



FemBit



Summer 2019—A Newsletter by Department Of Computer Engineering Government Polytechnic for Girls, Ahmedabad

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Institute Vision

To carve a brighter prospect for the nation through excellence in technical education for fostering skills, ethical values and environmental consciousness among girl students while undertaking existing and forthcoming challenges.

Institute Mission

- To nurture technical and creative skills through quality education.
- To strengthen industries interaction.
- To impart real life problem solving skills.
- To foster care for sustainability of environment and importance of social responsibility among girl students.

Department Vision

To instill technical skills among students through excellence in education and develop them as computer professionals for forthcoming challenges with moral values, environmental and societal consciousness.

Department Mission

- To impart quality education for developing technical skills.
- To create awareness on emerging trends and technologies.
- To cultivate a sense of social responsibility with ethical and strong moral values.

Message from Institute's Head



Dear Readers, Government Polytechnic for Girls started in 1968 with the aim to provide globally competent skilled girls technocrat in the field of Engineering as well as non technical areas like fashion designing. Initiating something new is always motto of institute. It is my great pleasure for the initiation taken by almost all departments to publish departmental newsletter. A concept behind these newsletters is to disseminate knowledge, skill and information amongst all stake holders. Students, Faculty members and Industrialists related to all diploma branches that are functioning at this institute gets platform to share the upcoming technologies, events in the department and achievement of students and faculties by these newsletters. It is the synergetic approach to transit from better to the best.

-Principal

Message from Department's Head

Dear Readers, It is bliss for our department for the newsletter "FemBit" Summer-2019 issue. This will provide platform for all stakeholders to work in a group. At this stage, I would like to thank all the stake holders for their supports in publishing this newsletter by any means. It is a good platform for stake holders to share technological, innovative, creative and forth coming development in field of computer.

I again acknowledge the efforts put by my students team and faculty members including all the stake holders for this issue of "FemBit".

R.M.Shaikh
H.O.D. Computer Engg.

About Department

Our department offer undergraduate Diploma program for girls only in Computer Engineering. We are affiliated with Gujarat Technological University (GTU) Ahmedabad .This undergraduate program prepare skills undergraduates. Our curriculum mainly covers both Hardware and Software courses. We focus on Outcome Base Education (OBE). Our department provide very good learning environment. Students acquire skills and knowledge through classrooms and laboratories. The department insures that students are motivated to acquire fundamental as well as advance knowledge in this continuously advancing field.

Faculty Members

Sh. R.M. Shaikh
(Head Of Department)

&

Smt. J.J. Karagthala

Smt. J.D.Trivedi

Smt. D.S.Singh

Smt. A.I.Rangrej

Smt. N.R.Sheth

Smt. P.P.Patel

Ku. D.S.Baldev

Smt. S.G.Langnoja

Smt. R.K.Pandya

Smt. V.R. Ratwani

Smt. K.D.Virani

Smt. Z.R.Shah

Sh. D.M. Gohel

(LECTURERS)

Technology Trend

KOTLIN

-Android Programming Language

Kotlin is a statically typed, general-purpose programming language with type inference. It is widely used to develop Android application. Kotlin is designed to interoperate fully with Java, and the JVM version of its standard library depends on the Java Class Library, but type inference allows its syntax to be more concise. Kotlin mainly targets the JVM but also compiles to JavaScript or native code. Kotlin is sponsored by JetBrains and Google, through the Kotlin Foundation. The reason for Kotlin's popularity is because of the unique features that it possesses. i.e. **Concise, Interoperability, Feature-rich, Easy, Less error-prone.**

```

public class User {
    private String firstName;
    private String lastName;

    public User(String firstName, String lastName) {
        this.firstName = firstName;
        this.lastName = lastName;
    }

    public void setLastName(String lastName) {
        this.lastName = lastName;
    }
}

```

```

class User {
    var firstName: String? = null
    var lastName: String? = null
}

```

Student Achievements

University Exam Winter-2018

1st Semester

SPI out of 10

PANDYA GNEYA MILANBHAI - 9.86
PITRODA KHUSHI PRAVINBHAI - 9.55
THAKKAR DHARA MANISHKUMAR - 9.55
TIYA NILESH MEHTA - 9.55
SHAH SHRUVI JATINBHAI - 9.41

3rd Semester

SPI out of 10

SHARMA TRIPTI BRIJESH - 9.84
CHOKSI NEER ANIRUDDH - 9.77
PANDYA PRIYANSHI RAJESHKUMAR - 9.61
JETHWA JHANAVI DINESHBHAI - 9.55
THAKKAR ZEEL SANDIPKUMAR - 9.55

5th Semester

SPI out of 10

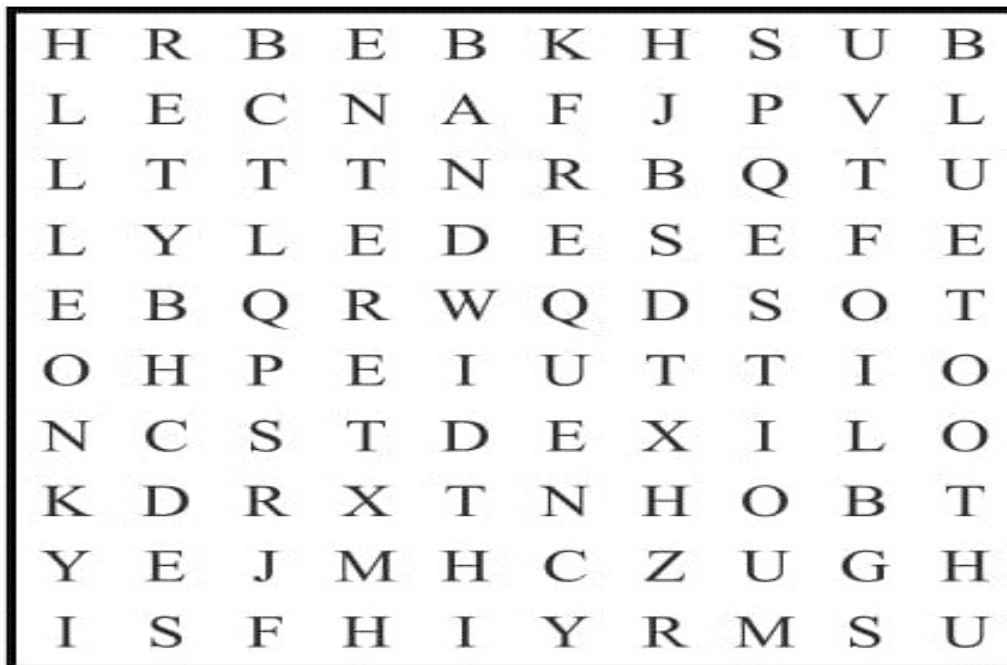
RUSHANGI SANGHAVI - 10
SHARMA TRISHA BRIJESH - 10
DHOLARIA DHWANI KANTILAL - 9.83
MEHTA PALAK JIGNESH - 9.83
RUTVI RAJESH - 9.83
VYAS ASHEETI BHARGAV - 9.83

TechFun

Activity 1

Find me in below box:

1. Amount of data that can be transferred from one point to another within a network in a specific amount of time, is known as : _____
2. Number of cycles per second is known as: _____
3. A standard for the short-range wireless interconnection of mobile phones, computers, and other electronic devices. Known as : _____
4. When you want to go in a new line in a document you press : _____
5. A group of binary digits or bits (usually eight) operated on as a unit. _____
6. Binary digit is known as : _____



TechFun

Activity 2

Choose appropriate Answer:

1. The basic architecture of computer was developed by
 A. John von Neumann B. Garden Moore C. Charles Babbage D. Blaise Pascal
2. Which protocol provides e-mail facility among different hosts?
 A. TELNET B. SMTP C. SNMP D. FTP
3. GUI Stands for
 A. Graph User Interface
 B. Graphical User Interface
 C. Graph Universal Interface
 D. Graph Unique Interface
4. What is smallest unit of the information?
 A. A bit B. A byte C. A block D. A nibble
5. What is the decimal equivalent of the binary number 10111?
 A. 33 B. 21 C. 23 D. 26

Ans. 1.A 2.B 3.B 4.A 5.C



TRAINING DETAIL

Faculty Name	Training Name	Duration	Place
J. J. KARAGTHALA	Web Application Development With Open Source Framework	18/05/2019 to 22/05/2019	RCTI, Ahmedabad
J. D. TRIVEDI	Web Application Development With Open	18/05/2019 to 22/05/2019	RCTI, Ahmedabad
D. S. SINGH	Web Application Development With Open	18/05/2019 to 22/05/2019	RCTI, Ahmedabad
D. S. BALDEV	Network Administra-	06/05/2019 to	AVPTI, Rajkot
R. K. PANDYA	Network Administra-	06/05/2019 to	AVPTI, Rajkot

Proposed Important dates for forthcoming term

Activity	SEMESTER - 3 rd & 5 th		SEMESTER - 1 st	
	From	To	From	To
ACADEMIC				
Term Date	17/06/2019	16/10/2019	01/08/2019	20/12/2019
Teaching phase-1	17/06/2019	06/09/2019	01/08/2019	11/10/2019
Attendance review-1	05/09/2019	06/09/2019	10/10/2019	11/10/2019
Partial Term work Evaluation	03/09/2019	07/09/2019	05/10/2019	09/10/2019
Mid-Sem. Exam-1	09/09/2019	16/09/2019	14/10/2019	18/10/2019
Mid-Sem-1 Exam Result	23/09/2019	---	25/10/2019	---
Teaching phase-2	17/09/2019	16/10/2019	21/10/2019	20/12/2019
Attendance review-2	30/9/2019	1/10/2019	18/11/2019	19/11/2019
Mid-Sem. Exam-2 (5 th)	3/10/2019	10/10/2019	—	—
Mid-Sem. Exam-2 (3 rd)	10/10/2019	16/10/2019	—	—
FINAL Attendance review	10/10/2019		10/12/2019	
Final Term work Submission	10/10/2019	16/10/2019	10/12/2019	12/12/2019
Practical Exam. (Sem-1/3)	10/10/2019	16/10/2019	10/12/2019	12/12/2019
Practical Exam. (Sem-5)	As per GTU		—	—
Co-Curricular Activities (Industrial Visit / Workshops / Seminars / Expert Lecture)	Activities		Sem 5/3	Sem 1
	Seminar		June-3 rd Week	Sep- 3 rd Week
	Expert Lecture		July-1 st Week	—
	Workshop		June-4 th Week	—
	Orientation		—	1 st Day of Term
ACADEMIC REVIEW/FEEDBACK SCHEDULE				
Academic Review-1	13/8/2019	14/8/2019	3/10/2019	4/10/2019
Mid Sem Feedback of ALL Students on Faculty Performance	13/8/2019	14/8/2019	3/10/2019	4/10/2019
FINAL Academic Review	10/10/2019	16/10/2019	10/12/2019	12/12/2019
Feedback of Students on Faculty Performance	10/10/2019	16/10/2019	10/12/2019	12/12/2019
Course End (Sem-1/3) Exit Survey (Sem-5)	10/10/2019	16/10/2019	10/12/2019	12/12/2019
HOLIDAYS – 12th August 2019,15th August 2019,17th August 2019, 2nd Sep 2019,11th Sep 2019, 2nd Oct 2019, 2nd & 4th Saturday of month.				
VACATION – 24th Oct 2019 - 13th Nov 2019				
Extra-Curricular Activity	21/6/2019	Yoga Day Celebration	1 st week October	Gandhi Week
	2 nd week October	Gopi Raas	3 rd week October	Rangoli Competition
Note – * All parents/guardian are welcome to meet Course faculties for feedback of their child's progress on 1 st and 3 rd working Saturday of every month except holidays.				
This calendar is prepared by taking proposed GTU academic calendar as reference.				



As on 16th April, 2019 Computer Department has arranged Techno Sarita– 2019, a technical project fair of final year students. The projects were developed by the students during last year on various topics and using various technologies. The projects were short listed by the faculties of department. These shortlisted projects were presented for the review of experts from Industry and Engineering Colleges. The experts selected three of the best projects.

1. Autonomous RC car 2. Fashion wheel 3. Foodie

Expert Panel:

Mr. Rajesh Sardhara, Web Designer, Creart, Ahmedabad

Mr. Krunal Jani, Branch Head CEO, Way to Web, Ahmedabad

Ms Hardi Shah, Android Developer, Silverwing Technologies, Ahmedabad.



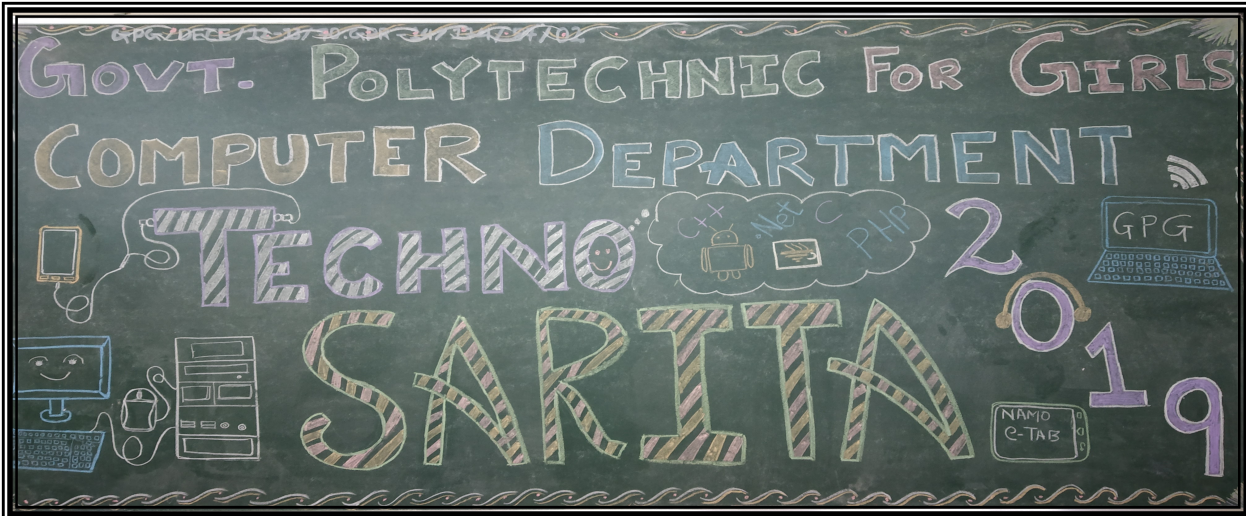
AUTONOMOUS RC CAR

166140307098 KHUSHI RAVAL

166140307100 RIDDDHI JOTANEEYA

A prototype model of “Autonomous RC Car”, which will detect obstacles, traffic signals and stop signs. Autonomous cars or self-driving cars are vehicles that guide themselves without the human input. It involves the use of mechatronics and Artificial Intelligence (AI) to control the vehicle.

This autonomous car is the prototype to the self-driving cars which is the advanced technology.



FASHION WHEEL

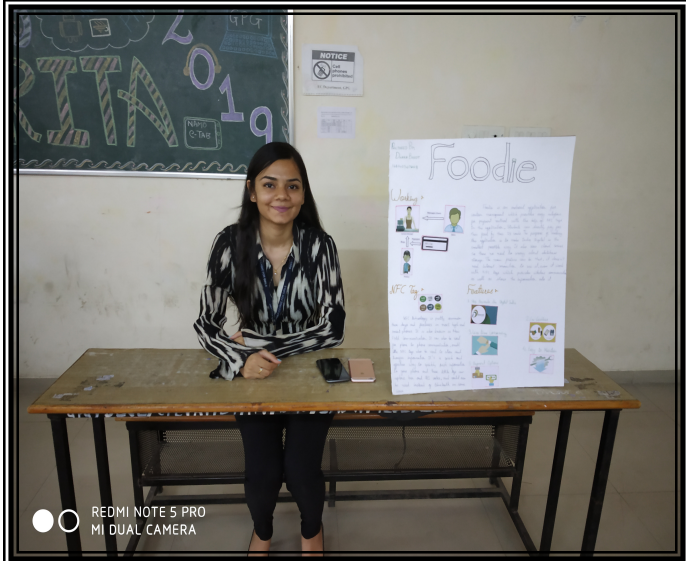
166140307021 SHREYA DALWADI H.
 166140307026 DHWANI DHOLARIA K.
 166140307027 URVI DOBARIYA R.
 166140307028 AMISHA DOMADIYA J.

FashionWheel.com is website that provides feature to create a virtual wardrobe on our website by upload their clothes. User can hire a designer for their virtual wardrobe to approve their request, the designer will be able to access virtual wardrobe. Designers can upload their sketches/Designs that are viewed by the users and they can also order the designs of designer.

FOODIE

166140307008 DHARA A. BAROT

The main feature of this application is that people don't need to buy any external card for transaction they can directly pay by their ID cards with the help of NFC tags. It can be used in different places like school canteen, college canteen, office canteen or any organization's canteen. Basically it is a replacement of Credit card or debit card for payment.





FemBit

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Government Polytechnic for Girls
Ahmedabad.

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Under
The Commissionerate Of Technical Education
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Government Of Gujarat
Affiliated with Gujarat Technological University
Ahmedabad

A Newsletter Of The Department Of Computer Engi-
neering at The Government Polytechnic for Girls

Ahmedabad

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Government Polytechnic for Girls

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