FemBit

Winter - 2019

A Newsletter Of The Department Of Computer Engineering
at Government Polytechnic for Girls-Ahmedabad

Institute Vision

To carve a brighter prospect for the nation through excellence in technical education for fostering skills, ethical values and environmental consciousness among girls 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.*

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Our Vision

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

Our 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*

In this Issue ...

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Acknowledgement

The Department Of Computer Engineering at Government Polytechnic for Girls, Ahmedabad feels thrill to present it's newsletter viz "FemBit" to the genuine stakeholders. This newsletter "FemBit" is started with an objective of sharing and spreading divergent activities of Department Of Computer Engineering. We would also like to focus on new developments in Computer field, latest ongoing and upcoming trends in technology, involving institute and department ongoing and upcoming events as well as memory of events previously held.

We consider this newsletter "FemBit" one of the best way to appreciate the students, faculty members and stake holders for their achievements. We hope, this newsletter provides necessary motivation to the stake holders as well as very much helpful to update us of fast growing Computer field.

Finally, we would like to expand our deepest gratitude to all members who directly or indirectly involved with their valuable efforts in the commencement of the newsletter "FemBit". We know that without grace of all mighty GOD things have not been possible, so here is the first version of "FemBit" (Winter-2019).

Words from Institute Leader......

Dr. Ushma Anerao

Dear Readers,

Government Polytechnic for Girls started in 1964 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

Team Computer (Faculties)....

Under the leadership of

Sh. R.M. Shaikh

Team Members

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. Gohil

Smt. K.R.Srivastava

Smt. P.R.Sharma

Words from Department Leader...

Dear Readers,

It is bliss for our department to commence the first newsletter "FemBit" Winter-2019. This will provide platform for students as well as faculty members and other stake holders including computer industries and alumnae of this department to share their knowledge views and achievements.

At this crux, I would like to thank my Team Computer participated in commencement of this newsletter by editing, proof reading this bit and implementing my idea and realizing thought in to reality with quite committed platform for technological, innovative, creative skills and forth coming development in field of computer as well as its diversification for enhancing lifelong learning and project management with team building skills. "FemBit" is a news letter publish twice in a year at every end of the semester. I again acknowledge the efforts put by my students team and faculty members to turn "FemBit" into reality.

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

Department Of Computer Engineering

About the Department ....

Our department offer undergraduate diploma program only for girls in Computer Engineering. We are affiliated with Gujarat Technological University (GTU) Ahmedabad. This undergraduate program prepare skills undergraduates for successful careers in computer engineering. Our curriculum mainly focused on 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.

Some salient features of the department ....

- Full strength of faculty.
- Experienced faculty.
- Majority of faculty is female.
- Maximum faculty are holding master's (MTech / M.E.)degree.
- Teachers as a mentor.

Some value aided activities ....

- Expert lectures for Industry Interaction.
- Personality development and Soft skills training.
- Technical finishing school for professional skills development.

Forthcoming Events ....

- "Khelotsav 2020" Sports day will be arranged in fourth week of January.
- Food festival will be arranged in end of January.
- "Anubhuti "Cultural festival will be arranged in 2nd week of February.
- Women's Day will be celebrated on 8th March 2020.
- Techno Sarita will be conducted in first week of April 2020.

Department Of Computer Engineering

Out Standing Students
In
University Exam (Summer-2019)

Obtained Full SPI (Semester Performance Index - 10 Out Of 10)

Final (6th) Semester ....

BHAVSAR STUTI PRAFULBHAI

DALWADI SHREYA HARSHADKUMAR

DESAI NIRJA MANISH

DHOLARIA DHWANI KANTILAL

JHA SWETA BIJAYKUMAR

MEHTA DARSHEE RAJENDRABHAI

RUSHANGI SANGHAVI

SHARMA TRISHA BRIJESH

Fourth (4th) Semester ....

ZALA AASHVI ASHOKBHAI

Second (2nd) Semester Students Obtained Rank at State University Level Among All Branches

PITRODA KHUSHI PRAVINBHAI	10 SPI -Rank 7th (SPI wise)
TIYA NILESH MEHTA	10 SPI -Rank 8th (SPI wise)
VIRAMGAMA KRISHNA BHAVESHKUMAR	10 SPI -Rank 9th (SPI wise)
PANDYA GNEYA MILANBHAI	9.86 CPI - Rank 6th (CPI wise)

Congratulation to all brilliant stars ......

Department Of Computer Engineering

Trends That Will Drive The Future Of Technology ….

- Oracle offers Cloud services from India Datacentre.
- Amazon has created an open source toolkit for Automated Machine Learning, called AutoGluon, designed to make it easier for software developers to take advantage of deep learning models in their applications.
- Reorganizing a computer chip: Transistors can now both process and store information.
- Researchers have discovered a new method for turning nearly any object into a data storage unit. This makes it possible to save extensive data in objects like shirt buttons, water bottles or even the lenses of glasses and then retrieve it years later.
- The next step according to scientific studies is Quantum computers that will bring about a new wave in computer technology promising a revolution in the world .
- More business are experimenting with Quantum computing via IBM's Q Network, including Delta, Anthem, Goldman Sachs and Wells Fargo.

- **5G data networks**

    The 5th generation of mobile internet connectivity is going to give us super-fast download and upload speeds as well as more stable connections. While 5G mobile data networks became available for the first time in 2019.

- **AI-as-a-service**

    Artificial Intelligence (AI) is one of the most transformative technological evolutions of this era. 'Artificial Intelligence in Practice', most companies have started to explore how they can use AI to improve the customer experience and to streamline their business operations. This will continue in 2020, and while people will increasingly become used to working alongside AIs, designing and deploying AI-based systems though it is an expensive proposition for most businesses.

Faculty Development Programs ...

- ❖ R. M. Shaikh & P. P. Patel have taken training on "Ethical Hacking and Forensic Investigation".
- ❖ J. D. Trivedi has attended STTP on "Research Methodology" and also taken training on "Outcome based education in professional education". She has also attended training on "NBA Accreditation" for outcome based curriculum.
- ❖ D.S. Singh has attended training on "NBA Accreditation"
- ❖ A.I. Rangrej has attended training on "Student Innovation and Start-ups".
- ❖ P. P. Patel has attended "FDP for Entrepreneurship Development".
- ❖ S. G. Langhnoja has attended training on SSIP.
- ❖ S. G. Langhnoja , R. K. Pandya and K. D. Virani has attended training titled Induction Phase -2

Faculty Achievement ....

- ❖ D. S. Singh has achieved her Master's in Computer Engineering this year and submitted her dissertation on "A Novel approach for improving data security in IoT using elliptic curve cryptography" also published paper on the same topic in JETIR journal April-May 2019 edition.

University & Department Announcement .....

- Date of commencement of new term for semester 4 and 6 is 9th December 2019 and for semester 2 is 20th January 2020
- 4th and 6th semester Mid Semester Examination is scheduled from 24/2/2020 to 29/2/2020.
- 1st semester Mid Semester Examination is scheduled from 30/3/2020 to 4/4/2020.
- 4th and 6th semester Re-Mid Semester Examination is scheduled from 1/4/2020 to 8/4/2020.
- 1st semester Re-Mid Semester Examination is scheduled from 14/05/2020 to 20/5/2020.

Department Of Computer Engineering

Activities Inside the Campus .....

✿ **Self Defense Work shop Under Nirbhaya Martial Art Training On 10th December 2019**

The workshop was organized to spread awareness on issues of personal development, safety and self defense. The aim was to prepare the girls to be alert, confident and quick in responding to situations where their security and safety is under threat. *Computer department students actively participated in this activity.*

FemBit

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✸ "FemBit" is published twice in a year by Department Of Computer Engineering - Government Polytechnic For Girls Ahmedabad.

✸ Contact for Queries and Suggestions
   Email – gpg.computer@gmail.com

Newsletter Editorial Committee ....

Editor In-Chief - Sh. R.M. Shaikh

Editor   - Smt. D.S.Singh

Members -

Smt. J.D. Trivedi	Smt. A.I.Rangrej	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. Gohil	Smt. K.R.Srivastava	Smt. P.R.Sharma

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