



Faculty of Engineering & Technology

Prof. (Dr) Vijay Kumar Singh
Dean

Faculty of Engineering & Technology
SGT University, Gurugram, Haryana-122505

Status of Faculty

- ▶ Faculty members : 35
- ▶ Non-Teaching staff : 09

Courses Offered	Strength of students
B. Tech	566
M. Tech.	10
Ph.D.	04
BCA	64
MCA	07
Total	651

Assessment & Exams

FET systematically conducted three Class test per Semester

Mid term exam was conducted (14th March,2018 – 17th March,2018)

Internal and external exam and Viva conducted by SGTU Examination cell

Theory Course

Class Test	Mid Term	Attendance	Assignment	GD/PPT/S IS etc.	Total Internal
25 Marks	50 Marks	10 Marks	5 Marks	10 Marks	100 Marks

Practical Course

Practical File	Conduct	Viva	Total
5	10	10	25

Note: Total Internal and practical converted into required marks as per Assessment

Teaching activities

No. of classes/Hours	Course completion	Teaching methodology used (percentage of each method used)	Details of Choice based credit system
40-45	100%	SIS = 35% SS = 10% PBL = 06 % SGD = 05% Tutorials = 04% Industry Exposure = 10% Practical Exposure in labs = 30%	Introduced Choice based credit system for 2017-18 batch students

- ▶ **SIS:** Student Interaction Session
- ▶ **SS:** Student Seminar
- ▶ **PBL:** Problem Based learning
- ▶ **SGD:** Student Group Discussion

Academic Improvement Plan



- Ensuring 100% regular classes.
- Course completion for Practical Classes 100%.
- Summer semester initiation.
- Remedial classes for weak students.
- Extra summer classes for detained students.



- Strengthening Mentor – Mentee exercise
- Syllabus updation as per current scenario
- Quality intake
- Mentor / Senior research professor in each department



- Faculty board meeting on weekly basis to discuss issues.
- Quality Intake of students and Faculty.
- Class – committee meeting.

Examination and evaluation

Courses	Formative Assessment	Summative Assessment
B. Tech.	<ol style="list-style-type: none">1. Assignment2. Class Test3. Seminar4. Presentation5. Projects6. Audio – visual learning7. Quiz competition	Mid term Examination conducted by FET & End term examination conducted by the university (Theory& Practical)
M. Tech.		
BCA		
MCA		
Ph.D.		

Analysis of results

Dept	Till that SEM.	FET/SGTU	Total Students	Clear Students current Semester	% All clear
ME	3 rd SEM	FET	53	28	53%
Civil	3 rd SEM	FET	23	14	60%
CSE	3 rd SEM	FET	110	87	79%
ECE	3 rd SEM	FET	13	7	53%
Civil	5 th SEM	FET	16	8	50%
ME	5 th SEM	FET	24	15	62%
CSE	5 th SEM	FET	32	20	62%
BCA	3 rd SEM	FET	31	25	81%
MCA	3 rd SEM	FET	07	07	100%
M.TECH	3 rd SEM	FET	05	05	100%

Other Activities

Industry Visits

1. **Munjal Kiri Industries Pvt. Ltd. Manesar, Gurgaon (21st Jan,2017)**
2. **Centre for e-Governance (CeG), Ministry of Electronics and Information Technology (MEIT), New Delhi (30th Jan,2017)**
3. **Doordarshan Bhavan New Delhi on (24th March, 2017)**
4. **Yamaha Motors, Greater Noida (04th April, 2017)**
5. **Coventry coils-o-matic, Rewari (9th Sep,2017)**
6. **Huawei (15th Sep,2017)**
7. **Public Works Department site at Sector 19, Dwarka (26th Sept,2017)**
8. **Indian mobile congress, Pragati Maidan Noida (11th Oct, 2017)**
9. **Parle Bahadurgarh (28th Oct,2017)**
10. **Maruti Suzuki India Ltd., Gurugram Industry Visit (7th Feb,2018)**
11. **Hema Engineering India Ltd., Gurugram, Industry Visit (10th Feb,2018)**
12. **Auto-Expo 2018 Visit (13th Feb,2018)**
13. **ALP Nishikawa, Gurugram (9th March,2018)**
14. **Expressway Tower (3rd April 2018)**

Workshops

1. **One day workshop on Mechanical Design by Cetpa (27th Jan,2017)**
2. **One day workshop on Robotics (13th Feb,2017)**
3. **Five days IOT Workshop by INTEL (25th Sep,2017 to 30th Sep,2017)**
4. **One day workshop on 3-D printing (25th September,2017)**
5. **One day Workshop on Cyber Security by INVADEX (27th Sep,2017)**
6. **5 days workshop on “The three R’s [Reliability, Robustness and Resilience] of Engineering Systems: Synthesis and Application”.(9th Oct-13th Oct,2017)**
7. **Survey Camp from 9th Jan,2018 to 13th Jan,2018**
8. **One day Workshop on Solid works (29thJan,2018)**
9. **One day National workshop on “Cyber Crime” by CSIR (30th March,2018)**
10. **One day workshop on Cisco Networking by Elan & Nvision-IIT Hyderabad, (6th April, 2018 & 21st April 2018)**
11. **One day workshop on Game development by Picktail (16th April,2018)**

Seminars/Guest Lecture

- 1. Seminar on 3-D modeling, finite element analysis and computational fluid dynamics.(18thAugust,2017)**
 - 2. Seminar on “Programmable Logic Controller (PLC) & SCADA” was conducted by Department of Electronics & Communication Engineering, Faculty of Engineering on 21 September 2017.**
 - 3. Seminar on Career Orientation (What during B.Tech and after B.Tech) (30th Jan,2018)**
 - 4. Seminar on Studies in Abroad by IDP in hotel Crown Plaza Gurugram (2nd Feb 2018)**
 - 5. Seminar by Mentor Graphics on VLSI Design, 08 March 2018**
 - 6. Guest Lecture by Dr. Ayan Karmakar, Scientist F, Semiconductor Laboratory, Mohali, 23 March 2018.**
 - 7. Guest Lecture by Mr. Umesh Arya, Sub Divisional Engg Manager (IPSTAR), Satellite Earth Station, Sikandrabad, (04 April, 2018).**
 - 8. Seminar on “New Edge of Engineering Designs” (7th April, 2018).**
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Coding Competition

1. **Tech Gig competition by Times of India (12th Sep 2017)**
2. **Mega event by Braintech Elan & Nvision-IIT Hyderabad (21st April 2018)**

Alumni Meet

13th January 2018

Projects

S No.	Project Title
1	Seismic Dampers and Base Isolation
2	Green Building
3	Smart Dustbin
4	IOT based Air pollution monitoring
5	Wind Energy Harvesting using Piezo-Transducer
6	Water Recycling System
7	Lightweight & Folding Bridge
8	Different types of Bridges
9	Voice Controlled Wheelchair
10	Dynamic Voltage Restorer
11	Solar E-Rickshaw
12	Bidirectional Visitor Counter
13	Smart Car Parking
14	Intelligent Drunk & Drive Prevention System
15	Piezoelectric Footstep Energy Generator

Projects (contd..)

S No.	Project Title
15	Piezoelectric Footstep Energy Generator
16	Water Purification Process
17	Spinning Twirl Trolley
18	Multi-Purpose Mechanical Machine (MPMM)
19	Pneumatic Stairs
20	All in One Power Bank
21	GATMOS
22	Intelligent Burglar Alarm System
23	Online Assessment System
24	Performance Evaluation System
25	RFID Security System
26	Short Animation Movie
27	Steganography
28	Unmanned & Safe Railway System
29	Water Supply Management
30	Home/Car/Office Assistant

Projects (contd..)

S No	Project Title
31	Arduino Car via Bluetooth
32	Generation of Energy from Train
33	Sine Bar
34	Multi-level Highway Crossing

Under Process Projects

S No	Project Title
1	Time Table Generator
2	Portable Bridge
3	Smart Pond
4	Portable Room
5	Regenerative Power Braking
6	Hybrid Pneumatic Car
7	Energy Efficient Bicycle with solar panel and manual transmission
8	Bio-mass Pallets
9	Feedback form in ERP based on Android

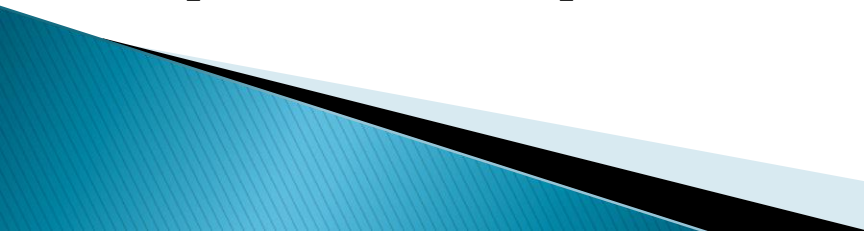
Under going Research Projects

S No	Project Title
1	Monitoring of Noise Pollution at Marble Cutting/Wood Carpentry shops and its non-auditory effects on the workers.
2	Development of Bulk Metal Matrix Composites via Solid State Processing Technique

Student Participation outside SGT University Gurugram

S No	Title of event	Venue	Type of event	Result
1	FICE, Bangalore	Bangalore	Technical	4 students in top 20
2	DPGITM	Gurgaon	Techno cultural	PC to 2 students
3	NES Innovation	Pune	Technical	Registered 4 teams
4	CSI fest	VIPS New Delhi	Techno Cultural	1st position of 4 students, 2nd position 1 student and 9 students PC
5	Dance Competition	FIJI(South Pacific)	Cultural	4th position by 1 student
6	Shadows on page	MRIU Faridabad	Poetry Competition	1st position and 6 students PC
7	Code Jam	Online by Google	Technical	Registered 2 teams
8	GYTI 2018	Gandhi nagar(Gujarat)	Technical	Registered 1 teams
9	Road Safety Survey	NATPAC, Gurgaon	Survey	10 Participation Certifiacte
10	Cricket Champions Trophy	Delhi Technical Campus, Bahadurgarh, Haryana	Sports	Won the trophy.

Extra-curricular activities and mentor-mentee program

- **Sports:** FET organized a 3-day sports meet (18th – 20th April 2018) for SGT University
 - **Cultural Programs:** Students and Faculties actively participated in events like Symphonious and Holi Milan Samaroh and Fresher's Party.
 - **Aptitude Test:** Aptitude Building is taught as a regular course to all the students.
 - **Mentor-Mentee Session:** one lecture per week (in the Timetable)
 - **Excursion Tour:** 3 Excursion trips to Manali, Kasol and Kheerganga were organized for students in January, Feb and March 2018.
 - **Others:** FET faculties and students also took part in organizing and participation in various events organized by Faculty of Engineering and Technology under the banner of SWACHHATA PAKHWADA WEEK from 18th September to 24th September, 2017
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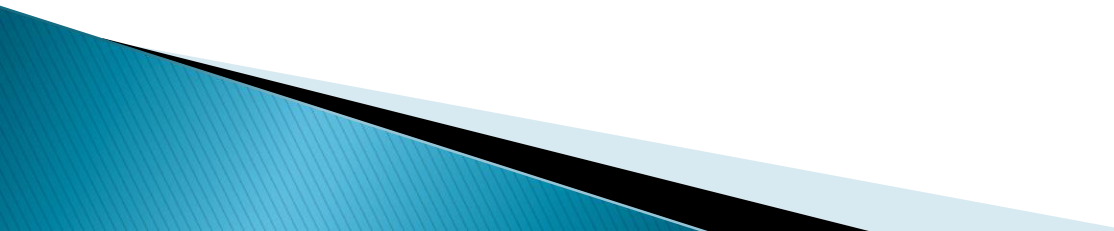
Research Publications/patents

Department	Publications(2017-2018)	Conferences/ Seminars/ Workshops	Thesis/Dissertation
FET	53 Research Paper	01(International Conference)	01 M. Tech.
Books	3		
Total:	56	01	01

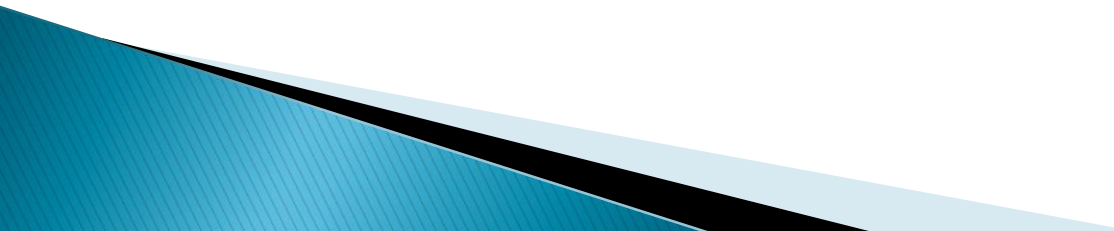
NITTTR Workshops from JAN 2017 to April 2018

S.No.	Topic	Date
1	PHP & MySQL	23/01/2017
2	WIRELESS NETWORKS	22/05/2017
3	INNOVATIVE APPROACH FOR EMPLOYMENT GENERATION IN INDIA	24/07/2017
4	OPEN SOURCE TECHNOLOGIES	13/11/2017
5	SOFT COMPUTING USING MATLAB	5/3/2018
6	FACULTY DEVELOPMENT : PLANNING AND MANAGEMENT	12/3/2018

Tie-Ups/ Centre of Excellence

- **University of Berkeley**
 - **ORACLE (IoT & Web Application Development)**
 - **APPLE (iOS Mobile Application Development)**
 - **IBM (Cloud Computing & IoT, Big Data Analytics)**
 - **CISCO NETWORKING LAB**
 - **D-Link LAB**
 - **INTEL LAB (IoT)**
 - **SAP**
 - **Trimble(BIM)**
 - **Renewable Energy Lab to be set up under an MoU to be signed with SuKam**
 - **SMC Pneumatics is going to set up Automation Lab.**
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Proposed activity in next 2 months

- ▶ Students will be on summer internship.
 - ▶ Students will be learning new software.
 - ▶ **FDP Organized:** 1 week FDP from IBM on IoT will be organized
 - ▶ **Industrial visits:** Visit To Satellite Earth Station, Secunderabad has been planned
 - ▶ **Workshops:** A workshop on English Language and Personality Development is planned.
 - ▶ **Conference / Seminar:** Two IEEE conferences at Galgotias (GUCON18) and Chitkara University will be attended by ECE and CSE faculty members.
 - ▶ **MoUs / Tie Ups:** Possible MoU with Sukam for Renewable Energy Lab.
 - ▶ **Journal Publications:** Research Publication is a continuous process in FET.
 - ▶ **Placement:** Our students have already been placed in companies like HCL., Huawei.
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Preparedness for next semester

- ▶ **Courses distributed to faculty members.**
 - ▶ **Time table is under process for regular classes which will be commence from 6th August-18**
 - ▶ **Faculty members has been directed to upload their papers for marking attendance regularly on ERP.**
 - ▶ **External experts will be invited for extension lectures**
 - ▶ **Educational visits/Industrial visits will be organized.**
 - ▶ **Excursion Trip will be organized.**
 - ▶ **PTM will be organized twice in the semester.**
 - ▶ **Faculty has been directed to use newer teaching methodologies as per IQAC guide lines in their student teacher learning process.**
 - ▶ **Classroom will be assigned according to the semester.**
 - ▶ **Students will be informed for their regular classes.**
 - ▶ **Induction program and fresher party will be organized.**
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