SIGNIFICANT IMPROVEMENTS AND INITIATIVES TAKEN BY DEI IN THE LAST ACADEMIC SESSION (2018-19)

CRITERION 1: CURRICULAR ASPECTS

A. New Departments

- 1. Civil Engineering
- 2. Footwear Technology
- 3. Architecture

B. New Academic Programs introduced

- 1. BBA (Logistics)
- 2. BBA (Retail)
- 3. BA (Social Science) Cognitive Science
- 4. BSc Cognitive Science
- 5. BCom Corporate Law and Accounting
- 6. Vocational Programs BVoc
 - (i) Banking and Finance
 - (ii) Robotics and AI
 - (iii) Pottery and Ceramic design
 - (iv) Commercial Arts
 - (v) Digital Manufacturing
 - (vi) Telematics
 - (vii) Telecommunications
 - (viii) Bamboo and Wood Technology
 - (ix) Recycled Craft Design
- 7. MA (Social Science with specialization in Business Management)
- 8. MBA (Waste Management and Social Entrepreneurship)
- 9. PhD in Civil Engineering
- 10. PhD in Footwear Technology

C. New Centres of Excellence in School of Education established

- Centre for Knowledge Acquisition Retention and Transformation (CKART) through Visual and Performing Arts, Yoga/Meditation and Brain-based Learning
- Centre for Artificial Intelligence in Education (CAIE)
- Twelve new courses introduced under these Centres and 8 training programs conducted (1750 beneficiaries)

CRITERION 2: TEACHING, LEARNING AND EVALUATION

- 1. Awards and Recognitions received by the Institute/Faculty/Students
 - UP NEDA Save Energy Award 2019
 - Faculty and Student Awards and Recognitions (Memberships of National Bodies-AICTE, MEITY, DST, DRDO, NCTE, NAAC, Journal Editorial Board Memberships, Reviewers for Journals, Fellowships etc.): 53
- 2. Contributed in developing the recommendations of UGC outcome-based evaluation reforms for higher education and training across the country

- 11. Contributed in the finalization of learning outcomes for secondary education in National Workshop by NCRT
- 12. Introduced Lateral Entry Scheme from UG, Diploma or BVoc programs to various other programmes.
- 13. Integration of Performing Arts (Drama, Music and Puppetry) in Education (UG Internship)
- 14. Introduction of Mind Mapping in UG Internship
- 15. Introduction of Enrolment in SWAYAM/NPTEL/MOOCS

CRITERION 3: RESEARCH, INNOVATION AND EXTENSION

- 1. Established 9 research divisions to encourage trans-disciplinary/multi-disciplinary research.
- 2. Provided seed money to young faculty for research.
- 3. Established institute innovation council and conducted number of talks/workshops.
- 4. Organised research fair for research promotion.
- 5. Patents Awarded: 05
- 6. Patents Applications submitted: 03
- 7. Workshops/Seminars conducted on IPR and Industry Innovative Practices: 13
- 8. Free Business Advisory Services: 611 to 202 clients.
- 9. No. of Extension and Outreach Programs in collaboration with Industry: 191
- 10. Collaboration activities for research, faculty exchange: 65
- 11. No. of Linkages with Institute/Industry Internship: 311
- 12. New MoUs with prestigious foreign universities: 4
 - a. University of Manitoba, Canada
 - b. University of New England, Australia
 - c. Seneca College of Applied Arts and Technology, Canada
 - d. UUNZ Institute of Business, New Zealand
- 13. Augmented Agricultural and Research Activities in Solan, HP.
- 14. Organized Exchange Program with the University of Hong Kong.
- 15. Student visit to Seneca Community College, Canada.
- 16. Initiated collaborative coursework with Seneca College Canada.
- 17. Organized Foldscope and Frugal Innovation Camps in collaboration with Stanford University, USA, for tribal students at Rajaborari, MP.
- 18. Organized Science Education Workshop sponsored by the Indian National Science Academy, for tribal students at Rajaborari, MP.
- 19. Designed and launched the Government of India "Code India Program" to promote computer among school students across India through App-programming.
- 20. No. of Departments with SAP/FIST/School of Education recognition: 12
- 21. No. of Research Projects to date: 16
- 22. No. of Workshops/Conferences organized to date: 16
- 23. Consultancy for wetting of DPRs for Agra Smart City.

Support for Research

SI. No.	Heads	2018-19 till 30.11.19
		Amount in Rs. (Lakhs)
1.	R & D Grants from Non – Govt. sources	53.75
2.	R & D Projects from Govt. Funds	740.53
3.	Revenue from Consultancy	38.10
4.	Seed Money provided for Research	1623.15

Some of the Workshops/Conferences/Events Organized (www.dei.ac.in)

S.No.	CO-ORDINATOR	EVENT	DURATION
1.	Prof. Sukhdev Roy	UGC-SAP SEMINAR ON ADVANCES IN NANO AND BIO SCIENCES	March 27, 2019
2.	Prof. Shalini Nigam	MILAN 2019, Faculty of Social Science	04-04-2019 to 06-04-2019
3.	Prof. A. K. Saxena	NBA Workshop, Faculty of Engineering	19-04-2019 to 23-04-2019
4.	Dr. Pratima Singh	TEACHING THROUGH VISUAL & PERFORMING ART, Faculty of Education	06-05-2019 to 07-05-2019
5.	Dr. Neha Jain	TEACHING WITH ARTIFICIAL INTELLIGENCE, Faculty of Education	22-05-2019 to 31-05-2019
6.	Dr. Ranjeet Kumar	INDO- US WORKSHOP, Faculty of Science	13-06-2019 to 16-06-2019
7.	Dr. Sona Dixit	TEACHING WITH PUPPETRY, Faculty of Education	04-06-2019 to 06-06-2019
8.	Prof. Ashok Yadav	TRAINING PROGRAM, TEQIP-III	09-07-2019 to 10-07-2019
9.	Dr. Sumita Srivastav	ENTERPRENEORSHIP RESEARCH DIVISION, Faculty of Social Science	02-08-2019 to 03-08-2019
10.	Dr. Kalpana Gupta	WORKSHOP, Faculty of Education	01-08-2019, 04 & 05-08- 2019
11.	Dr. G. P. Rana	SOLARTHON, BVOC Renewable Energy	09-09-2019 to 14-09-2019
12.	Dr. Sumita Srivastav	ENTERPRENEORSHIP, Faculty of Social Sceince	18-09-2019
13.	Dr. D. Vasanta	SCHOOL OF EDUCATION	21-09-2019 to 22-09-2019
14.	Dr. Sona Dixit	SCHOOL OF EDUCATION	19-10-2019 to 20-10-2019
15.	Dr. N. P. S. Chandel	SCHOOL OF EDUCATION	21-10-2019 to 23-10-2019
16.	Dr. Brij Raj Singh	HOUSEKEEPING TRAINING - BVOC	14-11-2019 to 19-11-2019
17.	Prof. Anand Mohan	RECONNNECTING WITH NATURE	23-11-2019
18.	Prof. Sahab Dass	Workshop on Instrumental Techniques in Chemical Analysis	26-29-11-2019

CRITERION 4: INFRASTRUCTURE AND LEARNING RESOURCES

- 1. New Land Acquired: 17 acres
- 2. New Lecture Halls established: 26 rooms (Area 3741 m²)
- 3. Substantial increase in Library expenditure
- 4. Subscription to e-journals: Rs. 16 Lakhs
- 5. Enhancement of IT Facility CCTV Surveillance: 60 Cameras
- 6. Networking Cisco firepower firewall and cisco core switches: Rs. 82 Lakhs
- 7. New Computers added: 200
- 8. Network Attached storage 250 TB: Rs.21 lacs
- 9. UGC ODL video and biometric surveillance: Rs. 85 lacs
- 10. BGP router: Rs. 20 lakhs
- 11. Interactive panels
- 12. Video Wall in Conference room
- 13. Enhanced ICT facility in all Labs

A. New Buildings Constructed

S.No.	Particulars	Plinth Area	Cost
		(sq. m)	(Rs. In Lakhs)
1.	Lecture Hall Complex for School for Education	3742	561
2.	Lecture Hall – 1 (Bamboo)	743	120
3.	Lecture Hall – 2 (Bamboo)	443	71.55
4.	Faculty of Integrative Medicine	2930	654
	(Homeopathy Medical College)		
5.	Food and Dairy Testing Laboratory	297.68	44.65
6.	Value Addition Laboratory	185.87	28
7.	Dairy Engineering workshop	260	39
8.	Office and Classroom Block for Agriculture Technology	100	15n
9.	Extension of Boys Hostel	627.18	95.57
10.	New Lecture Hall Complex	8137	850
11.	Creche (Bamboo)	685	74
12.	Multipurpose Gymnasium	702	148.55
13.	Battery Room in Dairy	41	8.5
14.	Geodesic Control Room for Renewable Energy System	200	15
	Total	19093.73	2709.82

B. New Laboratories Established

- 1. 5-G Testing Laboratory
- 2. Accounting and Taxation Laboratory
- 3. Agriculture and Solar Integration Laboratory on Land
- 4. Aptitude Testing Laboratory in Medical Camps
- 5. Artificial Intelligence Laboratory
- 6. Biodiversity Laboratory
- 7. Biomass Laboratory
- 8. Ceramic and Pottery Laboratory
- 9. Computer-Aided Design (CAD) Laboratory
- 10. Dairy Engineering Workshop
- 11. Dairy Technology Testing Laboratory

- 12. Digital Manufacturing Laboratory
- 13. Food Laboratory
- 14. Geo-Technology Laboratory
- 15. Geomatics Laboratory
- 16. Internet of Things Laboratory
- 17. Paper Recycling Laboratory
- 18. Performing Arts Laboratory
- 19. Power System Protection Laboratory
- 20. Puppetry Laboratory
- 21. Renewable Energy Laboratory
- 22. Robotics Laboratory
- 23. Smart Greenhouses
- 24. Solar Agriculture Farm
- 25. Structural Analysis Laboratory
- 26. Sustainability Laboratory
- 27. Tourism and Hospitality Management Laboratory
- 28. Transportation Laboratory
- 29. Value-Addition Laboratory
- 30. Visual Arts Laboratory
- 31. Waste and Recycling Laboratory
- 32. Waste Management and Nano Enterprises Laboratory
- 33. Yoga Centre

C. New Equipment Installed

Laminar Air Flow
Laminar Air Flow Hood
LED Projectors
Lithium-ion batteries
Mass Flow Sensor for Aethalometer
MATLAB (unlimited licenses)
Milk Bottle Filling Plant
Mobile Signal booster
Nanodrop
Network Analyzer
NI Equipment for Green House
NVidia CUDA Server
PA System
Patron Traffic Counter
PCB Manufacturing Machine
Photo Copier
Pneumatic telescope mobile tower
Portable Cabins
Portable Sonicator
Precision Physical Balance
Programmable DC Power Supply
PTZ video camera, LCD Projector
PV Wind Hybrid System

Desktop 3D Scanner	R.O Water System
Desktop Computers	Rapid Microbiological Test Line
Differential Scanning Calorimeter	Reagents
Digital Duplicator	Real Time PCR Based Microbial
3	Analyzer
Dump Tank 200 Liter	Rebound Hammer
E-view software	Robots (Cognitive)
E-Yantra lab	Sewage Cleaning Machine
Electric Boiler	Shrikhand/ Basundi Packing Machine
Electric Lawn Mover	Signal Generator
Eliza Reader	Smartphones
Fire System	SMPS for Aethalometer
Fluorescence Microscope	Spectrophotometer
Fluorescence Spectrometer	Spectrum Analyzer
Gas Chromatograph	SPT Accessories
Gateway	Thermomixer
Gel Doc System	Toilet Cleaning Machine
Ghee/Khoa Kettle	Track Recording System
Green Cooling Cum Storage Tank 200 L	Ultrasonic Pulse Velocity Apparatus
Green Pasteurizer 100 L	Universal Mutation Detection System
GSM Wireless Analyzer	Upgradation of 32 Channel EEG To 64
	Channel
High end HD wireless video camera	Value Addition Lab
High-end Laptops (2)	Vanadium Flow Battery Pack
High-end Tablets (2)	Video Encoder
Homogenizer	Video Mixer
Hygiene Monitoring System	Virtual Classroom Set Up
Ice Cream Plant	Wireless Antenna
Inductively Coupled Plasma Atomic	Western Blot Apparatus
Spectrophotometer (ICPAES)	
Integrated IOT System (Humanoid)	
Inverted Pendulum	
IOT Kits	
Irrigation Pipes with Sprinklers	
Kiosk System	
Lab Equipment for Agriculture Technology	

SI. No.	Heads	2018-19 till 30.11.19 Amount in Rs. (Lakhs)
1.	Budget Allocation for Infrastructure excluding salary	10911.37
2.	Books & Journals	205.84
3.	Expenditure on Physical Facilities & Academic support	1852.41

CRITERION 5: STUDENT SUPPORT AND PROGRESSION

- 1. Indo-Canada MITAC Scholarships: 4 (USD 4000 each)
- 2. 100 per cent Financial Support for Co-op Internship Program either from Institute or Industry funds
- 3. Financial Assistance for GATE coaching with online and printed resource material: 200 students
- 4. Financial support for employability skill training from professional counsellors: 400 students
- 5. All students admitted to 1st year BTech were given 3-week Induction Program
- 6. Organized Solar Hackathon.
- 7. Copyright awarded for the innovative Six Sigma Qualities and Values logo.
- 8. No. of Students getting scholarships by govt. agencies: 783
- 9. No. of Students getting scholarships by Institute and other sources: 464
- 10. NCC Director General Commendation Award, 2018.
- 11. Second Best Cadet Award, UP Directorate, 2018.
- 12. 5 Cadets participated in RD Camps, for Republic Day Parade, 2018.
- 13. 5 Cadets participated in PM Rally, 2018.
- 14. 1 Cadet visited Kazakhstan in NCC Youth Exchange Programme, 2018.
- 15. 1 Cadet visited Bhutan in NCC Youth Exchange Programme, 2019.
- 16. 1 Cadet awarded the Chief Minister Silver Medal for Best in Drill in Inter-Group Competition, 2019.
- 17. Awards won in the Inter-University North-Zone Youth Festival, organized by Association Indian Universities (2018-19)
 - Instrumental Solo Non-percussion 1st
 - Western Instrumental Solo 1st
 - Classical Vocal Solo 2nd
 - Rangoli Consolation
 - Instrumental Solo (Percussion) Consolation
- 18. Awards won in the Inter-University National Youth Festival, organized by Association Indian Universities (2018-19)
 - Western Instrumental Solo 2nd
 - Classical Vocal Solo 3rd
- 19. Alumni contribution (2018-19 till 30.11.19): > 100 lakhs

CRITERION 6: GOVERNANCE, LEADERSHIP AND MANAGEMENT

- 1. Constituted a Fire Safety Committee
- 2. Online portal launched for Grievances
- 3. Constituted the Institute Innovation Council under aegis of MHRD
- 4. Strengthened IQAC with additional expert members from Academia and Industry
- 5. Strengthened the Academic and Administration Audit Committee (AAAC) with additional expert members from Academia and Industry
- 6. Initiated the ISO 21001:2018 certification that is currently in process
- 7. Completed the NBA Accreditation process for Departments of Electrical and Mechanical Engineering, result awaited.
- 8. Constituted Engineering Curriculum Review Upgradation Committee with external members
- 9. Participation in NIRF-2019 and NIRF-2020.
- 10. Conducted an extensive Student Perspective Survey on Impact of Activities of DEI

- 11. Conducted a Comparative Survey of DEI and other Institutions
- 12. Conducted an exhaustive Survey on Societal Impact of Institutional Activities/Features
- 13. Conducted an Impact Feedback Survey
- 14. Conducted an extensive survey on UN Sustainable Development Goals Achievement Matrix through DEI Activities and Features
- 15. Participated in Atal Ranking of Institutions on Innovation Achievements (ARIIA-2019 and 2020), Feedback for DEI
- 16. Participated in Swachhta Ranking 2019
- 17. No. of Teachers supported for Conferences: 41
- 18. Funds received from Non Govt. sources (2018-19 till 30.11.19): Rs. 265.01 lakhs

A. Green Initiatives

- Constructed a Bamboo Lecture Hall
- Constructed a Bamboo Creche for women staff
- Installed Solar tube-light natural lighting system in Guest House
- Enhanced the Solar Power capability with Battery Back-up, from 585000 kWH to a total generation capacity of 855000 kWH.
- Acquired land and established a new Bio-diversity Park in an area of 7 acres
- Established a multi climatic Green Houses
- Constructed an Amphitheatre
- Established Institute and Student Indian Green Building Council Chapters
- Construction started of Exhibition Hall and two Architecture Studios using Bamboo

B. Smart Campus Initiatives

- Smart Agriculture
- Smart Dairy Farming
- Smart Connectivity
- Smart Waste Management
- Smart Surveillance

CRITERION 7: INSTITUTIONAL VALUES AND BEST PRACTICES

- 1. Installed a Waste-Paper Recycling Plant
- 2. Creation of Solar Agriculture Farm (2.5 Crores-DST Project) in collaboration, IIT Roorkee and University of Tromso, Norway.
- 3. Organized the First International Conference on Dayalbagh Science of Consciousness (DSC 2019) in collaboration with University of Waterloo, Canada, September 6, 2019.
- 4. Organized 250 free multi-specialty medical and assistance camps to date, with more than 1 lakh twenty one thousand footprints.
- 5. Contributed in NAAC compilation of Best Practices in Admission Process and Staff Development/Professional Development Activities
- 6. Expenditure on green Initiatives and waste management excluding salary (2018-19 till 30.11.19): Rs. 470.00 lakhs
- 7. Interaction with Professor Abhijit Banerjee, the 2019 Nobel Prize Winner in Economic, at New Delhi and MIT, USA.
- 8. Selected in Paramarsh UGC Scheme for Mentoring NAAC Accreditation Aspirant Institutions to Promote Quality Assurance in Higher Education.

9. Several Activities with high Social and Environment Impact organized in collaboration with Society for Preservation of Healthy Environment and Ecology and Heritage of Agra (SPHEEHA) (www.spheeha.org).

10. Special Talks Organized

S.No.	Name	Title of Talk	Affiliation
1.	Prof. Joy Sen	Indian Culture and Values	IIT Kharagpur
2.	Prof. Anna Horatchek	Consciousness Values and	University of Kiel,
		Innovation	Germany
3.	Prof. Gerd Horatchek	Psychoanalysis and Wellbeing	University of Kiel,
			Germany
4.	Prof. Anand Srivastav	Innovative Aspects of Maker-	University of Kiel,
		Breaker Game Theory	Germany
5.	Mr. Sachin Sharma	Green Practices in Project	Director Projects, Wave
		Management	
6.	Dr. Sandeep Narang	Green Buildings and their Societal	Secretary, IGBCA
		Impacts	
7.	Prof. Sandeep Grover	Best Practices in Outcome Based	YMCA
		Education	
8.	Prof. K.	Professional Ethics	Director, JNTU-ISTH
	Venkateshwara Rao		
9.	Prof. T. Vijay Lakshmi	Environment Protection	JNTU-ISTH
10.	Prof. Hema Bindu	Biotechnology	JNTU-ISTH
11.	Mr. P. Subramaniam	Renewable Energy Initiatives GOI	CEO, NSEMI, India
12.	Mr. Sudhir Chandra	Application of PV SYST in Solar	CEO, EEEP Ltd.
	Shekhar	Power Plant Design	
13.	Prof. Anand Mohan	Nature: Ethos and Ethics in Vedas	FASc., FNASc, Registrar,
		and Ancient Scriptures	DEI
14.	Mr. Anil Kumar	Climate Change and Sustainable	IAS, Commissioner Agra
		Development	
15.	Prof. Subhash Kak	Themes of Space and Structure in	Member, PM-STIAC and
		India and gtheir Contemporary	Regents Prof. Oklahoma
		Relevance	Univ., USA
16.	Mr. Gauri Shankar	Climate Change and its effect in	IAS Retd.
	Ghosh	India Specially in water sector	
17.	Mr. S. Massod Hussain	Sustainable Development and	Former Chairman, CWC
		Management of Water Resources	
		in the Country	
18.	Mr. R.K. Jain	Issue in Environmental Clearance	Chief Engineer, NW, DA
		of Ken Beta Link Project	