

# JSS Mahavidyapeetha JSS Academy of Technical Education, Noida

C-20/1, Sector - 62, Noida-201301, UP



# ANNUAL REPORT FOR THE FY 2020-21 - JSSATE, NOIDA (From 01.04.2020 to 31.03.2021)

## 1. INSTITUTIONAL ACHIEVEMENTS – RANKINGS AND RATINGS

## (a) Excellent Rank to JSSATE, Noida, UP

In a recent survey conducted by the Education World Magazine, JSS Academy of Technical Education (JSSATE), Noida, has secured "Second Rank "in the State of Uttar Pradesh and "20<sup>th</sup> Rank" at the National level, among the top 100 Private Engineering Colleges in the country.

### (b) NIRF Ranking: JSSATE, Noida ranked 201-250 BAND

	National Institutional Resource Development  Ministry of Human Resource Development  Government of India							
HOME	ABOUT NIRF	PARAMETERS	DOCUMENTS	RANKING	NOTIFICATION/ADVT	FAQS	CONTACT	
		India Rank	ings 2020: En	gineering (	Rank-band: 201-2	50)		
			institution list	in alphabetical or	rder		Bac	
		Name			City		State	
ABES Engine	eering College			G	naziabad	Uttar Prade	sn	
Academy of	f Maritime Education	and Training		K	ancheepuram	Tamil Nadu		
Annamalai l	University			A	nnamalainagar	Tamil Nadu		
B. P. Poddar Institute of Management & Technology				K	olkata	West Bengal		
Bangalore Institute of Technology			В	angalore	Karnataka			
Basaveshwar Engineering College			8	agalkot	Karnataka			
C M R Institute of Technology			8	engaluru	Karnataka			
Centurion University of Technology and Management			p.	aralaknemundi	Odisha			
Chandigarn Engg College			S	anipzada Ajit Singn Nagar	Punjab			
Dr. B. R. Ambedkar Institute of Technology			S	outh Andaman	Andaman a	nd Nicobar Islands		
Easwari Eng	Easwari Engineering College			C	hennai	Tamil Nadu		
Fr. C. Rodrig	gues Institute of Tech	nology		N	lavi Mumbai	Maharashtra		
G. M. R. Inst	titute of Technology			R	ajam	Andhra Pradesh		
Galgotias Co	ollege of Engineering	& Technology		G	reater Noida	Uttar Pradesh		
Gogte Institute of Technology			В	elgaum	Karnataka			
Institute of Infrastructure Technology Research and Management (IITRAM)			A	hmedabad	Gujarat			
International Institute of Information Technology Bhubaneswar			8	nubaneswar	Odisha			
Jamia Hamd	dard			N	ew Delni	Delni		
Jayawant Sh	nikshan Prasarak Mar	ndal 's Rajarshi Shanu C	ollege of Engineering	P	une	Manarashtr	2	
JSS Academ	y of Technical Educat	tion		C	iautam Budh Nagar	Uttar Pradesh		

# (c) QS-I GAUGE:

JSS Academy of Technical Education (Noida) secured **Gold Rank** from QS I-GAUGE in the year 2020:

Indicator	Badge
Teaching & Learning	Gold
Faculty Quality	Silver
Employability	Gold
<b>Student Diversity</b>	Bronze
Facilities	Diamond
Social Responsibility	Bronze
Arts & Culture	Silver
Entrepreneurship	Silver
Overall	Gold



### (d) Institution Innovation Council Award (IIC):

JSS ATE, Noida has been awarded **4.5 Gold Star Ranking** out of 5 Gold Star Ranking by Ministry of Education (MoE) Innovation Cell (MIC), GoI in the year 2020.



### 2. ACCREDITATION:

#### **NBA Status:**

(i) Two Departments (ME & EE) were given accredited status for 3 years i.e. up to June 2021 by National Board of Accreditation.

<b>Accredited Departments</b>	From-To	Duration	
Mechanical Engineering	1st July 2018 – 30th June 2021	2 ****	
Electrical Engineering	1 July 2018 – 30 Julie 2021	3 years	

(ii) Three Departments Accredited for 3 years upto 30.06.2023 by NBA.

An Expert Team conducted on-site evaluation of the programs of three Departments (CSE, ECE & IT) from 7<sup>th</sup> to 9<sup>th</sup> February, 2020, and given accredited status for 3 years i.e. up to 30<sup>th</sup> June 2023 by National Board of Accreditation vide NBA letter dated 08.06.2020.

<b>Accredited Departments</b>	From-To	Duration	
Computer Science & Engineering			
Electronics & Communication Engineering	Academic Years 2020-2021 to 2022-2023 i.e.,upto 30-06-2023	3 years	
Information Technology			

# 3. MENTORSHIP ROLE PLAYED BY JSS AHER FOR QS.

JSS Academy of Higher Education & Research Mysore has been recognized as **Mentor Institution** under **UGC PARAMARSH** scheme and JSS Academy of Technical Education, Noida has been identified as one of the **Mentee Institutions** under the said scheme.

The main objective of the scheme is to enhance the overall quality of the Higher Education Institutions in the Country through mentor institutions by mentoring the non-accredited higher education institution in NAAC accreditation.

#### 4. IMPORTANT PROGRAMS AND EVENTS:

### (a) Entrepreneurship Summit - Noida'20

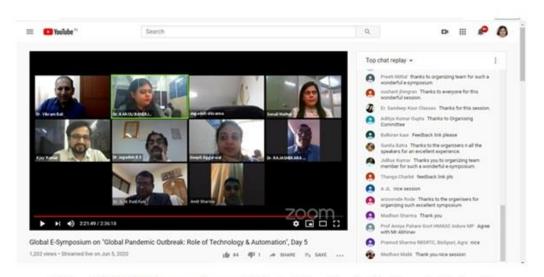
The Department of MBA, JSS Academy of Technical Education Noida hosted E-summit by online mode during this COVID-19 unprecedented lockdown to prevent the spread of Novel Corona Virus on 25<sup>th</sup> and 26<sup>th</sup> April 2020.





# Online Global E-Symposium on "Global Pandemic Outbreak- Role of Technology and Automation":

(b) The Department of CSE has conducted Global E-Symposium on "Global Pandemic Outbreak- Role of Technology and Automation from 01.06.2020 to 05.06.2020



5-Day Global E-Symposium on "Global Pandemic Outbreak: Role of Technology & Automation" – Feedback & Valedictory Session.

#### (c) Celebration of International Yoga Day on 21.06.2020

JSS Academy of Technical Education, Noida has conducted the **6<sup>th</sup> International Yoga Day** on 21.06.2020 at 5.30 AM in the Multipurpose Hall under the guidance and demonstration by Poojya Shanta Mallikarjuna Swamiji, JSS Spiritual & Cultural Centre, Saket, New Delhi. He started with a lecture on Yoga and after that he gave demonstration about Yoga, like Dhanurasan, Tadasan, Chakrasan etc. and Pranayama at last. It took 2.00 hours to complete the yoga session. The

Principal, Deans, Faculty members, staff and family (inside the campus) of the Academy attended and made the event a grand success.

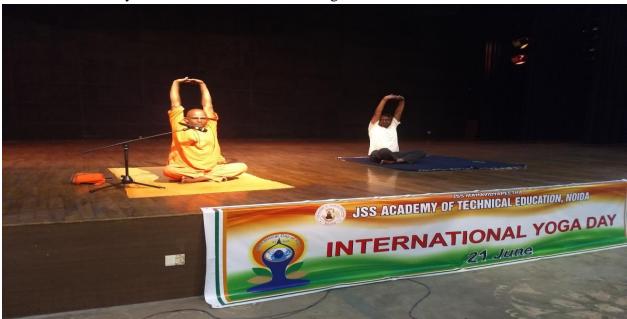


Image 1 related to "Yoga"



Image 2 related to various yoga Aasana



Image 3 related to Surya Namaskar

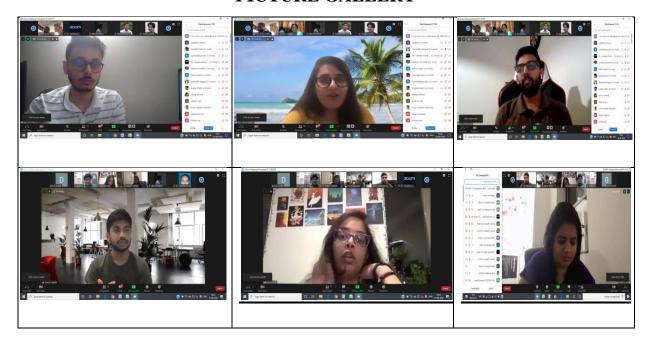
(d) **Indo-US E-Summit on "Global Impact of COVID-19"** on 26<sup>th</sup>& 27<sup>th</sup> June 2020 was organized by the Department of Information Technology.

Department of Information Technology, JSS Academy of Technical Education, Noida has organized a two days Indo-US E-Summit on "Global Impact of COBVID-19" on 26<sup>th</sup>& 27<sup>th</sup> June, 2020. The six panelists have been invited form US, which is the most affected part of the World to discuss the worsening condition and also prepare a strategy to help people identify the ways to live normal lives in this uncertain situation.

The First Session on "Global Mental Health Crisis" was discussed among three panelists Mr. Saurabh Pant, Software Engineer, Azure Storage R&D, USA, Ms. Sumedha Nagpal, Data scientist Fair.com, USA and Mr. Saurabh Gupta, Data Analyst Nielsen Queensbury, New York.

**The Second Session** on "Global Job Loss "was discussed among panelists Mr. Tushar Gupta, Software Developer, US, Ms. Stuti Jaiswal, Software Developer, US and Ms. Prachi Pathak, Software engineer, US.

#### PICTURE GALLERY



# (e) International Conference on "Intelligent Control and Computation for Smart Energy and Mechatronic System's (ICCSEMS-2020)":

Online International Conference on "Intelligent Control and Computation for Smart Energy and Mechatronic Systems (ICCSEMS-2020)" organized by JSS Academy of Technical Education, Noida during September 25<sup>th</sup> - 26<sup>th</sup> 2020, in commemoration of 105<sup>th</sup> Jayanthi of Srimanmaharaja Rajaguruthilaka His Holiness Jagadguru Dr. Sri Sri Shivarathri Rajendra Mahaswamiji. There has been paradigm shift in the realm of Teaching-Learning and Research caused by the COVID-19 pandemic. The process of delivering the education is fulfilled through digital platform. Whereas the sharing of research outcomes was scuttled. The ICCSEMS-2020 Team at JSSATE Noida answered this challenge successfully by holding the conference and providing a common platform to present, discuss and deliberate the research findings of academicians, scientists and industry experts.

The scope of the conference has been rendered under the four tracks:

- 1. Smart Energy Systems,
- 2. Smart Homes, buildings and cities,
- 3. Control, Mechatronics, Robotics, Advanced Materials and Manufacturing and
- 4. Information and Communication Technologies.

All in total we had received 208 papers comprising of all the tracks and based on double blind review process 115 papers were selected and communicated for registration reaching a selection rate of 62.9%. Each paper, regardless of track, received at least 3 reviews. Out of 115 papers 108 authors have finally registered for the conference achieving an "Acceptance-to-Invitation" rate of 93.9%.

We have successfully garnered response from 6 Keynote speakers, 2 Pre-conference Tutorial speakers of international eminence.

Mr. Krishnamoorthy Raman, CEO and Founder of Navtat Solutions, Banglore, delivered keynote address on "Advancements in AI, ML and Robotics in Digital Transformation". Dr. Daciana Iliescu, University of Warwick, UK presented keynote address on "The use of Simulations and Predictions in the field of Energy Generation and Consumption". Dr. Saeed Sharif, East London University, UK, was unable to deliver keynote address on "Artificial Intelligence Innovations for Better Medical and Healthcare Solutions: Supporting the Medical Professionals and Improving the Patients Outcomes". Dr. Michael Carl, Kent State University, USA, delivered keynote address on "Interactive, Multi-modal Cloud- and Crowd-based Translation". Dr. Sundresan Perumal, University Sains Islam Malaysia delivered keynote address on "Enmesh Humanizing Computing in Todays Innovation". Dr. Amar Patnaik, MNIT, Jaipur, India delivered keynote address on the "Latest Developments in Coating Technology and Characterization Techniques".

Dr. Girish Revadigar, Senior Researcher, Huawei International Pte Ltd. Singapore delivered pre-conference tutorial on "Secret key generation mechanisms for resource constrained devices". Dr. Ashish Seth, Department of IT, School of Global Convergence Studies, INHA University Tashkent, Uzbekistan delivered pre-conference tutorial on "Cloud Computing Essentials".





**Inauguration of ICCSEMS-2020** 

# (e) 105<sup>th</sup> Jayanthi Celebrations of Srimanmaharaja Rajaguruthilaka His Holiness Jagadguru Dr. Sri Sri Shivarathri Rajendra Mahaswamiji on 29-08-2020:

The 105<sup>th</sup> Jayanthi celebrations of Srimanmaharaja RajaguruthilakaHis Holiness Jagadguru Dr. Sri Sri Shivarathri Rajendra Mahaswamiji was celebrated by JSS Academy of Technical Education Noida on Saturday, 29.08.2020.

#### (f) Global On-line Alumni Meet:

On the occasion of 105<sup>th</sup> Jayanthi Celebrations of Srimanmaharaja Rajaguruthilaka His Holiness Jagadguru Dr. Sri Sri Shivarathri Rajendra Mahaswamiji an on-line Global Alumni Meet was organized by the JSS Academy of Technical Education Noida on 29.08.2020.

Certificate of Appreciation for the following illustrious alumni were displayed for their proud achievements during the Global on-line Alumni Meet at JSSATE, Noida:

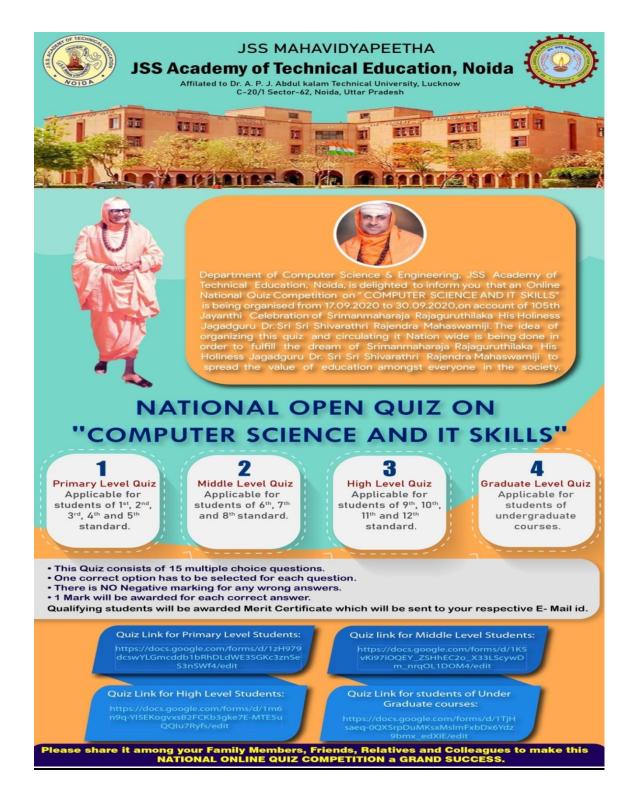
- (1) Ms. Anju Swarup of ECE batch 2004
- (2) Mr. Saurabh Pandey of ECE batch 2002
- (3) Mr. Sushant Pandey of ECE batch 2002
- (4) Mr. Vaibhav Goel of ECE batch 2002
- (5) Mr. Gaurav Swaroop of IT batch 2004

A total of 346 participants (275 Alumni and 71 JSSATEN Officials, Faculty & Staff) joined the meeting

## (g) On-line National Quiz Competition on "Computer Science and IT Skills"

Department of Computer Science and Engineering, JSS Academy of Technical Education, Noida, has organized an Online National Quiz Competition on "Computer Science and IT Skills" from 17.09.2020 to 30.09.2020, in commemoration of 105<sup>th</sup> Jayanthi Celebration of Srimanmaharaja Rajaguruthilaka His Holiness Jagadguru Dr. Sri Sri Shivarathri Rajendra Mahaswamiji. The idea of organizing this quiz and circulating it nationwide was done in order to fulfill the dream of Srimanmaharaja Rajaguruthilaka His Holiness Jagadguru Dr. Sri Sri Shivarathri Rajendra Mahaswamiji to spread the value of education amongst everyone in the society and the country as envisioned by Srimanmaharaja Rajaguruthilaka His Holiness Jagadguru Dr. Sri Sri Shivarathri Rajendra Mahaswamiji.

The participation for the Quiz was based on 4 different categories. Each of the below categories had different sets of questions and different levels of complexity. The participants registered themselves based on their category and attempted the Quiz.



# (h) 70<sup>th</sup> Birthday of Hon'ble Prime Minister of India, Sri Narendra Modi Ji on 18.09.2020:

JSS ATE, Noida has celebrated the 70<sup>th</sup> Birth Day of Hon'ble Prime Minister of India, Sri Narendra Modi Ji on 18.09.2020 by planting the saplings of Peepal tree on the occasion as per the letter from Dr APJ AKTU Lucknow and Office of the Governor, Uttar Pradesh State.





Planting the saplings of peepal tree by Principal, Deans &HoDs

(i) "India can deal with the stress and anxiety unleashed by the COVID-19 pandemic"

A Debate Competition on topic "India can deal with the stress and anxiety unleashed by the COVID-19 pandemic" was held on 22<sup>nd</sup> September, 2020 between 9:30 AM-11:00 AM. The Debate Competition was organized by the Department of English, JSSATE, Noida. The competition was conducted through online platform. There were 14 students registered for the event.

(j) The Socio-Psychological Impact of a Pandemic-How to Build a More Resilient and Inclusive Global System.

An Essay Competition was held at our college premises on 21<sup>st</sup> September 2020 between 6:00 PM - 7:30 PM. Students were asked to write the essay on the **Topic:** "The Socio-Psychological Impact of a Pandemic-How to Build a More Resilient and Inclusive Global System". There were 25 students registered for the event. Certificates were given to the winning candidates.

# (k) Short Term Training Programs (STTPs) conducted in the Academy for FY 2020-21:

- (a) The Department of Computer Applications, JSS Academy of Technical Education, Noida has organized One Week Short Term Training Programme (STTP) on "Smart Technologies" with Industrial Experts from 05<sup>th</sup> to 9<sup>th</sup> October 2020. This STTP was organized through online platform. This programme covered aspects of the "Smart Technologies" that touch all departments. In order to create awareness about the smart technologies, this programme paves way to enhance the knowledge of Students Community in reaching their objective. This programme will also help to build the big picture along with practical information to succeed on the next generation systems.
- (b) The Department of Electrical Engineering, JSSATE, Noida successfully organized the AICTE approved STTP on Power Electronic Applications for Smart Grid, Electric Vehicles & Renewable Energy in November –December 2020.

Keynote speakers of the respective series were Prof. BidyadharSubudhi (IIT, Goa), Dr. V. K Chandna, Principal, JECRC, Jaipur and Prof. Chandan Kumar Chanda, IIEST, Shibpur, WB.

The STTP had eminent speakers from renowned institutes like IIT's, NITs and industry experts from this related field like CERC and Chief Electrical Inspectorate, GOI talking about the wide scale application of Power Electronics, the cutting edge technology being used as well as the grey areas which needed to be explored.

Mr. Mukul Kumar (IES) Asst. Director with CEI spoke about the need for these types of forums which link the practical & theoretical aspects giving rise to great minds working together for the nation.

Over 120 Participants from all over the country attended the STTP.

(c) The Department of Information Technology has organized AICTE Sponsored three One Week Short Term Training Program on Internet of Things and Data Analytics (Schedule 1 - 17<sup>th</sup> to 23<sup>rd</sup> Nov 2020, Schedule 2 - 24<sup>th</sup> Nov to 01<sup>st</sup> Dec 2020, Schedule 3 - 02<sup>nd</sup> Dec to 08<sup>th</sup> Dec 2020).

The program was conducted with the support of AICTE and the funding was sponsored by AICTE. This training program was aimed to discuss the opportunities and challenges of Data Analytics and IoT and their related issues.

The inaugural session of STTP1 was attended by Guest of Honor & Keynote Speaker, Prof. T.N Nagabhushana who is currently working as Professor in Information System (IS) Department at JSS Science and Technology University, Mysore.

The inaugural session of STTP2 was attended by Guest of Honor & Keynote Speaker, Professor (Dr.) Parma Nand, Dean, School of Engineering Technology, Sharda University Greater Noida.

The inaugural session of STTP3 was attended by Guest of Honor & Keynote Speaker, Dr. S. Ramanarayana Reddy is working as a Professor in Computer Science & Engg. Dept of Indira Gandhi Delhi Technical University for Women (IGDTUW), Delhi The sessions were delivered by the eminent experts in this field. All the technical sessions were delivered then after as per the schedule by experts from relevant fields. A total of 219 faculty members from all across the country were participated in online STTP programme.

- (d) The Department of Electrical and Electronics Engineering has conducted AICTE sponsored online Short-Term Training Program (STTP) on **Solar PV and Storage Systems in December 2020** through online mode. The program was conducted with the support of ACITE under AQIS Scheme and funding was sanctioned by AICTE.
- (e) Department of Mechanical Engineering conducted AICTE Sponsored Online One Week Short Term Training Course (Series-1) on "Advance Manufacturing and Materials" from 23<sup>rd</sup> to 28<sup>th</sup> November 2020.

The main objectives of the short-term training Program were to acquaint the faculty members with various advanced manufacturing processes, techniques and the applications. The members gained state of the art knowledge in advance materials and manufacturing processes as well as the characterization of materials. Through this

Program the participants are also given hands on experience on Advance Manufacturing processes.

Experts from IITs, NITs and other premier Institutions delivered the talk. 40 Faculty members from department of Mechanical Engineering (JSSATE, Noida) and from other institute participated in the lecture.

# 5. CONSOLIDATED STATISTICS OF CONFERENCE, WORKSHOPS AND SEMINARS CONDUCTED INCLUDING THE VIRTUAL EVENTS

Details of various events conducted in the Academy during the FY 2020-21 is as given below:

Conference	FDPs	STTPs	Workshops	Webinars
01				
(International	03	05	04	26
<b>Conference</b> )				

# 6. CONSOLIDATED STATISTICS OF CONFERENCES, WORKSHOPS AND SEMINARS ATTENDED BY FACULTY INCLUDING VIRTUAL EVENTS.

Department	Conferences	Workshops	Seminars	Webinars	Any other
CE	-	-	-	13	-
CSE	25	64	12	44	18
ECE	6	7	3	18	-
EE	19	8	4	67	23
EEE	4	11	0	40	18
IT	8	1	-	38	43
ME	21	49	02	48	-
Chemistry	2	1	3	5	-
Physics	9	7	0	26	-
Maths	1	7	3	16	-
MBA	4	2	7	7	
Total	99	157	34	322	102

#### 7. NEW ACADEMIC PROGRAMS

Online application for Extension of Approval for the existing courses for the AY 2021-has been submitted to AICTE in month of March 2021.

AICTE has conducted Screening Committee meeting through online and approved the introduction of the following new courses from the AY 2021-22:

### Introduction of new UG & PG courses from the AY 2021-22

B.Tech. in CSE (Data Science) - 60 seats
 B.Tech. in CSE (AI & ML) - 60 seats
 M.Tech CSE (AI& ML) - 18 seats
 MBA (IEV) - 60 seats
 CA - 60 seats

### Closure of course from the AY 2021-22

M.Tech (Advanced E&C) - 09 seats
 B.Voc. - 60 seats

### 8. RESEARCH HIGHLIGHTS

### Details of Research Proposals submitted/Sanctioned/Grant Received

Year	No. of Research Proposals submitted	Total Amount in Rs.	Grants sanctioned In Rs.	Grant Received in lakhs
2020-2021	28	8,67,95,352/-	11,36,000/-	11,36,000/-

### 9. PUBLICATION STATISTICS

Sl. No.	Period	Journal	Conference	Wos Indexed	Scopus indexed	Patent filed/submitted
1	01.04.20 to 31.03.2021	41	105	31	34	23

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Dr. Qurulingappa M. Pati Principa