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# **PROGRESS REPORT FOR THE ACADEMIC YEAR 2017-18**

# MADINA EDUCATION AND WELFARE

Madina Education & Welfare Society was registered as an educational and welfare society. This Society Is a Four Decade Old Society Established Under the aegis of Founder Secretary Mr. K. M Arif Uddin to provide Quality and Modern Education among all the sections of society.

# **GLOBAL INSTITUTE OF ENGINEERING & TECHNOLOGY**

Global Institute of Engineering and Technology is a self-financed non-minority institution established in the year 2006 with a vision to promote quality education

Global Institute of Engineering and Technology is managed by Madina Education and Welfare Society which is a four-decade old society. Global Institute of Engineering and Technology offers B. Tech in Electronics and Communication Engineering, Computer Science and Engineering, Civil Engineering, Mechanical Engineering and Masters in Embedded Systems, Computer Science and Engineering and Structural Engineering. GIET is also approved Nodal Centre for running 18 skill development courses under Pradhan Mantri Kaushal Vikas Yojna.

# VISION

To produce Technologically Skilled Engineers of World Class Competency to address Global Challenges.

# **MISSION**

M1: To offer quality education that is affordable and accessible to rural students and to develop a technological temper in students and cater to industrial requirement

M2: To provide academic freedom, generate, disseminate, and preserve knowledge with inter disciplinary approach in order to meet advanced industrial standards

M3: To enable students to master innovative methodologies for research and skills required to become an entrepreneur.

**M4:** To emphasize on human values, professional ethics, social responsibility and environmental sustainability.

# **1.1 ACADEMIC ACTIVITIES**

# **1.1.1 ACADEMIC PROGRAMS OFFERED**

The details of the programs offered intakes for the academic year 2017-18 arelisted in Table 1 and Table 2.

Table	1
Lane	L

1

S.No	Level of the	Program Name	Shift	Branch/ Specialization	Year of Introduction	Approved Intake
		Ivanie		specialization	Introduction	шаке
1	Program	D T 1	т		2000	(0
1.	UG	B. Tech	Ι	Civil Engineering	2009	60
2.	UG	B. Tech	Ι	Electrical and	2006	60
				Electronics		
				Engineering		
3.	UG	B. Tech	Ι	Mechanical	2011	60
				Engineering		
4.	UG	B. Tech	Ι	Electronics and	2006	60
				Communication		
				Engineering		
5.	UG	B. Tech	Ι	Computer	2006	60
				Science and		
				Engineering		
					Total	300
7.	PG	MTech	1	Structural	2013	24
				Engineering		
8.	PG	MTech	1	Embedded	2012	24
				Systems		
					Total	48
9.	PG	M.B. A	Ι		2009	60

Shift	No.of UG Programs Offered	No.of PG Programs Offered	Other PG program
Ι	5	2	1

#### Table 3

Level of	Dragnam	Total		Enrolment	
Program	Program	Intake	Regular	Lateral Entry	Total
UG	B.Tech	300	112	33	145
PG	MTech	48	36	0	36
PG	MBA	60	8	0	8

#### Table 4

	AICTE	JNTUH	Enrolment		
Program	Approved Intake	Approved Intake	Regular	Lateral Entry	Total
B. Tech(ECE)	60	60	26	06	32
B. Tech(CSE)	60	60	37	00	37
B. Tech(EEE)	60	60	09	06	15
B. Tech(CE)	60	60	26	09	35
B.Tech(MECH	60	60	14	12	26

#### Table 5

Program	AICTE Approved Intake	JNTUH Approved Intake	Admitted Intake
MTech(ES)	24	24	12
MTech(SE)	24	24	24
M.B.A	60	60	08

### 1.1.3 Curriculum

The Global Institute of Engineering & Technology is committed for transformations in engineering education. As per the guidelines of UGC and JNTUH, the regulations and syllabus are revised. From the A.Y. 2015-16, all the programs are offered in Choice Based Credit System (CBCS).

The Regulations and Syllabus of UG and PG Engineering Programs and MBA Program are revised. The regulations are called as R15 Academic Regulations of Global institute of Engineering & technology. The R15 Regulations follows Semester based, Choice Based Credit System.

# 1.1.4 Institutional Achievements

## **The Institutional Achievements**

- Received AICTE Grant Under PMKVY of 3,40,000/-
- Students Participated in various activities of sports.

#### 1.1.5 **Faculty Development and Achievements**

The faculty of the institute are well qualified and experienced with different specializations, they contributed always in the all-round development of the institute. The following details pertaining to the faculty organized and participated in various workshops in national and international wide.

1.1.5.1	Faculty Development Programs Organized				
	F	Faculty organized Workshops/Semi	nars/Training Pro	grams	
Fable 6			_	-	
<b>S.</b>	no	Name of the PD/ATP	Dates (From -	Number of	
			to)	Participants	
		TEACHING ST	AFF		
1.		Importance of Chemical Sciences in	03 <sup>rd</sup> July 2017 to	10	
		Engineering	8 <sup>th</sup> July 2017		
2.		Sustainable Energy Development	20 <sup>th</sup> Nov 2017 to	38	
			25 <sup>th</sup> Nov 2017		
3.		Typhoon HIL User Certification -	09 <sup>th</sup> Oct 2017 to	21	
		Level 1	13 <sup>th</sup> Oct 2017		
4.		Innovative Research Prospects on	5 <sup>th</sup> Dec 2017 to	17	
		WSN	9 <sup>th</sup> Dec 2017		
5.		Reverse Engineering-3D Printing	07 <sup>th</sup> Dec 2017 to	22	
			13 <sup>th</sup> Dec 2017		
6.		Recent trends in Engineering	18 <sup>th</sup> Dec 2017 to	12	
		Physics	23 <sup>rd</sup> Dec 2017		
7.		Data Mining Techniques	14 <sup>th</sup> May 2018	20	
			to 19 <sup>th</sup> May		
			2018		
		NON-TEACHING	STAFF		
8.		Advanced Microsoft Office Skills	04 <sup>th</sup> Dec2017 to	21	
		for Supporting Staff: With Hands-	09 <sup>th</sup> Dec 2017		
		On Session			

07<sup>th</sup> Dec 2017 to

13<sup>th</sup> Dec 2017 16<sup>th</sup>April 2018

to 21<sup>st</sup>April

2018

15

30

### Academic Year 2017-18

#### **Faculty Development Programs Participated** 1.1.5.2

Experimentation and Practical

Demonstration in Technical

**Industrial Safety** 

Education

Faculty Participated in Workshops/Seminars/Training Programs:

Table 7

9.

10.

S.no	No. of faculty participated
1	58

# **1.1.6 Student Activities and Achievements**

### **1.1.6.1** Student Academic Activities

The students are trained by experts in their domain courses, new technologies & processes, and human values through Seminars / Guest Lectures/Workshops. The details of thetraining are listed in the Table 8.

S.NO	TITLE	HOST Dept.
1	RECENT TRENDS IN PAVEMENT ENGINEERING	CE
2	CARTOGRAPHY AND DIGITAL MAPPING USING GIS	CE
3	Power electronic converter & its applications	EEE
4	FACTS	EEE
5	Renewable Energy Systems and their utilization	MECH
6	Composite Materials	MECH
7	Signals and Systems using MAT Lab	ECE
8	PCB Design & Fabrication	ECE
9	Machine Learning	ECE
10	Ethical Hacking	CSE
11	Test Automation Frameworks	CSE
12	Cloud Computing	CSE
13	Body Language	H&S
14	Team Building	H&S
15	Importance of Mathematics	H&S
16	Imparting OBE in Professional Education	MBA
17	Quantitative Techniques and Computer Applications	MBA

# 1.1.6.2 Value Added Course

A variety of value-added classes are provided in order to offer supplementary learner centric graded skill-oriented professional instruction, with the main aim of enhancing the employability capabilities of engineering graduates. The details of the valueadded courses are presented in the Table 9.

Table 2	9
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S.no	Year of offerin g	YEAR/SEM	Names of the Add on/Certificate programs with30 or more contact hours
1.		IV/II	Artificial Intelligence
2.		II/II, III-II	OOPS Through Java
3.		I SEM	Digital Land Survey
4.		II SEM	Green Building Technology
5.		II-I	Programming Using Matlab
6.		III-I	Robotics & Intelligence
7.		III-I	VLSI Design Technology
	2017-18		using EDA Tools
8.		IV-I	ANSYS
9.		III-II, II-II	CREO
10.		I-II	Importance of Mathematics

# **1.1.6.3** Industrial visits/ Industrial Trainings

The Industrial Training or Industrial Visits helps the engineering students for enhancing and improving skill set and knowledge of which boost their performance and consequently helping them to meet their career objectives. It is an organized method or activity. The details of the training / visits organized are shown in Table 10. **Table 10** 

S.NO	No. of
	Industrial; Visits
1.	5

### 1.1.6.4

The Management, Faculty and Staff provide the paramount need of the studentapart from academics.

- i) Remedial classes are conducted to improve results
- ii) Counseling and motivating programs by psychologists have been arranged.
- iii) Entrepreneurship guidance and Career counseling is available.

### 1.1.6.5 Mentor and Mentee System

An important measure is to assess the competence level of the students at different stages of 4 years of their study. Such assessment will enable the principal and faculty members to take up the corrective remedial measures to raise the level of competency in respect of weak students to the desired level. The procedure evolved and adopted for the above purpose can be summarized as under:

Students Counseling Scheme is in operation in this institution to counsel, monitor and guide the students from the date of joining in this institution till they complete the degree and leave the institution. Faculty members in each branch are identified to act as a Counselor/Mentor who shall maintain a record of 8 to 10 students allotted to each Faculty. Thus a sense of accountability is instilled in both the Mentor (Faculty) and Mentee (Student).

The duties and responsibilities of Mentors (Faculty Members) are identified as under:

- The mentor will monitor the group of students (3 to 10) allotted to him in all matters of personal growth of the students like behavior, attendance, performance in internal and external examinations and guidance for improvement.
- He will be regularly in touch with the mentees and take the feedback from them about the regularity of classes and their understanding of the subject.
- He will regularly counsel the students who are falling behind in the mid & external exams.
- He will also counsel the students when they remain absent for consecutive three (3) days.
- He interacts with the parents and updates them about the student's progress at the college.
- He provides awareness about credit system and promotion policy.
- He monitors the behavior of the students.

- He motivates the students in attending seminars/paper presentations.
- He shall meet the mentees (Students) once in a fortnight.
- During the monthly meetings, issues related to attendance, understanding of the s u b j e c t, comfort levels in learning and specific record of the students shall be scrutinized and conveyed to the respective HODs to initials remedial or corrective measures.
- HOD's in turn will update the principal about the progress of Mentor-Mentee activity to the principal.
- If required, Mentors are also permitted to visit the house of the students to interact with the mentees and claim conveyance, if any.

Once in a month Principal of the college will take up review meeting with HOD's and mentors branch wise and draw plan of action/remedial measures to be taken up in respect of the issues identified for rectification. In fact, during such meetings three types of students are identified.

- a) Weak students who require remedial/extra classes
- b) Average students who require further motivation
- c) Academically sound good scoring students

# 1.1.6.6 Student Achievements

The achievements of the students for the Academic Year 2017-18 Like MOOCS Courses and Involvement actively in various activities such as workshop, conduct of technical events and so on

# 1.1.7 **Results**

•

The results of I/II/III Year B.Tech. / MTech. / M.B.A. I & II Semester for the academic year 2017-18 under autonomy are presented below in the

Table : 11	1	Ι	B. Tech I Seme	ster	
S.No.	Branch	Intake	No of Appeared	No of Passed	Percentage of Pass
1	CIVIL	60	24	23	95.8
2	EEE	60	9	8	90.2
3	MECH.	60	14	11	90.6
4	ECE	60	26	23	91.9
5	CSE	60	37	34	91.4
	Total	300	110	99	91
Table : 12	2	I	B. Tech II Sem	ester	
S.No.	Branch	Intake	No of Appeared	No of Passed	Percentage of Pass
1	CIVIL	60	24	23	95.8
2	EEE	60	9	8	90.6
3	MECH.	60	14	10	91.6
4	ECE	60	26	24	92.30
5	CSE	60	37	35	94.59
	Total	300	110	100	90.90
Table : 13	3	I	B. Tech I Sem	ester	
S.No.	Branch	Intake	No of Appeared	No of Passed	Percentage of Pass
1	CIVIL	60	35	33	94.2
2	EEE	60	7	5	91
3	MECH.	60	26	24	92.30
4	ECE	60	23	21	91.3
5	CSE	60	17	15	92.0
	Total	300	108	98	91.0
Table : 14	4	I	B. Tech II Sen	nester	
S.No.	Branch	Intake	No of Appeared	No of Passed	Percentage of Pass
1	CIVIL	60	35	33	94.2
2	EEE	60	7	5	91.0
3	MECH.	60	27	24	91.30

4	ECE	60	23	21	91.30
5	CSE	60	17	15	90.6
	Total	300	109	98	92.3
Table : 15	5	II	I B. Tech I Sen	nester	
S.No.	Branch	Intake	No of Appeared	No of Passed	Percentage of Pass
1	CIVIL	60	20	19	90.1
2	EEE	60	17	16	91.6
3	MECH.	60	25	24	91.6
4	ECE	60	14	14	92.3
5	CSE	60	16	16	90.6
	Total	300	92	89	91.8
Table : 16	6	II	I B. Tech II Sei	mester	
S.No.	Branch	Intake	No of Appeared	No of Passed	Percentage of Pass
1	CIVIL	60	20	19	91.3
2	EEE	60	17	17	92.3
3	MECH.	60	24	24	91.7
4	ECE	60	14	13	90.3
5	CSE	60	15	15	91.6
	Total	300	90	89	92.6
Table :17		I M. Tech I S	Semester		
S.No.	Branch	Intake	No of Appeared	No of Passed	Percentage of Pass
1	EMBEDDE D SYSTEMS	24	12	11	91.6
	SE	24	24	23	90.6
	Total	48	36	34	92.6
Table 18		I	M. Tech II Sem	lester	
S.No.	Branch	Intake	No of Appeared	No of Passed	Percentage of Pass
3	EMBEDDE D SYSTEMS	24	12	10	90.6
5	CSE	24	24	22	91.3
	Total	48	36	32	95.3

Table 19	I M.B.A					
S. No.	Sem	Intake	No of Appeared	No of Passed	Percentage of Pass	
1	Ι	25	16	15	90.7	
2	II	24	15	13	91.6	

Table 20	OVE	OVERALL (2017-18) STUDENTS PASS %					
S.No.	Total Strength	Total Completed	Total Pass %				
1	101	94	93.06				

### **1.1.8 Training and Placement Cell Activities**

One of the key areas, we have shifted our focus is training and placement. Training and Placement Cell conducts placement training for III and IV B.Tech and II MBA and II M.Tech Students. It also organizes on campus and off campus placement interviews.

### **1.1.8.1** Placement Training and Drive details

The TPC conducted various placement training programs in the A.Y. 2017-18. The details are listed in Table 26 and Table 27, Task programs are listed in Table28.

S.No	Event
1	Soft skills training program for IV B.Tech students
2	Soft skills training program for IV B.Tech students
3	Soft skills training program for IV B.Tech students
4	Soft skills training program for IV B.Tech students
5	Aptitude and Reasoning Program for IV B.Tech students
6	Aptitude and Reasoning Program for IV B.Tech students
7	Aptitude and Reasoning Program for IV B.Tech students
8	Aptitude and Reasoning Program for IV B.Tech students
9	Aptitude and Reasoning Program for IV B.Tech students
10	Aptitude and Reasoning Program for IV B.Tech students
11	Organizational and Interview skills for IV B.Tech students
12	Organizational and Interview skills for IV B.Tech students
	0

The details of the students placed in the A.Y.2017-18 are shown in the Table 22

1	Cognizant Technology Solutions India Pvt. Ltd- (115/535, Old Mahabalipuram Road, Okkiam, Tripitakan, Chennai- 600 097)	1	B.Tech
2	KARVY - 040-23312454	1	<b>B.Tech</b>
3	Smart Select Solutions Pvt. Limited – 7780581694	10	B.Tech/MBA
4	Sood Towers & Constructions – 9985675050	4	<b>B.Tech</b>
5	CheckMark – 7993750891	6	B.Tech/M.Tech
6	Tech Fluent Solutions Pvt. Ltd – 9849935889	4	B.Tech
7	Data Point Pvt. Ltd - 9884129490, 9642051366	6	<b>B.Tech</b>

	Number of students				
	enrolling	Program	Department		
	into higher	graduated	graduated		Name of program
Year	education	from	from	Name of institution joined	admitted to
				Lords Institute of Engineering	
		B.Tech	CSE	and Technology	M.Tech
	14			Lords Institute of Engineering	
	(The	B.Tech	EEE	and Technology	M.E
	number of			Lords Institute of Engineering	
	students are	B.Tech	CSE	and Technology	M.Tech
	less for the			Lords Institute of Engineering	
	academic	B.Tech	MECH	and Technology	M.Tech
	year 2018-			Lords Institute of Engineering	
	19 as the	B.Tech	CSE	and Technology	M.Tech
	PGCET			Deccan College of Engineering	
2018-	examination	B.Tech	ECE	and Technology	M.E
19	is yet to			Lords Institute of Engineering	
	commence	B.Tech	CSE	and Technology	M.Tech
	and	B.Tech	MECH	CQ University of Australia	M.S
	admissions	B.Tech	CSE	CVR College of Engineering	M.Tech
	are under	B.Tech	CSE	Vasavi College of Engineering	M.Tech
	process in	B.Tech	CSE	Federation University Australia	M.S
	the foreign			Lords Institute of Engineering	
	universities	B.Tech	CIVIL	and Technology	M.Tech
	and still in			Lords Institute of Engineering	
	progress)	B.Tech	CSE	and Technology	M.Tech
				Lords Institute of Engineering	
		B.Tech	CIVIL	and Technology	M.Tech

### Table 23

# 1.2 **Research Activities**

# **1.2.1 Promotion of Research and Facilities**

# **1.2.1.1** Faculty motivation scheme for research

# **Objective of the Scheme:**

The objective of the scheme is to guide faculty members in the effective integration for research projects with the regular curriculum implementation and curriculum enrichment activities

### Scope of the Scheme:

This scheme will apply to all the research and related activities of the institution and activities will include the following.

- Knowledge compilation and communication initiatives for keeping abreast of academic developments such as writing of textbooks or chapters, monographs; developing/updating curriculum, etc.
- Creative activities involving the generation of new innovative ideas, hypotheses, images, performances, including design in any field of knowledge which leads to the development of new knowledge, understanding or expertise;
- Research projects of students and scholars undertaken as part of the curriculum or proposals for enriching it
- Publications, presentations and communication of the research outcomes and related activities

# 1.2.1.2 **Details of Scheme**

### Functions of R&D Cell

- Identification of thrust areas of research in each department of the institution
- Encourage and motivate the various departments faculty to undertake research projects and to scrutinize the proposals before submitting them tofunding agencies
- Identification of physical and human resources to carryout research
- Identify the budgetary requirements and resources for funding the research
- Review the progress of research and offer necessary guidance wheneverrequired
- Monitor and propose the funding from college budget for promotion of research activities
- Identify different organizations/ industries to undertake collaborative research on current topics of mutual interest

### **Research Promotion Policy at GIET**

• Create a Special Institutional Research Wing over viewing all R&D and academic Ph. D. / PG activities.

- Provide laboratory, library/e-library and internet facilities
- Establish department-wise R&D laboratory
- Provide need based financial support for research activities
- Organize workshops, seminars, conferences at national or international level
- Provide incentives and encourage research related activities like reduction in teaching load, duty leave, TA/DA to the faculty for presenting their research activity at various Conferences/Seminars
- Sanction special leave as and when required for good progress of research
- Provide Personal Laptops on concession basis to carry out personal research
- Give due consideration in promotion and salary advancement on paper publication/ Getting patents etc by laying out standards based on citation indices, impact factors, quality of patents etc.

Encourage to write and forward research proposals for financial support to different funding agencies and announce incentives once the project is sanctioned.

### **1.2.2 Suggestions and Recommendations**

# 1.2.2 UGC Guidelines on Research

- ✤ As per the UGC guidelines the faculty should publish their research work in peer reviewed and reputed journals which are approved by the UGC
- Faculty members are advised to apply for patents and process to publish and patent grants.
- Faculty members are encouraged to apply research projects to funding agencies like UGC, AICTE, DST, CSIT and other Government and Non-Government Agencies

The details of research activities and available facilities are shown in Table 29

Table 2	24
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Name of the Department	CSE	ECE	EEE	ME	CE	BSH & MBA
Name ofthe R&D Facility	R&D Cell CSE	R&D Cell ECE	R&D Cell EEE	R&D Cell ME	R&D Cell CE	R&D Cell BSH
No. of Faculty engagedin Research	08	08	04	04	02	02

# 1.2.3 Research Papers Published

Research Publications of Faculty members for the Academic Year 2017-18 are shown in Table 25.

S.NO	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication
1	Effects of MHD and Thermal Radiation on Unsteady Free Convective Flow of a Hybrid Nanofluid Past a Vertical Plate	Mrs.M.Kavith a	H & S	International Conference on Applied Analysis, Computation and Mathematical Modelling in Engineering	2022
2	Utilization of Sugarcane Bagasse Ash as Cement and Robo Sand as Fine Aggregates in M30 Grade Concrete	G. Sandhya Rani	Civil Engineering	International Journal of Scientific Research in Science, Engineering and Technology	2022
3	Experimental Investigation on Strength of Hybrid Fiber Reinforced Concrete	M.Parvez Affani	Civil Engineering	International Journal of Scientific Research in Science, Engineering and Technology	2022
4	Experimental Study on Strength and Durability of Concrete with Partial Replacement of Cement with Granite Slurry and Aggregates with Quartz Stone	M.Parvez Affani	Civil Engineering	International Journal of Scientific Research in Science, Engineering and Technology	2022

5	To Study the Behavior of R.C.C Multy Storey Building Under Earthquake Load by Using Linear Dynamic Analysis (LDA)	G.Sandhya Rani	Civil Engineering	International Journal of Scientific Research in Science, Engineering and Technology	2022
6	Influence of Vertical Irregularities of Various Steel Framed Structures During Seismic Response	G.Sandhya Rani	Civil Engineering	International Journal of Scientific Research in Science, Engineering and Technology	2022
7	Mechanical Properties of Recycled Construction And Demolition Concrete Waste As Aggregate For Structural Concrete	Mrs.K.Vandan a	Civil Engineering	International Journal of Scientific Research in Science, Engineering and Technology	2022
8	Effect of Copper Slag on Steel Fiber Reinforced Concrete and Conventional Concrete	G.Sandhya Rani	Civil Engineering	International Journal of Scientific Research in Science, Engineering and Technology	2022
9	Utilization of Demolished Concrete Waste for New Construction	G.Sandhya Rani	Civil Engineering	International Journal of Scientific Research in Science, Engineering and Technology	2022

	_				
10	An Experimental Study On Mechanical Properties Of Lightweight Aggregate Concrete When Fine Aggregate Is Replaced With Cinder Powder Dolomite Powder	G.Sandhya Rani	Civil Engineering	Anveshana's International Journal of Research in Engineering and Applied Sciences	2022
11	Seismic Evaluation of Existing Structure	G.Sandhya Rani	Civil Engineering	Anveshana's International Journal of Research in Engineering and Applied Sciences	2022
12	Comparative Analysis of G+9 Building by Using Rubber Base and Friction Pendulum Systems in All Seismic Zones	Mrs.K.Vandan a	Civil Engineering	International Journal of Scientific Research in Science, Engineering and Technology	2022

13	Comparative Study of Conventional Concrete and Green Concrete Made Of Fly Ash, Recycled Red Bricks and Recycled Crushed Aggregates	Mrs.B.Sahithi Chandra	Civil Engineering	International Journal for Research in Applied Science & Engineering Technology (IJRASET)	2022
14	Seismic Evaluation of Existing Structure	Mrs.P.Sai Leela Vaishnavi	Civil Engineering	Anveshana's International Journal of Research in Engineering and Applied Sciences	2022
15	Structural Modelling For Tall Framed Buildings	G.Sandhya Rani	Civil Engineering	International Research Journal of Modernization in Engineering Technology and Science	2022
16	EXPERIMENTAL PERFORMANCE ANALYSIS OF A DIESEL ENGINE FUELED WITH BIO FUEL BLENDS AS ALTERNATIVES	Mr.Aamer Sohail	Mechanical Engineering	International Journal of Engineering Research & Technology	2021
17	EXPERIMENTAL PERFORMANCE ANALYSIS OF A DIESEL ENGINE FUELED WITH BIO FUEL BLENDS AS ALTERNATIVES	Mr.Aamer Sohail	Mechanical Engineering	International Journal of Engineering Research & Technology	2021
18	NuMERICAL COMPUTATION OF CNTs WATER BASED NANOFLUID FLOW WITH HEAT GENERATION/ABSORPTI ON PAST AN OSCILLATING VERTICAL PLATE WITH PLATE TEMPERATURE	Mrs.M.Kavith a	H&S	Advanced Trends in Mechanical and Aerospace Engineering	2021

19	STUDY OF TIME DEPENDENT FREE CONVECTIVE KEROSENE-NANOFLUID FLOW WITH VISCOUS DISSIPATION PAST A POROUS PALTE	Mrs.M.Kavith a	H&S	International Conference on Mathematical Sciences and Applications	2020
20	UNSTEADY CNTS KERSOENE NANOFLUID FLOW PAST A VERTICAL PALTE WITH HEAT TRANSFER UNDER THE INFLUENCE OF THERMAL RADIATION	Mrs.M.Kavith a	H&S	International Conference on Mathematical Sciences and Applications	2020
21	NUMERICAL INVESTIGATION OF Ag- Cuo/WATER HYBRID NANOFLUID FLOW PAST A MOVING OSCILLATING CYLINDER WITH HEAT TANSFER	Mrs.M.Kavith a	H&S	WILEY	2020
22	EFFECTS OF INTERNAL HEAT GENERATION AND LORENTZ FORCE ON UNSTEADY HYBRID NANO LIQUID FLOW AND HEAT TRANSFER ALONG A MOVING PLATE WITH NON UNIFORM TEMPERATURE	Mrs.M.Kavith a	H&S	WILEY	2020
23	VEHICLE COLLISION AND AVOIDANCE IN A VEHICULAR AD-HOC NETWORK USING V2I PROTOCOL	G Ahmed Zeeshan	ECE	European Journal of Molecular & Clinical Medicine	2020
24	ENERGY EFFICIENT AND SECURE DESIGN FOR WIRELESS SENSOR NETWORKS USING NETWORK SIMULATOR	G Ahmed Zeeshan	ECE	European Journal of Molecular & Clinical Medicine	2020

25	A NOVEL APPROCH FOR DESIGN AND IMPLEMENTATION OF ENERGY EFFICIENT WIRELESS SENSOR NETWORKS USING NETWORK SIMULATOR	G Ahmed Zeeshan	ECE	European Journal of Molecular & Clinical Medicine	2020
26	MOVING MULTI OBJECT DETECTION AND TRACKING IN VIDEO	G Ahmed Zeeshan	ECE	European Journal of Molecular & Clinical Medicine	2020
27	PRIOR OCCLUSION, PRIOR QUEUE, RESOLUTION DETECTION FOR MULTIPLE-VEHICLE DETECTION & TRACING SYSTEM	G Ahmed Zeeshan	ECE	European Journal of Molecular & Clinical Medicine	2020
28	PERFORMANCE OF AUTOMATIC SMART IRRIGATION SYSTEM USING GSM	G Ahmed Zeeshan	ECE	European Journal of Molecular & Clinical Medicine	2020
29	IOT BASED WIRELESS SENSORS FOR ENVIRONMENTAL MONITOR AND ALERTS	G Ahmed Zeeshan	ECE	European Journal of Molecular & Clinical Medicine	2020
30	DEVICE TO DEVICE COMMUNICATION BASED ENERGY- OPTIMISED RETRANSMISSION METHOD FOR EFFICIENT MULTICAST IN WIRELESS CELLULAR NETWORK	G Ahmed Zeeshan	ECE	European Journal of Molecular & Clinical Medicine	2020
31	Wearable Wireless Sensor System with RF Remote Activation for Industrial Applications	G Ahmed Zeeshan	ECE	International Journal of Recent Technology and Engineering (IJRTE)	2019

32	ATM Crime Prevention and theft Detection model by Wireless Technologies RFID and GSM	G Ahmed Zeeshan	ECE	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019
33	Durability performance of CFRP Shear Strengthened RC T-Beams exposed to Hot Air environment	Franklin F.R. Frederick	Civil Engineering	International Conference on Advances in Sustainability of Materials and Environment (ICASME' 19)	2019
34	Investigation Of Permeability Properties Of High Performance Fiber Reinforced Concrete	Dr. Franklin F.R. Frederick	Civil Engineering	The International Journal Of Analytical And Experimental Modal Analysis	2019
35	Mechanical Properties Of Recycled Construction And Demolition Concrete Waste As Aggregate For Structural Concrete	Dr. Franklin F.R. Frederick	Civil Engineering	The International Journal Of Analytical And Experimental Modal Analysis	2019
36	Experimental study on strength properties of water resistant Structures using fly ash in concrete mix	Dr. Franklin F.R. Fredrick	Civil Engineering	International Journal of Research	2019
37	Performance evaluation of demolished concrete waste and recycled plastic in flexible pavement	Dr. Franklin F.R. Fredrick	Civil Engineering	National Conference on Emerging Technologies and Environmental Sustainability (NCETES'19)	2019
38	Experimental Study on Plastic Waste and Building Material Waste Into Pavement Tiles	Dr. Franklin F.R. Fredrick	Civil Engineering	THINK INDIA JOURNAL	2019

39	Unsteady CNTS Kerosene NANO Fluid flow pasta a vertical plate with heat transfer under the influence of thermal radiation	M. Kavitha	H&S	International Conference on Mathematical Sciences & its Applications	2019
40	Occupational Exposure to Extremely Low Frequency- Electro Magnetic Fields(ELF-EMFS) and Light at Night(LAN) and Breast Cancer in Human Subjects	Kavitha varak, Surender, Ahuja.Y, R. Tiwari	H&S	Internationatio nal Journal of Emerging Technologies	2019
41	Comparison of Different PWM Control Methods for Switched Inductor Quasi-Z- Source Inverter	Mr.Maloth Naresh and Tripathi,	EEE	Journal of Scientific Bulletin Electrical Engineering and Computer Science (Series C), (Accepted).	2019
42	FPGA Based Speed Control and Back EMF Extraction from Line Voltages using IIR digital Filters for BLDCM" Advances in Power & Control Engineering.	Mr.Maloth Naresh and Tripathi, Ramesh kumar	EEE	Springer Journal (GUCON 2019) (Accepted).	2019
43	Power Quality Enhancement using FACTS Device in Transmission System with DPFC" Advances in Power & Control Engineering	Mr.Maloth Naresh and Tripathi, Ramesh kumar	EEE	Springer Journal (GUCON 2019) (Accepted).	2019

44	STUDY ONSEISMIC EFFECT OF FLOATING COLUMNS IN STRUCTURAL PERFORMANCE	D.Soundarya	Civil Engineering	International Journal of Research	2018
45	PROPERTIES OF AGAVE FIBRE REINFORCED CONCRETE	V.Shilpa	Civil Engineering	International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES)	2018
46	ADVANCED MEDICAL BOX FOR DISTANCE PATIENT SUPERVISING USING RTOS	B.KALYANI, G AHMED ZEESHAN, DR.R.SUND ARA GURU	ECE	IJRECE	2018
47	VIDEO STREAMING OVER SOFTWARE DEFINED NETWORKS WITH SERVER LOAD BALANCING	S VINAY KUMAR, G.AHMED ZEESHAN, DR.R.SUND ARA GURU	ECE	IJRECE	2018
48	FALL DETECTING SYSTEM & BODY POSITIONING WITH HEART RATE MONITORING	M. MOUNIKA, G.AHMED ZEESHAN, DR.R.SUND ARA GURU	ECE	IJRECE	2018
49	DESIGN & IMPLEMENTATION OF REMOTELY LOCATED ENERGY MENTOR MONITORING WITH LOAD CONTROL & MOBILE BILLING SYSTEM THROUGH GSM	S VINAY KUMAR, G.AHMED ZEESHAN, DR.R.SUND ARA GURU	ECE	IJRECE	2018
50	ADVANCED ACQUISITION OF GPS & GALILEO SIGNAL USING FFT	MD ALTAF UR RAHMAN,A BDUL	ECE	IJCE	2018

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51	SMART HOME SECURITY USING RASPBERRY PI	AMJAD ALI,ZUBAID AHMED,MD. AWAIS,SK.F AISAL AHMED,SHA IK ASRA TABASSUM	ECE	INTERNATIO NAL JOURNAL OF SCIENTIFIC RESEARCH IN SCIENCE & TECHNOLOG Y	2018
52	ANALYSIS OF TROPOSPHERIC TIME DELAY FOR LAAS OVER INDIAN SUB CONTINENT	ISHRATH UNISA,G.AH MED ZEESHAN,D R. R. SUNDARA GURU	ECE	IJAEEE	2018
53	DESIGN ,SIMULATION AND FABRICATION OF PARABOLIC DOUBLE BIQUAD MICROSTRIP PATCH ANTENNA FOR UWB APPLICATIONS	P.UDAYASR EE,N KRISHNAJY OTHI	ECE	IJRASET	2018
54	DESIGN AND SIMULATION OF PARABOLIC DOUBLE BIQUAD MICROSTRIP PATCH ANTENNA FOR UWB APPLICATIONS	P.UDAYASR EE,N KRISHNAJY OTHI	ECE	IJMTE	2018
55	Significance of Employee Suggestion Systems to Handle Conflicts at Workplace	Dr B Swathi	MBA		2018
56	Performance Appraisal as a facilitator in employee training and development- a holistic study in select organizations	Dr B Swathi	MBA		2018
57	Parallel Support Vector Machines on a Hadoop Framework	Ms. Neha Jadhav	CSE	IJR	2018

58	Comparison of Strength Parameters of M40 Grade of Concrete with partial Replacement of cement with Red Mud and Hydrated Lime	G.Sandhya Rani	Civil Engineering	International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES)	2018
59	Non-Linear Time history Analysis of Tall Structures for Seismic Load Using Damper under Different Soil Conditions	Mrs.K.Vandan a	Civil Engineering	International Journal of Research	2018
60	Conveyed observer-based cyber security control of complex set of connections	Noore Ilahi	CSE	IJRAR	2018
61	Information storage auditing service in cloud computing: challenges, methods and opportunities	Rayees Fathima	CSE	IJRAR	2018
62	Design and Analysis (Static Strain and Static Stress Analysis) of Piston Using AL 2014 and Reinforcement as Limonite Powder	Jagannath Pattar	Mechanical Department	1st International Conference on Recent Trends in Engineering, Materials, Management and Sciences (ICRTEMMS- 2018), SBIT, Khammam, India 25-27 Oct. 2018	2018

63	Experimental study on mechanical properties of limonite as reinforcing element on properties of Al 2014 based MMC (By varying weight % of FeTio3)	Jagannath Pattar	Mechanical Department	1st International Conference on Recent Trends in Engineering, Materials, Management and Sciences (ICRTEMMS- 2018), SBIT, Khammam, India 25-27 Oct. 2018	2018
64	WEAR AND FATIGUE BEHAVIOUR OF LIMONITE AS REINFORCING ON ELEMENT ON PROPERTIES AL2014 BASED MMC	Jagannath Pattar	Mechanical Department	1st International Conference on Recent Trends in Engineering, Materials, Management and Sciences (ICRTEMMS- 2018), SBIT, Khammam, India 25-27 Oct. 2018	2018
65	Study on Behavior of Ilmenite as Reinforcing Element on Properties of Al2014 Based MMC by Stir Casting Method	Jagannath Pattar	Mechanical Department	International Journal of Research in Advent Technology,	2018
66	Design and Analysis (Static Strain and Static Stress Analysis) of Piston Using AL 2014 and Reinforcement as Limonite Powder	Vundi Sai Chandra	Mechanical Department	1st International Conference on Recent Trends in Engineering, Materials, Management and Sciences (ICRTEMMS- 2018), SBIT, Khammam, India 25-27 Oct. 2018	2018

67	Experimental study on mechanical properties of limonite as reinforcing element on properties of Al 2014 based MMC (By varying weight % of FeTio3)	Vundi Sai Chandra	Mechanical Department	1st International Conference on Recent Trends in Engineering, Materials, Management and Sciences (ICRTEMMS- 2018), SBIT, Khammam, India 25-27 Oct. 2018	2018
68	WEAR AND FATIGUE BEHAVIOUR OF LIMONITE AS REINFORCING ON ELEMENT ON PROPERTIES AL2014 BASED MMC	Vundi Sai Chandra	Mechanical Department	1st International Conference on Recent Trends in Engineering, Materials, Management and Sciences (ICRTEMMS- 2018), SBIT, Khammam, India 25-27 Oct. 2018	2018
69	Study on Behavior of Ilmenite as Reinforcing Element on Properties of Al2014 Based MMC by Stir Casting Method	Vundi Sai Chandra	Mechanical Department	International Journal of Research in Advent Technology,	2018
70	Development and performance evaluation of aluminum based supercapacitor	Abhilash	Mechanical Department	International Journal of Analysis of Electrical Machines	2018
71	Power Flow Control and Power Quality Improvement in DFIG Based Wind Energy Conversion System Using Neuro Fuzzy System"	Maloth Naresh, Umesh Kumar Soni and Ramesh Kumar Tripathi	EEE	IJAER	2018

72	Performance Analysis of Sensorless Controlled BLDC Motor Using Direction Independent U-function	Mr.Maloth Naresh and Tripathi,	EEE	IJAER	2018
73	Power Flow Control in Distributed Generation System of PFC Rectifier for DC Motor Drive	Mr.Maloth Naresh and Tripathi,	EEE	Journal of Electrical Engineering, Automation and Computer Sciences (Series B)	2018
74	Bidectional AC-DC converter for a DC distribution system	Ms. Prashanthi. Yerra ,Mr. K.Suman	EEE	International Journal of Creative research thoughts ugc approved	2017
75	Second order sliding mode observer based sensoless robust control of pmsm	Mr.Kishore Rachakonda	EEE	IJMTARC	2017
76	A Novel of Flux coupling Type Superconducting Fault Current Limiter in DFIG Based Isolated Wind Energy system	Mr.Maloth Naresh and Ramesh Kumar Tripathi,	EEE	International Journal of ChemTech Research.	2017
77	Performance Analysis of Grid Integrated Photo- Voltaic Systems Using Marx Multilevel Inverter in Different Environmental Conditions	Mr.Maloth Naresh and Tripathi,	EEE	Journal of Scientific Bulletin Electrical Engineering and Computer Science (Series C)	2017
78	The impact of extremely low frequency - electromagnetic fields and light at night (LAN) on estradiol (E2) levels,oxidative stress and DNA configuration in female night shift workers	Tiwari R, Surender V, Bhargava SC, Ahuja YR, Kavitha Varak	H&S	8th World Conference on Toxicology and Pharmacology- Dubai UAE	2017
79	Design thinking resiliation & Digitization	Mrs. Jabeen Bushra	H&S	National Conference on Holistic Perspective of Management	2017

80	Influence of End Anchorage on Shear Strengthening of Reinforced Concrete Beams using CFRP Composites	Franklin F.R Frederick, U.K. Sharma and V.K. Gupta,	Civil Current Engineering Current Fortnightly Journal of Research		2017
81	BRAIN TUMOR DETECTION AND EXTRACTION	NILESH L.SHIMPI, G.AHMED ZEESHAN, DR.R.SUND ARA GURU	ECE	IJAREST	2017
82	LPG LEAKAGE & DETECTING SYSTEM	SHAIK ASRA TABASSUM, MD ASHRAF,SY ED SAIF,SAIFU DDIN,ILYAS	ECE	IJSRD	2017
83	DESIGN & IMPLEMENTATION OF CARRY ADDERS USING ADIABATIC & REVERSIBLE LOGIC GATE	BHARATH KUMAR,SHA IK ASRA TABASSUM	ECE	IJDCST	2017
84	Effectiveness Of Performance Appraisal In Employee Training And Development-A Study In Select Organizations"	Dr B Swathi	MBA		2017
85	An Operative Design of a Typical Steam Turbine Blade using Modal Analysis	Aamer Sohail	Mechanical Department	International Journal of Research	2017
86	Enactment of a Large Transportable Vacuum Insulated Cryogenic vessel	Aamer Sohail	Mechanical Department	International Journal of Research	2017
87	Implementation and Thermal Analysis of Transition Duct in Industrial gas turbine	Aamer Sohail	Mechanical Department	International Journal of Research	2017
88	Exploration of Blunt Nose Cone with High Temperature Ceramic composite tps materials	Aamer Sohail	Mechanical Department	International Journal of Research	2017

89	Parametric Study on Effect of Wind on Geometrical Configurations of RC Space Frames	Mrs.B.Sahithi	Civil Engineering	Disaster Advance	2017
90	Study of Velocity Disrtibution across pipe trifurcation using computational fluid dynamics	Syed Mustaf Khadri	Mechanical Department	International Journal of core engineering & Management	2017
91	Numerical investigation of turbulence effects of delta wing vortex generators on thermal performance of plate-fin-and-oval-tube heat exchanger	Syed Mustaf Khadri	Mechanical Department	IJSRD - International Journal for Scientific Research & Development	2017
92	Frequency response of a block due to heat conduction and parametric analysis fort different modes	Meer Mustafa Ali	Mechanical Department	International Journal of Mechanical and Production Engineering	2017
93	Assembly analysis of piston, connecting rod & crankshaft and compare the structure analysis, model analysis using dissimilar materials	K.Durga	Mechanical Department	International Journal of Engineering Research in Management & Technology	2017
94	Non Motorised Vehicle Characteristics and Its Effect on Mixed Traffic	P. BAJI BABU	Civil Engineering	International Journal of Innovative Technologies	2017
95	A Study on Soil Stabilization using Cement and Plastic Fibres	K. Ramya	Civil Engineering	Journal of Geotechnical Engineering	2017

- 2.1 Entrepreneur Development Cell (EDC)
- 2.2 Institute Innovation Cell (IIC)
- 2.3 NSS Activities
- 2.4 Sports

### 2.5 Cultural

2.1

**Professional Societies** 

### **Professional Societies at GIET**

The institute has many professional societies to encourage faculty and students tolearn new technological developments and present their ideas in different platforms.

The following are the professional societies with Institute with respective to eachdepartment

- Institute of Electrical and Electronics Engineering (IEEE)
- Indian Society for Technical Education (ISTE)
- Institute of Electrical and Telecommunication Engineering (IETE)
- Institute of Engineer in India (IEI)
- Society of Automobile Engineering (SAE)
- Association for Computing Machinery (ACM)
- o IEEE-Circuits and Systems
- IEEE-Power Electronics Society
- IEEE-Computer Society of India

2

# **ELECTRONICS CARNIVAL -2018**

S.N O	Name of the Event	Chief guest	Number Participants
1	Electronics Carnival - 2018 Paper Presentations Poster Presentations Project Presentations Cultural Events	Dr, M Manzoor Hussain	100

ment of Rs 70,000 crore, he said. The Governor claimed that Andhra Pradesh made



event. Un the every first day of the orona students displayed their projection of docated areas like IoT applications, wireless sensor Networks, Robotics, Embedeed systems and many more. No matter how high you go we will always ground you" was the theme of the programme. Technical day witnessed a huge crowd and they were left spell bound. Prof. Dr. M. Manzoor Hussain, Prof. of Mechanical Engineering and Director of Admissions, JNTUH, was the Guest of Honour for the inaugural function, Director Mr. K.M. Minahjuddin, Deputy Director K.M. Fasihuddin, Principal Dr. VVVS Murthy, Dean Dr. Tiwari, Head of the Department Mr. G. Ahmed Zeeshan were also present.

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#### **2.2 Entrepreneur Development Cell(EDC):**

#### **Entrepreneur Development Cell:**

- Entrepreneurship cell is established in July 2011 and various events were organized to know the importance of being an entrepreneur and different ways to get financial assistance to become an entrepreneur.
- After having established Innovation Council in the GIET. the EDC preferred to work with it since innovation is the pre-requisite for the success of the business proposal of any type. Inventing new products, particularly in the field of technology, is precious in the present age of hyper-competition. As such, GIET has realized the importance of training the graduating engineers in enhancing the invention skills, networking of the Innovation Cell and ED Cell is encouraged. The EDC of the Institute has organized expert lectures on the process of innovation and testing its commerciality. These lectures have helped a few students to know about the importance of self-employment and wealth creation. They also understood that creativity and innovation are the prerequisites for the success of business ventures. For intensifying the skills of innovation and creativity in products development and marketing by the professional students this COUNCIL organized a Workshop. Mr. Viswanath Kench, of T-hub engaged in Computer Software development has conducted the workshop. There were 14 students present in the workshop. He exhorted to the students that the computer knowledge is a must for every startup as a measure of cost reduction and fast achievement of the objectives. The 14 participants have presented their innovative ideas concerning the use of (a) local waste like dried marigold flower, maize candy covers, kernel of plantains etc
  - (b) of human hair to produce power,
  - (c) computers for fast communication and for transfer of funds, and

(d) socio-economic data bases for research projects. However, it is also impressed upon the students that the product development is not the final step in starting the new venture, but one must also prepare a financial plan and market potential for the innovative product. Innovation Council and the EDC have continued to organize problem-solving exercises periodically.

# 2.3 Institution Innovation Cell(IIC)

The institution has acknowledged many tools for measure and promotes innovative research activities through the cells like Research and Development, Institution's Innovation, and other promotional cells/societies. The **Research and Development cell** has eventually developed to create the research activities and encourage the undergraduate, postgraduate, staff member, and faculties to research newly emerging frontier areas of Engineering, Technology, Science, and Humanities including multidisciplinary fields. Also, the normal research methodologies have been promoted to enhance the research capabilities like participating in conferences, seminars, workshops, project competitions, Training programs, etc. Additionally, the institution extends the financial support tostudents/staff members/facilities for their innovative research and developments.

**IIC** of GIET was established to systematically foster the culture of innovation among the students across various departments inside the Institute. Ministry of Human Resource Development (MHRD) has established Institution Innovation Council among all Higher Education Institutions. The focus of IIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes.

In Industry 4.0 revolution, the institution primarily focuses on the Teaching & Learning process, there requires some additional motivation for the students to meet the standards of Industry as well as the society. Particularly, GIET facilitates better opportunities for the students to conduct Curricular and co-curricular activities. In this regard, a separate Student Activity Center (SAC) is established and handled by students, which provides an excellent opportunity and awareness to the students. The following societies are handled by the students with senior faculties during each semester at the Student Activity Centre (SAC):

# 2.4 NSS Activities

The NSS Unit of GIET organizes various service-oriented activities to inculcate the service as a habit to budding professionals. Various programs organized in the A.Y. 2017-18 are shown in the Table 27

	Name of the Activity	Date	No of Participants
1	Road Safety Awareness Program	06-08-2017	66
2	Independence Day	15-08-2017	110
3	Vana Mahotsav am Programmme	06-09-2017	61
4	Engineers Day Celebrations	15-09-2017	105
5	NSS Day Celebrations	23-09-2017	95
6	Swatch Bharath	17-10-2017	406
7	Drug De-addiction Programme	26-10-2017	68
8	Blood Donation Camp	29-11-2017	50
9	National Voters Day	25-01-2018	78
10	Republic Day	26-01-2018	120
11	Young Voters Awareness Programme	09-02-2018	98
12	Seminar on Creating Energy from Waste	26-02-2018	68
13	International Women's Day	08-03-2018	64
14	Aksharabyasam Programme	20-03-2018	75
15	One day talk on Usage of Helmets	25-04-2018	211
16	Health Camp	21-03-18	71
17	Awareness against Child Labour	22-03-18	73
18	SwachhSurvekshan	23-03-18	75
19	Skill Development Camp	24-03-18	72
20	Anti-Tobacco and Anti Alcohol camp	26-03-18	69

# 2.5 Sports and Games

The students of GIET brought laurels to the institution in Sports and Games. The details are shown in Table 28.

S. No	No. of students Participated in Sports
1	80

# 2.6 Cultural Activities

Global institute of engineering & technology is having exclusive club for cultural and literary event organized under GLOBAL CULTURAL COMMITEE(GCC) will organize all cultural activities pertaining to the state and national festivals, ORSA is an annual event of our institute, which will celebrate for 2 days. The first day begins with technical day, second day fete celebrate as Sports and Cultural day function.

### **ORSA 2018**



