student Name	CPI	SPI	CGPA
1.	PARIYANI BHAVESH MAHESHBHAI	8.79	9.00	8.82
2.	PANDYA PRANJALI ASITKUMAR	8.60	9.63	9.09
3.	GILL POONAM KULDEEPSINGH	8.55	9.15	8.77
4.	GOHEL HARSHAL DHRUVKUMAR	8.32	9.00	8.51
5.	GEET DESAI	8.30	9.19	8.64
6.	JANI ADITYA AMITBHAI	8.21	9.78	9.11
7.	DIVYA JAIN	8.14	8.81	8.40
8.	TRIVEDI SHIVAM ASHOKBHAI	8.10	9.26	8.78
9.	PATEL NIKHIL VIRENDRAKUMAR	7.93	8.15	8.10
10.	PATEL SOHAM RAJESHKUMAR	7.93	6.59	7.68

**8<sup>th</sup> Semester Information Technology**

Sr. No.	Student Name	CPI	SPI	CGPA
1.	AAYUSHI JAIN	8.88	9.19	9.24
2.	DEVANGI SHANTILAL VADHDIYA	8.70	9.19	9.11
3.	JAIN DISHA MANOJBHAI	8.64	9.37	9.19
4.	PATEL ROSHAN SITARAMJI	8.38	8.96	8.90
5.	PATEL PAYAL ARVINDBHAI	8.15	8.59	8.33
6.	SHAH AKSHAY MUKUNDBHAI	8.13	9.15	8.50
7.	PANCHAL SEJAL HASMUKHBHAI	8.11	8.19	8.29
8.	PATEL PRINCY KAMLESHBHAI	8.08	9.19	8.73
9.	PATEL JANKI RAJESHBHAI	8.04	8.19	8.43
10.	PATEL VISHWA MUKESHKUMAR	7.96	8.41	8.37

# Achievements of our students



## 1<sup>st</sup> RANK IN HACKATHON 2018

Our students showcased their talent and skill and bagged the coveted 1<sup>st</sup> position. Our students not only secured 1<sup>st</sup> position but also won cash prize in category of First overall and First in home department.

AIT HACKATHON team received prize from **Hon. CM Shri Vijay Rupani** which was very proud moment for AIT college.

## 1<sup>st</sup> RANK IN GTU

### Ms. Vrinda Aggarwal (B.E 2013-17, CE )

It gives us immense pleasure to share this type of result in engineering. Ahmedabad Institute Of Technology achieved 1<sup>st</sup> rank in GTU.

Student's hard-work and perseverance, facultie's constant guidance and care and the management's support and concern made it possible to achieve such milestone.



## KARATE CHAMPION

AIT college always support hidden talent of every student and provide platform for their skill. One of our students Mr. Rahul kumar (BE 17-21) showcased his talent and won so many awards and prizes by giving us very proud feeling.



1<sup>st</sup> rank in Gujarat state level SEIKO KAT karate championship-2019

1<sup>st</sup> rank in ISKU international karate cup-2018

# Our Student's Achievements....

Sr. No.	Enrollment No.	Name	Achievement
1	150020107084	Mistry Purva	1st Runner Up in C-Quiz at GTU-SAL Technical Campus in 2016
2	150020107114	Sumit Advani	1st Runner Up in C-Quiz at GTU-SAL Technical Campus in 2016
3	150020107114	Sumit Advani	3rd Position in C-Quiz at GTU-Techfest-VGEC in 2016
4	150020107114	Sumit Advani	3rd Positioin in Debugging at GTU-Techfest-VGEC in 2016
5	150020107108	Sharma Revati	3rd Positioin in C-Quiz at GTU-SAL Technical Campus in 2016
6	150020107016	Danech Kuntal	1st Runner Up in C-Quiz at GTU-SAL Technical Campus in 2016
7	150020107094	Joshi Sanket	2nd Runner Up in C-Quiz at GTU-Techfest-SAI Technical Campus in 2016
8	150020107067	Patel Nisarg	2nd Runner Up in C-Quiz at GTU-Techfest-SAI Technical Campus in 2016
9	160023107510	Singh Gaurav	2nd in Tech-o-Hunt ISO-Student Chapter at Nirma-University in 2017
10	150020107114	Sumit Advani	2nd position in C-Quiz at GTU-Techfest-Silerver Oak Group of Institute in 2017
11	160023107017	Kamani Parth	2nd position in Tech-o-Hunt ISA-Student Chapter at Nirma University in 2017
12	160023107016	Parmar Krishna	6th Position in Code-A-Thon ISA-Student Chapter at Nirma University in 2017
13	160023107016	Parmar Krishna	6th Position in Tech-o-Hunt ISA-Student Chapter at Nirma University in 2017
14	160023107012	Mishra Sandip	2nd position in Tech-o-Hunt ISA-Student Chapter at Nirma University in 2017
15	160023107005	Karnik Jashraj	2nd position in Tech-o-Hunt ISA-Student Chapter at Nirma University in 2017
16	170020116008	Chhaatbar Mitesh	Runner Up in Quiz at AIT, Ahmedabad in 2017
17	170020116018	Makwana Mitesh	Winner in Quiz at AIT, Ahmedabad in 2017
18	150020116018	Korat Praful	2nd position in Web-Design at SAL Technical Campus in 2017
19	150020116018	Korat Praful	2nd position in Design-Boom at AIT,Ahmedabad in 2017
20	150020107103	Shah Monil	1st Position in Bit The Geek at AIT,Ahmedabad in 2018
21	150020107004	Baxi Meet	1st Position in Bit The Geek at AIT,Ahmedabad in 2018
22	150020107008	Bhatt Vismay	Winner in Quiz-Bizz at SPM-PDPU-Gandhinagar in 2018
23	150020116051	Shah Heta	1st Position in Design Your Dreams at GIT:Gandhinagar in 2018
24	160020116001	Chotaliya Riddhi	1st Position in Design Your Dreams at GIT:Gandhinagar in 2018

# AIT – HACKATHON 2019

Computer Engineering and Information technology department feeling proud to announce that, the first Hackathon of AIT was completed successfully. As you all are familiar with the process of hackathon – the softwares / tools that institute needed were given as a problem statement. Students were worked on the problem statement for 4 months and did fantastic work on all the topics.

Started from January 2019 and completed in April 2019, In these 4 months journey total 8 teams had participated to compete with each other. Each team had allocated internal faculty guide. The role of faculty guide was important and all faculty members did their job nicely.

Following teams stood for the first & second (Runner-up Team)

<b>FIRST RANK</b>	6-IT (Infinity+) AIT COMPLAIN PORTAL	Maulik Patel
<b>RUNNER-UP 1</b>	4-CE (TBA) AIT FEEDBACK SYSTEM	Abhi Champanera Kishan Jam Hitesh Ker Hardik Khasatiya
<b>RUNNER-UP 2</b>	6-CE (THE VIKINGS) AIT FACULTY LEAVE MANAGEMENT SYSTEM	Jayam A Thaker Zeel Ravalani

Following are the topics and team details which participated in hackathon.

## 1. AIT Feedback System

Faculty Guide: Prof. Samir Patel

SR.NO	TEAM NAME	SEM & BRANCH	MEMBERS
1	The Boring Coders	6-CE	Shah Neel Patel Maharshi Thumber Jaiwin
2	TBA	6-CE	Aastha Patel Deep Gandhi Shyani Hemil Dholakia Chintal Nishant Dalal

## 2. AIT Faculty Leave Management System

Faculty Guide: Prof. Madhuri Parekh, Prof. Bhagyashri Lachhwani

SR.NO	TEAM NAME	SEM & BRANCH	MEMBERS
1	The Vikings	6-CE	Jayam A Thaker Zeel Ravalani

## 3. AIT Complain Portal

Faculty Guide: Prof. Misba Shaikh, Prof. Sweety Patel

SR.NO	TEAM NAME	SEM & BRANCH	MEMBERS
1	Infinity+	6-IT	Maulik Patel

## 4. SIF(STUDENT INFORMATION) PORTAL:

Faculty Guide: Prof. Neha Prajapati, Prof. Bansari Thakkar

SR.NO	TEAM NAME	SEM & BRANCH	MEMBERS
1	The New Crew	4-IT	Chhatbar Mitesh Savani Mahek Borad Ruta Krina Kanani Hima Vachhani
2	Techmates	4-CE	Abhi Champanera Kishan Jam Hitesh Ker Hardik Khasatiya

## 5. ADMISSION ENQUIRY PORTAL:

Faculty Guide: Prof. Neha Prajapati

SR.NO	TEAM NAME	BRANCH & SEM	MEMBERS
1	The Creators	4-IT	Fenil Choksi Jaydeep Maulik Nisarg Bhagwat
2	Technogeek	4-CE	Sandeep Kumar Singh Bhavesh Kumar Akshit Vaishnav Anuj Dave

# HACKATHON PHOTOS



**AIT -CE & IT Department**

Computer engineering and Information Technology is one of the most in demand and versatile platform today. Computer/IT engineering is a discipline that integrates several fields of electrical engineering and computer science required to develop computer hardware and software. It incorporates various disciplines like networking, database handling, Application, artificial intelligence, embedded systems etc. The students will be learning all aspects of computer engineering and information technology. The students will be exposed to various practical projects and assignments. Computer engineers design, construct, and maintain computer programs for companies. Some set up networks such as "Intranet" for companies. Others make or install new software or upgrade computer systems, and some also work in application design. Accomplished computer professionals and experienced faculties are provided for the facility of the students. Several prestigious companies come for placements every year like Wipro, TCS, ITC, etc. for three years.

**Semester**

**4th Semester**

Welcome to 4th Sem Computer Engineering & Information technology. This portal contains all the material for 4th semester Computer Engineering & Information technology Department students.

**Home**

**Object oriented Programming with C++**

**Subjects**

GTU Code	Subject Name	Credit	Theory	Practical	Total
Z140702	Design Engineering -I B	3	0	100	100
Z140702	Computer System	6	100	50	150
Z140702	Object Oriented Programming Using C++	8	100	50	150
Z140706	Numerical and Statistical Methods for Computational Engineering	5	100	50	150
Z140707	Computer Organization	5	100	50	150
Z140709	Computer Networks	6	100	50	150

## AIT CE/IT PORTAL

We are happy to inform you that we have created AIT-CE Department Portal as a One Touch Solution for the students of Computer Engineering and Information Technology.

This portal will act as a bridge between students and faculties through which Faculties can send their subject related documents (Syllabus, Question Bank, Practical, GTU Papers, Assignments and other Subject Related Materials. From the portal students can also get the other information like Academic Calendar, Time Table, MSE Exam Schedule, and MSE Marks. Portal is also having features like Notice Board and Photo Gallery.

It is prepared by Dr. Ajay N. Upadhyaya (Head of CE & IT Department, AIT) using new Google Site Platform. It is available for 24x7 for All.

Link of the Portal is:  
<https://goo.gl/N8Yhp8>



## Ahmedabad Institute of Technology

### CE and IT Department

#### Workshop List of 2018-2019

Sr. No.	Workshop/Industrial Visit	Workshop/Visit Coordinator	Date	Student Details
01	Workshop on Advance Database	Dr. Ajay N. Upadhyaya, Prof. Parinda Prajapati & Prof. Bansari Thakkar	06/08/2018	Sem-5 CE <b>46 Participants</b>
02	Workshop on PL/SQL	Dr. Ajay N. Upadhyaya, Prof. Parinda Prajapati & Prof. Bansari Thakkar	07/08/2018	Sem-3 CE <b>37 Participants</b>
03	Workshop on Java using MVC Architecture	Dr. Ajay Upadhyaya & Prof. Sweety Patel		Sem-5 CE <b>52 Participants</b>
04	Workshop on Design Engineering-I	Prof. Rinkal Patel & Prof. Sweety Patel	08/08/2018	Sem-3 CE <b>51 Participants</b>
05	Workshop on HTML5 & CSS	Prof. Chintan Nagrecha		Sem-5 CE <b>46 Participants</b>
06	Workshop on HTML	Prof. Bhagyshri Lachhwani, & Prof. Madhuri Parekh	09/08/2018	Sem-3 CE <b>39 Participants</b>
07	Workshop on Design Engineering-II	Prof. Rinkal Patel & Prof. Sweety Patel		Sem-5 CE <b>74 Participants</b>
08	Workshop on Testing and Automation using Selenium	Prof. Chintan Nagrecha		Sem-7 CE-IT <b>32 Participants</b>
09	Workshop on Design Engineering-I	Prof. Jyoti Gautam & Prof. Dhaval Khatri	13/08/2018	Sem-3 IT <b>26 Participants</b>
10	Workshop on C Graphics	Prof. Bhagyshri Lachhwani & Prof. Madhuri Parekh		Sem-3 CE <b>37 Participants</b>
11	Workshop on Web Technology	Prof. Samir Patel & Prof. Heena Panjwani	14/08/2018	Sem-3 & 5 IT <b>39 Participants</b>
12	Workshop on Network Designing	Dr. Ajay N. Upadhyaya, Prof. Madhuri Parekh & Prof. Parinda Prajapati		Sem-5 CE <b>24 Participants</b>

13	Workshop on PHP using MVC Architecture	Dr. Ajay N. Upadhyaya & Prof. Neha Prajapati	14/08/2018	Sem-5 & 7 CE 32 Participants
14	Workshop on Python	Prof. Samir Patel & Prof. Jyoti Gautam		Sem-3 & 5 IT 41 Participants
15	Workshop on Cloud Computing	Dr. Ajay N. Upadhyaya & Prof. Parinda Prajapati,	16/08/20180	Sem 5 & 7 CE-IT 79 Participants
16	Workshop on Networking	Dr. Ajay N. Upadhyaya & Prof. Parinda Prajapati,	28/01/2019	Sem 4 CE 42 participant
17	Workshop on Android	Prof.Neha Prajapati & Prof.Madhuri Parekh	28/01/2019	Sem 4 IT 21 Participants
18	Workshop on SRS	Prof.Bhagyshri Lachhwani & Prof.Misba Shaikh	28/01/2019	Sem 6 CE & IT 59 Participants
19	Workshop on basic PHP	Dr.Ajay.N.Upadhyaya & Prof. Heena Panjwani	30/01/2019	Sem 4 CE & IT 60 Participants
20	Workshop on DE	Prof.Parinda Prajapati & Prof. Sweety Patel	30/01/2019	Sem 6 CE & IT 99 Participants
21	Workshop on Advance Graphics	Prof.Bhagyshri Lachhwani & Prof. Madhuri Parekh	31/01/2019	Sem 4 CE 34 Participants
22	Workshop on IOT	Dr. Ajay.N.Upadhyaya & Prof. Neha Prajapati	31/01/2019	Sem 6 CE & IT 42 Participants
23	Workshop on DE	Prof. Parinda Prajapati & Prof. Sweety Patel	1/02/2019	Sem 4 CE & IT 90 Participants
24	Workshop on Adv PHP	Dr. Ajay.N.Upadhyaya & Prof. Heena Panjwani	1/02/2019	Sem 6 CE & IT 45 Participants

**“ Focus on the journey, not the destination.**

**Joy is found not in finishing activity but in doing it.”**

**-Greg Anderson**

# AHMEDABAD INSTITUTE OF TECHNOLOGY

## NPTEL CERTIFICATION STUDENT LIST

No.	Enrollment No.	Student Name	NPTEL Course Name	Guide Name
1	170020107041	Patel Tirth	Problem Solving Through C programming	Prof. Bhagyshri Lachhwani
2	170020107008	Rahul Billava	Problem Solving Through C programming	Prof. Bhagyshri Lachhwani
3	170020107043	Mitul Pobaru	Problem Solving Through C programming	Prof. Bhagyshri Lachhwani
4	170020107045	Prajapati Chhaganlal	Problem Solving Through C programming	Prof. Bhagyshri Lachhwani
5	170020107050	Sangani Juhil	Problem Solving Through C programming	Prof. Bhagyshri Lachhwani
6	170020107018	Chirag Fabiyani	Problem Solving Through C programming	Prof. Bhagyshri Lachhwani
7	170020107015	Anuj Dave	Problem Solving Through C programming	Prof. Bhagyshri Lachhwani
8	170020116040	Vachhani Himaben	Database Management System	Prof. Samir Patel
9	170020116008	Mitesh Chhatbar	Database Management System	Prof. Samir Patel

*"EDUCATION is not the learning of facts but the training of the mind to think."*

-Albert Einstein

# *The mind of God : Stephen*

## **Who Was Stephen Hawking?**

Theoretical physicist Stephen Hawking (January 8, 1942 to March 14, 2018) was a British scientist, professor and author who performed ground-breaking work in physics and cosmology, and whose books helped to make science accessible to everyone. At age 21, while studying cosmology at the University of Cambridge, he was diagnosed with amyotrophic lateral sclerosis (ALS). Part of his life story was depicted in the 2014 film *The Theory of Everything*.

The onset of Hawking's graduate education at Cambridge marked a turning point in his life. It was then that he embarked upon the formal study of cosmology, which focused his study. And it was then that he was first stricken with Lou Gehrig's disease, a weakening disease of the nervous and muscular system that eventually led to his total confinement in a wheelchair. At Cambridge his talents were recognized, and he was encouraged to carry on his studies despite his growing physical disabilities.

## **Unified field theory**

In the 1980s Hawking answered one of Einstein's unanswered theories, the famous unified field theory. A complete unified theory includes the four main interactions known to modern physics. The unified theory explains the conditions that were present at the beginning of the universe as well as the features.

Features of the physical laws of nature. When humans develop the unified field theory, said Hawking, they will "know the mind of God."



Professor Stephen Hawking on the basic laws which govern the universe. With Roger Penrose he showed that Einstein's general theory of relativity implied space and time would have a beginning in the Big Bang and an end in black holes (1970). These results indicated that it was necessary to unify general relativity with quantum theory, the other great scientific development of the first half of the 20th century. One consequence of such a unification that he discovered was that black holes should not be completely black, but rather should emit 'Hawking' radiation and eventually evaporate and disappear (1974). This would imply that the way the universe began was completely determined by the laws of science. Towards the end of his life, Stephen was working with colleagues on a possible resolution to the black hole information paradox, where debate centres on the conservation of information.

# IoT (Internet of Things)

The Internet of Things (IoT) is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.

The IoT can realize the seamless integration of various manufacturing devices equipped with sensing, identification, processing, communication, actuation, and networking capabilities. Based on such a highly integrated smart cyberphysical space, it opens the door to create whole new business and market opportunities for manufacturing. Network control and management of manufacturing equipment, asset and situation management, or manufacturing process control bring the IoT within the realm of industrial applications and smart manufacturing as well.

There are numerous IoT applications in farming such as collecting data on temperature, rainfall, humidity, wind speed, pest infestation, and soil content. This data can be used to automate farming techniques, take informed decisions to improve quality and quantity, minimize risk and waste, and reduce effort required to manage crops. For example, farmers can now monitor soil temperature and moisture from afar, and even apply IoT-acquired data to precision fertilization programs.

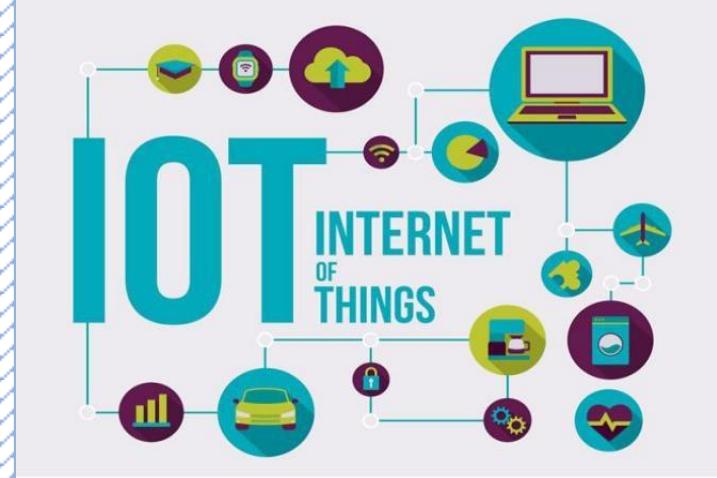
## Architecture of IOT:

IoT system architecture, in its simplistic view, consists of three tiers:

Tier 1: Devices

Tier 2: The Edge Gateway

Tier 3: the Cloud



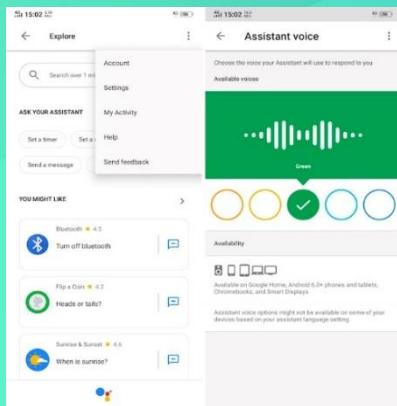
Devices include networked things, such as the sensors and actuators found in IIoT equipment particularly those that use protocols such as Modbus, Zigbee, or proprietary protocols, to connect to an Edge Gateway. The Edge Gateway consists of sensor data aggregation systems called Edge Gateways that provide functionality, such as pre-processing of the data, securing connectivity to cloud, using systems such as WebSocket, the event hub, and, even in some cases, edge analytics or fog computing.

The final tier includes the cloud application built for IIoT using the microservices architecture, which are usually polyglot and inherently secure in nature using HTTPS/OAuth. It includes various database systems that store sensor data, such as time series databases or asset stores using backend data storage systems (e.g. Cassandra, Postgres). The cloud tier in most cloud-based IoT system features event queuing and messaging system that handles communication that transpires in all tiers.

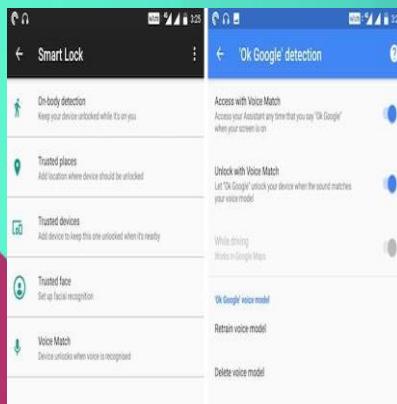
-Nisarg Bhagwat  
(170020116001)

"The goal of education is the advancement of knowledge and the dissemination of truth."  
- john fitzgerald kennedy

# Google assistant tips and tricks to know....



1. We all know that Google Assistant comes with a female voice with an American accent. However, if you don't like it you can change its voice as now Google Assistant supports multiple voices which include both men and women voices with different accents. To change your Google Assistant's voice launch it and then go to Settings -> Preferences -> Assistant Voice and select the one that you find the best. Select Your Favourite Google Assistant Voice.



2. Google Assistant can also help you in easily unlocking your phone and launching apps. To set up phone unlock with your voice, open the Settings app and search for Smart Lock. Here, under Voice Match or Trusted Voice, enable the "Unlock with Voice Match" option. From next time, you can just say the magic word (Ok Google or Hey Google), and your phone will unlock right away. Do note that while this feature is convenient it's not as secure as a password or biometric authentication.

## 3. Use Location-Based Reminders

If you are someone who always forgets tasks you should use location-based reminders as they come in really handy. I use the location-based reminders for pretty much everything that I need to instantly do when I reach someplace. For example, I say, "Hey Google, remind me to turn on the motor When I reach home". Now, when I reach home, the Assistant will remind me what to do. This is a very nifty tip and will come in handy.

## 4. Get Currency and Unit Conversions

Google Assistant is also very useful when you need to perform any type of currency or unit conversions. I can just say things like, "Hey Google, convert \$56 into INR" and it will do that for me. so one can use this feature also.

-Mahek Savani  
( 170020116036 )



## Tips And Tricks You Should Know

### 1) USE QUOTES TO SEARCH FOR AN EXACT PHRASE

Searching a phrase in quotes will yield only pages with the same words in the same order as what's in the quotes.

It's one of the most vital search tips, especially useful if you're trying to find results containing a specific phrase.

### 2) FIND SPECIFIC DOCUMENT TYPES

If you are looking to find results that are of specific types, you can use the modifier "filetype:"

### 3) FIND RELATED WEBSITES

If you want to find new websites with similar content to a website you already know of, use the "related:somesite.com" modifier.

### 4) FIND MOVIES OR ANY OTHER CONTENT

If you want to find movies direct from database then use keyword "index of" before your movie name.

### 5) GOOGLE PACKMAN

Just search 'Google packman' on google and enjoy packman game right on your page.

```
// life motto  
if (sad() === true) {  
  sad().stop();  
  beAwesome();  
}
```

## Difference between coder, programmer, developer and software engineer

### 1) CODER :-

Anyone who can write some code is often referred to as a coder by the people outside of the tech industry. Usually coders are considered the least trained or experienced level of programmers.

### 2) PROGRAMERS AND DEVELOPERS:-

The titles Developer and Programmer are often used interchangeably. They are more experienced code writers **who can write clean and error free codes.**

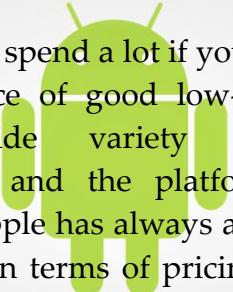
### 3) SOFTWARE ENGINEER:-

These are of the highest among all, who are most expert coders around. They use their skills to design and implement the overall architecture of the application



## Android VS iOS Controversy....

### 1. AFFORDABILITY

you can spend a lot if you want to with the huge choice of good low-cost handsets from a wide variety of different manufacturers and the platform has been deliberately Apple has always at the high end of the market in terms of pricing, while with the android optimized to run on low end hardware.

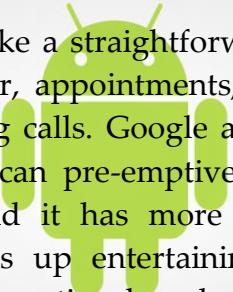
### 2. APPS

**Android apps :** 2.6 million(approx)

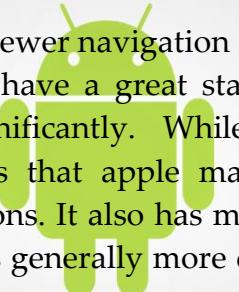
**iOS apps :** 2.2 million(approx)

The Play Store still has a higher percentage of free apps than the App Store. But, the best mobile games still land on iOS first. Ultimately, quality beats quantity and so this is narrow win for iOS.

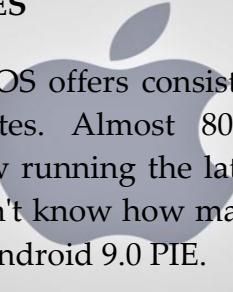
### 3. VOICE ASSISTANTS

Siri is like a straightforward helper for setting calendar, appointments, searching the web, or making calls. Google assistant has an extra layer. It can pre-emptively offer useful suggestions and it has more conversational side that offers up entertaining games and contextual information based on what you're doing. It's smarter and more versatile than Siri.

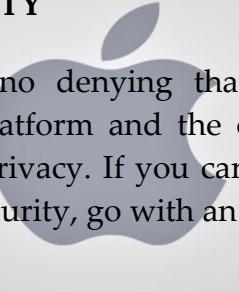
### 4. MAPS

As the newer navigation system apple maps did not have a great start but it has improved significantly. While in google maps, it offers that apple map doesn't is cycling directions. It also has more points of interests and is generally more detailed than Apple maps.

### 5. UPDATES

Apples iOS offers consistent and timely software updates. Almost 80% of all iOS devices are now running the latest version. By contrast we don't know how many android are running latest android 9.0 PIE.

### 6. SECURITY

There's no denying that iOS is the most secure platform and the one that best protects user privacy. If you care about your privacy and security, go with an iPhone.

# SOME IRONIES THAT EXIST IN INDIA:

1. Politicians Divide Us,  
Terrorists Unite Us.
2. Everyone Is In Hurry,  
But  
**NO ONE** Reaches In Time.
3. Priyanka Chopra Earned More  
Money Playing **Mary Kom**,  
Than The Mary Kom Earned In Her  
Entire Career.
4. Most People Who Fight Over  
**Gita And Quran**,  
Have Probably Never Read Any Of  
Them.
5. We Rather Spend More On Our  
Daughter's **WEDDING**  
Than On Her **EDUCATION**
6. The **SHOES** That We Wear Are Sold  
In Air Conditioned Show Rooms,  
The **VEGETABLES** That We Eat Are  
Sold On The Footpaths.
7. It's dangerous to talk to strangers  
BUT It's perfectly okay to **MARRY**  
one.
8. We Live In A Country Where Seeing A  
**POLICEMAN** Makes Us Nervous  
Rather Than Feeling Safe.
9. In IAS Exam, A Person Writes A  
Brilliant 1500 Words Essay About How  
Dowry Is A Social Evil And **CRACKS**  
**THE EXAM** By Impressing Everyone.  
One Year Later His Parents Demand A  
Dowry In Crores, Because He Is An IAS  
Officer..
10. Indians Are Obsessed With Screen  
Guards On Their Smartphones Even  
Though Most Come With Scratch Proof  
Gorilla Glass But Never Bother Wearing  
**A HELMET** While Riding Bikes..

Try To Understand People Before Trusting Them  
**BECAUSE**  
We Are Living In Such A World,  
Where Artificial Lemon Flavour Is Used For  
**"WELCOME DRINK"**  
And Real Lemon Is Used In  
**"FINGER BOWL"**

-Chhagan Prajapati  
( 170020107045 )



# Amazing things to share...

Finding Square of Any No. From 1 to 100.

$$\begin{array}{c} 48^2 \\ \downarrow \quad \downarrow \\ 48-25 = 23 \quad 50-48=2 \\ \downarrow \quad \downarrow \\ 2304 \end{array}$$

2.(example)

$$\begin{array}{c} 58^2 \\ \downarrow \quad \downarrow \\ 58-25 = 33 \quad 58-50 = 8 \\ \downarrow \quad \downarrow \\ 3364 \end{array}$$

To Find Square Root of a Number: Ex. Square root of 4096:

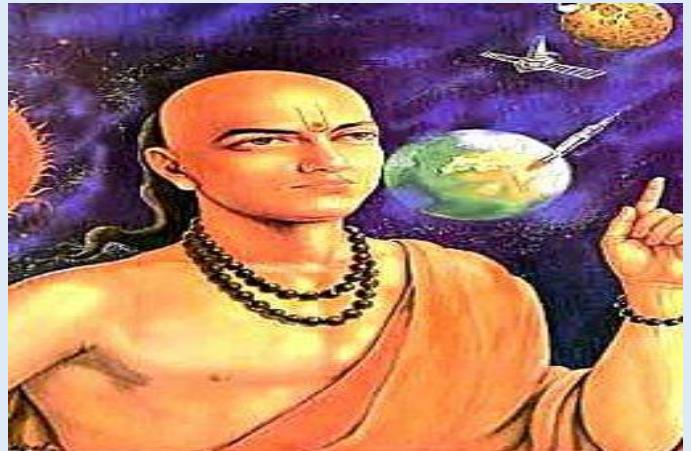
Here the one's digit is having 6, so we will find square of which numbers from 1 to 9 are having 6 in the ones digit place which will be 4 and 6. So either 4 or 6 will form the one's digit of the square root of 4096.

⇒ Now we will find square of which number from 1 to 9 is the closest to the last two digits of 4096 i.e. 40 which will be  $6^2 = 36$ . So either 64 or 66 can be the square root of 4096.

⇒ Now multiply this 6 with its next number 7 which will come as 42. As 40 is smaller than 42, hence the smaller number 64 will be the desired square root.

## The Great Mathematician : Aryabhatta

Here are some facts about him you must know.



1. Aryabhatta was one of the first Indian mathematicians and space exploration experts.
2. Aryabhatta composed numerous numerical and cosmic treatises; among these, 'Aryabhatiya' was his first major work.
3. He formulated a brilliant technique for finding the lengths of chords of circles with half chords as opposed to the full chord strategy utilized by Greeks.
4. He also came up with an approximation of pi ( $\pi$ ) and determined that  $\pi$  is irrational.
5. He was the first mathematician to give what later came to be known as the tables of sine, cosine, versine, and converse sine to four decimal spots, which brought forth trigonometry.
6. He also provided the circumference and measurement of the Earth and the radius of the orbits of 9 planets.



# Upcoming Technologies

## 1. Chatbots

Recently, new tools designed to simplify the interaction between humans and computers have hit the market: Chatbots or Virtual Assistants. In banking, chatbots and virtual assistants are some of the industry's newest tools designed to simplify the interaction between humans and computers.



A chatbot is an artificial intelligence (AI) software that can simulate a conversation (or a chat) with a user in natural language through messaging applications, websites, mobile apps or through the telephone.

## 2. LEAP MOTION

The Leap Motion Controller is a small USB device that plugs into your computer. Using LED lights and camera sensors, the Leap Motion Controller scans an area of roughly 8-cubic feet (2x2x2) above the device. It tracks both hands and all 10 fingers as they move through the open space between you and your computer, the special software detects your hands and fingers and translates the data into information for your computer.



With the release of the Orion software, the Leap Motion Controller can now be used with VR headsets such as the Oculus Rift and HTC Vive.

### 3. Air to fuel

Carbon Engineering (CE) has developed a technology to scrub carbon dioxide directly from atmospheric air, and to use this carbon dioxide, as well as water and renewable electricity, to directly synthesize liquid fuels such as gasoline, diesel, or jet. This overall approach is called "Air to Fuels".



### 4. 5G

5G is going to be a new mobile revolution in mobile telephone market. Because of 5G technology the customers can be offered approximately priceless handset to its customers. One of the biggest advantages of 5G is, it has excellent capability to support both software and consultancy. 5G network will provide high connectivity because of switch and router technology. If we will compare 5G with other generation mobile phones, it is obvious that 5G has some extraordinary features and advantages. 5G has better coverage area and high data rate at the edge of the cell, It has low battery consumption, Availability of multiple data

transfer path, Around 1 Gbps data rate is easily possible, Security is more, Energy efficiency and spectral efficiency are good.

A LOOK INTO  
THE FUTURE

5G

### 5. Eye tracking

Eye tracking refers to the process of measuring where we look, also known as our point of gaze. These measurements are carried out by an eye tracker, that records the position of the eyes and the movements they make. Eye tracking records our point of gaze and our eye movements in relation to the environment and is typically based on the optical tracking of corneal reflections, known as pupil center corneal reflection (PCCR).

#### Screen-based eye trackers

Screen-based devices require respondents to sit in front of a monitor and interact with screen-based content. Although these devices track the eyes only within certain limits , the freedom of movement is still sufficiently large for respondents to be relatively unrestricted.



# Compile the Codes....

## 1. Guess my number game

```
main()
{
    int high = 100000;
    int low = 0;
    int guess = 1;
    int myguess;
    char reply;

    printf("The Game of 20 Questions\n");
    printf("Think of a number between 0 and
    %d\n", high);

    while (high > low)
    {
        /* make a guess */
        myguess = (high + low) / 2;
        printf("Guess %d: Is your number
        higher than %d? ", guess++, myguess,
        high, low);

        /* get your response */
        scanf(" %c",&reply);

        if (reply == 'y')
            low = myguess = myguess + 1;

        else
            high = myguess;
    }

    printf("Your number is %d!\n", myguess);
}
```

## 2. Addition without '+' operator

```
int add(int x,int y)
{
    if(y==0)
        return x;
    else
        return add(x^y,( x & y ) << 1);
}
```

## 3. Find the Output!!!!

```
#include <stdio.h>

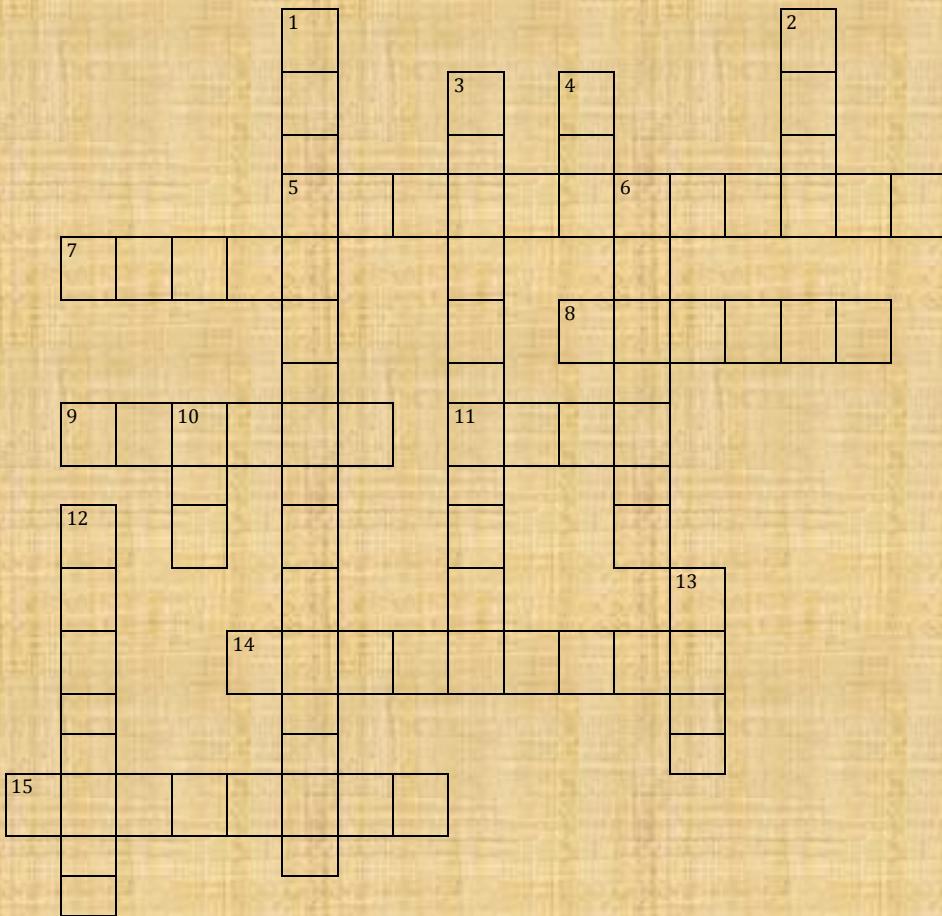
main()
{
    int a,b,c;
    int count = 1;
    for (b=c=10;a="-FIGURE?,UMKC,XYZHello
    Folks,\TFy!QJu ROo TNn(ROo)SLq SLq
    ULo+\UHsUJqTNn*RPn/QPbEWS_JSWQ
    AIJO^\NBELPeHBFHT}TnALVIBLOFAkH
    FOuFETp\HCStHAUFAGcEAelcln^r^r\\t
    ZvYxXy\T|S~Pn SPm SOn TNn
    ULo0ULo#ULo-W\Hq!WFs
    XDt!"[b+++21];)
    for( a-- > 64 ; )
        putchar ( ++c=='Z' ? c = c/ 9.33^b&1);
    return 0;
}
```

OR

Just Scan it.....  
( run it in online 'c' compiler)



# Just check your IQ



## Across

5. What is it called when you have more than one app open at the same time.
7. It is temporarily stored on your computer.
8. An unauthorised user able to access information and misuse information.
9. A hardware device that allows you to connect several computers and other devices to a single internet connection.
11. To load and initialise the operating system on computer.
14. Where your software, documents and other files are stored.
15. It has the ability to store, retrieve and process data. Also it is an electronic device that manipulates information or data.

## Down

1. A technology that superimposes computer generated image on user's view of real world, thus providing a composite view.
2. A wireless ethernet connection.
3. What is the computers main circuit board.
4. Smallest unit of measurement in computing.
6. If your battery isn't charged then the problem may be that your\_\_\_\_\_ isn't pulled in. fill in the blank with the best vocabulary.
10. Short for Universal serial bus.
12. A method by which user access and save or pull down software or other files to their own computers.
13. Apps that are still under development.

ANSWER....



# *Samay*

*Ye Khel hey SAMAY ka,  
Na ye iska Na ye usska.*

*Aaj accha, kal kaccha,  
SAMAY ka jawab bada saccha.*

*SAMAY ke samne tu hey baccha,  
Bure SAMAY me chheen jayega bacha  
kuchaa.*

*Dukh ko apna ke, sukh ke sapne sajake,  
SAMAY ko apna Bana ke.*

*SAMAY mukhote utarti hey,  
Sab ke asli rang, chehre samne laati hey,  
Sabak bi sikhati hey.*

*Ye Khel hey SAMAY ka,  
Na ye iska Na ye usska.*

*--Harshil oza*

## *Paint Your Life*

*Life is like a piece of art,  
It requires lots of heart.*

*Choose your paint and your brush,  
Take your time, avoid the rush.*

*Before you paint, choose your theme,  
Don't be afraid, to follow your dream.  
It's alright, to make a mistake.  
Your painting is real, it's not fake.*

*Look at your painting, don't be crying,  
Begin again, keep on trying.  
Your painting is never fully complete,  
Enjoy the process, make sure it's sweet.*

*--AnitaPoems*

# TESLA

Tesla was founded in 2003 by a group of engineers who wanted to prove that people didn't need to compromise to drive electric – that electric vehicles can be better, quicker and more fun to drive than gasoline cars. Today, Tesla builds not only all-electric vehicles but also infinitely scalable clean energy generation and storage products.



Tesla designed the world's first ever premium all-electric sedan from the ground up – Model S – which has become the best car in its class in every category. A record 0-60 mph acceleration time of 2.28 seconds as measured by Motor Trend. In 2015, Tesla expanded its product line with Model X, the safest, quickest and most capable sport utility vehicle in history that holds 5-star safety ratings across every category from the National Highway Traffic Safety Administration.

Completing CEO Elon Musk's "secret master plan," in 2016, Tesla introduced model 3, a low-priced, high-volume electric vehicle that began production in 2017.

To create an entire sustainable energy ecosystem, Tesla also manufactures a unique set of energy solutions, Powerwall, Powerpack and Solar Roof, enabling homeowners, businesses, and utilities to manage renewable energy generation, storage, and consumption.

Electric cars, batteries, and renewable energy generation and storage already exist independently, but when combined, they become even more powerful – that's the future we want.



(TESLA SUPERCHARGER STATION)

Superchargers have the ability to charge the car in about 30 minutes.  
There are a total of 1,441 supercharger stations with 12,888 superchargers.

**CEO : ELON MUSK (OCT 2008–)**

**FOUNDED : 1 JULY 2003, SAN CARLOS, CALIFORNIA, UNITED STATES**

**HEADQUARTERS : PALO ALTO, CALIFORNIA, UNITED STATES**

# BEST APPLICATIONS FOR ANDROID

## 1)Fluid Navigation Gestures:



Navigation gestures have become quite popular in the last year or so, and in case your smartphone doesn't support them, or you don't like their implementation, well, there's a new app on Play Store that may interest you. The name of this app is 'Fluid Navigation Gestures'.

## 2)Otter Voice Notes:



Otter is a smart note-taking app that empowers you to remember, search, and share your voice conversations.

Otter creates smart voice notes that combine audio, transcription, speaker identification, inline photos, and key phrases. It helps business people, journalists, and students to be more focused, collaborative, and efficient in meetings, interviews, lectures, and wherever important conversations happen.

## 3)Google Opinion Rewards:



The first thing you have to do once you download this tool is answer a few basic questions about yourself.

When there's a questionnaire available, you receive an alert telling you that you can fill it out whenever you like. In the best cases, you can receive enough to purchase something from Google's store.

## 4)1.1.1.1:



Nearly everything on the Internet starts with a DNS request. DNS is the Internet's directory. One-touch setup to make your Internet more safe and private. 28% faster than the next fastest public resolver.

## **SARCASMS ON THE WAY.....**

- Sometimes I need what only you can provide: your absence.

~ Ashleigh Brilliant

- Marriage has no guarantees. If that's what you're looking for, go live with a car battery.

~ Erma Bombeck

- We always hold hands. If I let go, she shops.

~ Henny Youngman

- If you're too open-minded, your brains will fall out.

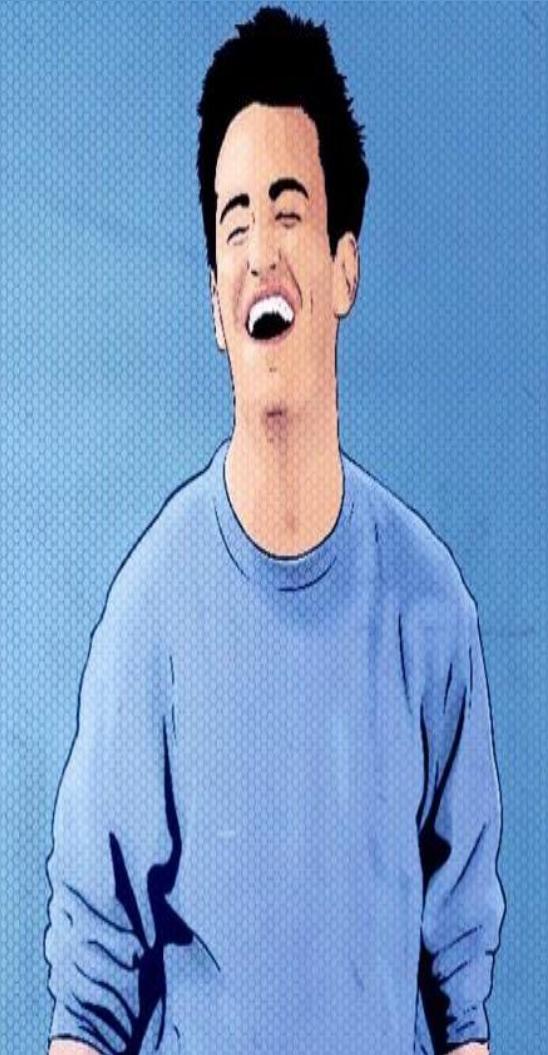
~ Lawrence Ferlinghetti

- Two things are infinite: the universe and human stupidity; and I'm not sure about the universe.

~ Albert Einstein

- Be careful about reading health books. You may die of a misprint.

~ Mark Twain



**BORED AS HELL??**

**HERE ARE SOME SUGGESTIONS FOR  
YOU**

### **1.Read the Books.**

There's a book lying around your home that you've never read...this are some suggestions.

-The girl on the train

-The book thief

-The great gatsby

**2)Just go on a walk, sometimes it is healthy and also wealthy habit to give time to yourself.**

**3)Take a bath. Why not? let yourself relax. Also you can take a power nap to kill the boredom.**

**4)Pour a glass of water and drink it because dehydration can make you feel sluggish.**

## TECH TREASURES

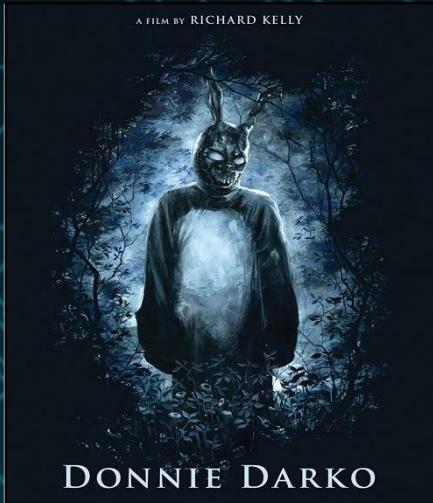
- "Technology is nothing. What's important is that you have a faith in people, that they're basically good and smart, and if you give them tools, they'll do wonderful things with them." - Steve Jobs
- "Every once in a while, a new technology, an old problem, and a big idea turn into an innovation." - Dean Kamen
- "Technology, like art, is a soaring exercise of the human imagination." - Daniel Bell
- "Social media is not about the exploitation of technology but service to community." - Simon Mainwaring
- "To master a new technology, you have to play with it." - Jordan Peterson

## tech jokes

- Q: What is the biggest lie in the entire universe?  
A: "I have read and agree to the Terms & Conditions"
- Q: How does a computer get drunk?  
A: It takes screenshots.
- Q: Why was the cell phone wearing glasses?  
A: It lost its contacts.
- If you understand English, press 1. If you do not understand English, press 2.  
Recording on an Australian tax help line.
- I tried to say, "I'm a functional adult," but my phone changed it to "fictional adult," and I feel like that's more accurate.
- Have you heard of that new band "1023 Megabytes"? They're pretty good, but they don't have a gig just yet.

# HAVE YOU WATCHED YET...

A FILM BY RICHARD KELLY



DONNIE DARKO

## 1)DONNIE DARKO :-

Donnie Darko, an awkward teenager, befriends Frank, a figure in a bunny costume only he can see, who informs Donnie that the world will end in 28 days, 6 hours, 24 minutes and 12 seconds.

IMDb :- 8.1/10

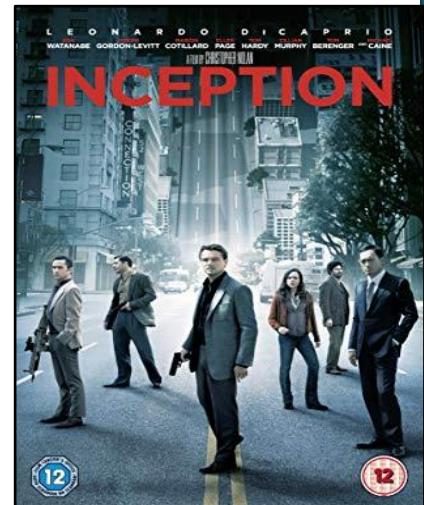
Directed by :- Richard Kelly

## 2)INCEPTION :-

Cobb steals information from his targets by entering their dreams. He is wanted for his alleged role in his wife's murder and his only chance at redemption is to perform the impossible, an inception.

IMDb :- 8.8/10

Directed by :- Christopher Nolan

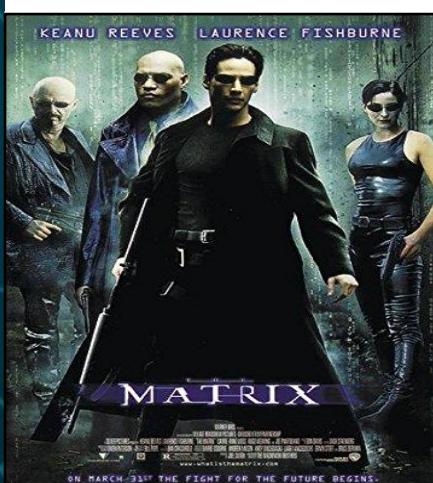


## 3)THE MATRIX :-

Thomas Anderson, a computer programmer, is led to fight an underground war against powerful computers who have constructed his entire reality with a system called the Matrix.

IMDb :- 8.7/10

Directed by :- Lana Wachowski, Lilly Wachowski

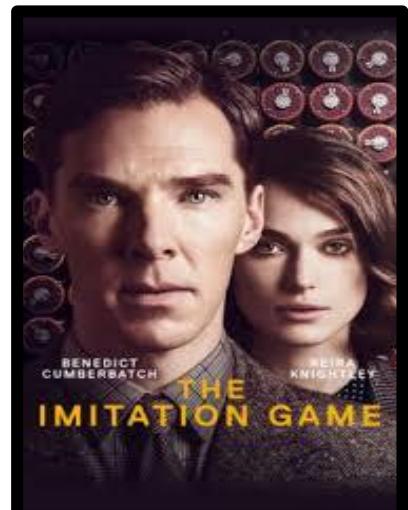


## 4)THE IMITATION GAME :-

British mathematician Alan Turing joins the cryptography team to help decrypt the Enigma code, but builds his own machine that is a prototype of the modern computer to decipher German codes.

IMDb :- 8/10

Directed by :- Morten Tyldum



# HAVE YOU WATCHED YET...



## 5)INTERSTELLAR :-

In the future, Earth is slowly becoming uninhabitable. Ex-NASA pilot Cooper, along with a team of researchers, is sent on a planet exploration mission to report which planet can sustain life..

**IMDb :- 8.6/10**

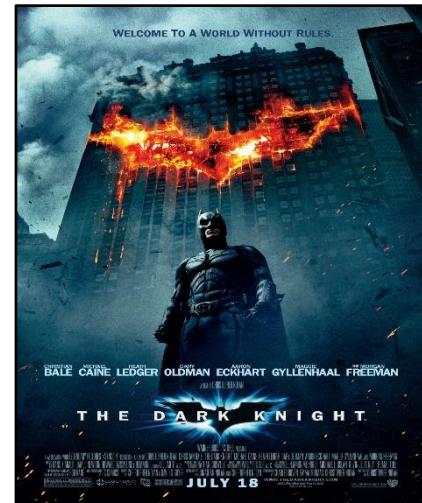
**Directed by :- Christopher Nolan**

## 6)THE DARK KNIGHT :-

After Gordon, Dent and Batman begin an assault on Gotham's organised crime, the mobs hire the Joker, a psychopathic criminal mastermind, who wants to bring all the heroes down to his level..

**IMDb :- 9/10**

**Directed by :- Christopher Nolan**

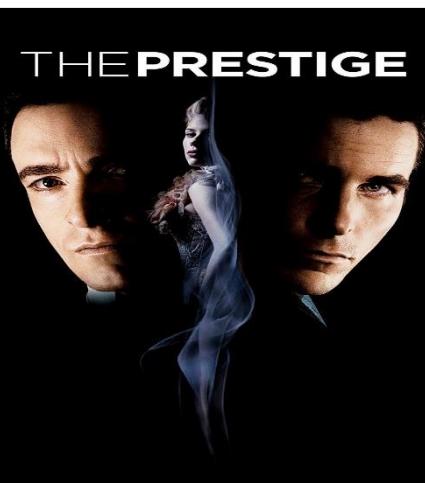


## 7)THE PRESTIGE :-

Two friends and fellow magicians become bitter enemies after a sudden tragedy. As they devote themselves to this rivalry, they make sacrifices that bring them fame but with terrible consequences.

**IMDb :- 8.5/10**

**Directed by :- Christopher Nolan**

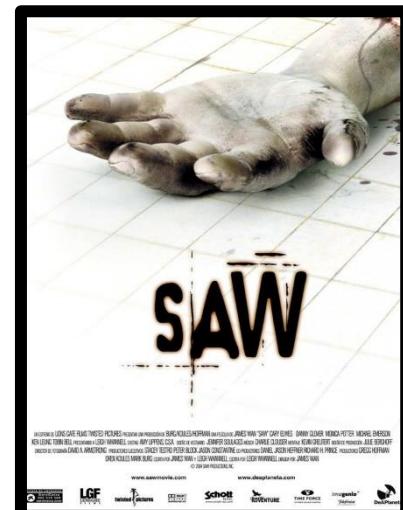


## 8)SAW :-

Two men awaken to find themselves on the opposite sides of a dead body, each with specific instructions to kill the other or face consequences. These two are the latest victims of the Jigsaw Killer.

**IMDb :- 7.6/10**

**Directed by :- James Wan**



# TECHNOSPARX 2019



## ABOUT TECHNOSPARX

Technology, Ideas and Innovations.

Technosparx is an initiative of AIT campus to nurture the budding developers with technical skills and competitiveness to prove dexterous edge over the others.

Technosparx is the Finest Platform for the Ingenious Minds to Show Their Talents In Technical Field & come together to put their skills to test. It is an assortment of various technical & non-technical events to honor the student's interest, competencies and skills. It Aims to Motivating Students to

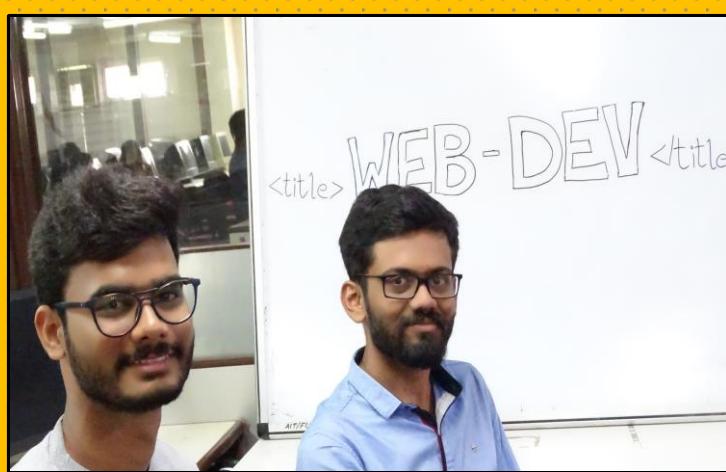
Come Together and Share Their Enthusiasm and Love for Technology. It provides an opportunity to the students, where in they can exhibit their technical competence, knowledge, skill set and excel.

📍 Ahmedabad Institute Of Technology  
Nr.VasantNagar Township,  
Gota-Ognaj Road,  
Ahmedabad-380060  
Gujarat,India.

[www.technosparx.in](http://www.technosparx.in)

*"Science of today is the technology of tomorrow"*

-Edward Teller



# KITE FESTIVAL



# NAVRATRI-2018



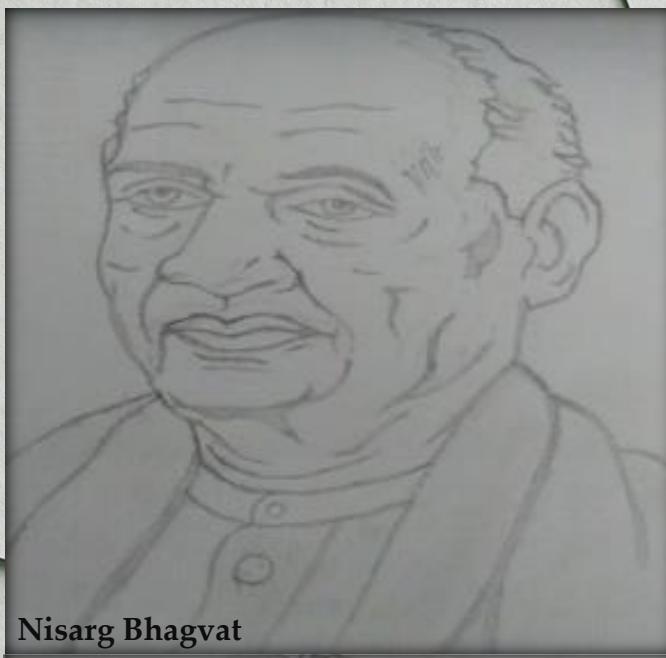
# DAY CELEBRATION -2018



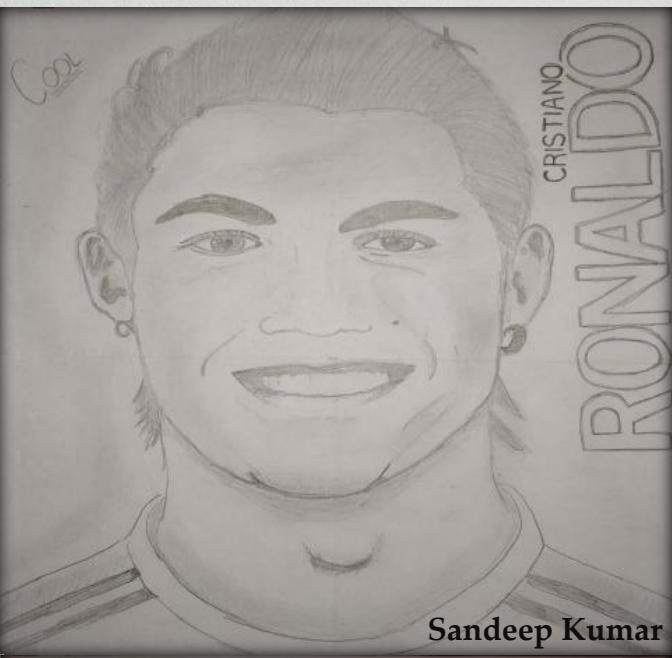
# SPORTS DAY CELEBRATION



## Visual Treats (Sketches)



Nisarg Bhagvat



Sandeep Kumar



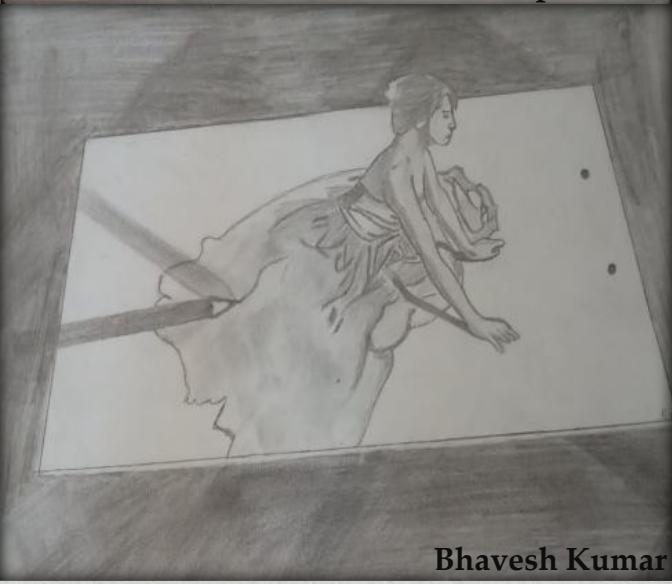
Nisarg Bhagvat



Sandeep Kumar



Bhavesh Kumar



Bhavesh Kumar

# OUR STUDENTS PLACED IN



iFour Technolab Pvt. Ltd.  
Sustainable Solution



# STUDENT MAGAZINE

## COMMITTEE



Juhil Sangani  
Sem-4 CE



Chhagan Prajapati  
Sem-4 CE



Chirag Fabyani  
Sem-4 CE



Sahilkhan Sipai  
Sem-4 CE



Yash Patel  
Sem-4 CE



Kirtan Patadia  
Sem-4 CE

## FACULTY EDITORIAL TEAM

- DR. Ajay N Upadhyaya
- PROF. Parinda N Prajapati
- PROF. Rupal D Raviya
- PROF. Bansari K Thakkar