VOLUME 1 ISSUE 1



GURU NANAK DEV ENGINEERING COLLEGE LUDHIANA

TEQIP-III I

Newsletter April-June 2019



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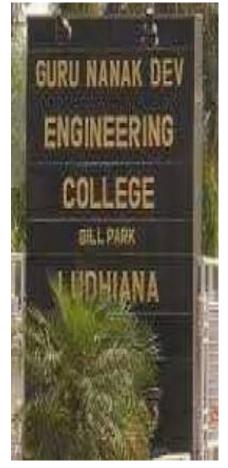


TEQIP-III

The Project, Third phase of Technical Education Quality Improvement Programme (referred to as TEQIP-III) is fully integrated with the Twelveth Five-year Plan objectives for Technical Education as a key component for improving the quality of Engineering Education in existing institutions with a special consideration for Low Income States and Special Category States (SCS) and support to strengthen few affiliated technical universities to improve their policy, academic and management practices.

Objectives

- Improving quality and equity in engineering institutions in focus states viz. 7 Low Income States (LIS), eight states in the North-East of India, three Hill states viz. Himachal Pradesh, Jammu & Kashmir, Uttarakhand and Andaman and Nicobar Islands (a union territory (UT))
- System-level initiatives to strengthen sector governance and performance which include widening the scope of Affiliating Technical Universities (ATUs) to improve their policy, academic and management practices towards affiliated institutions, and
- Twinning Arrangements to Build Capacity and Improve Performance of institutions and ATUs participating in focus states.



GNDEC at a Glance

GNDEC at a Glance Guru Nanak Dev Engineering College (GNDEC) was established by The Nankana Sahib Education Trust with a mission of "Removal of Economic Backwardness through Technology" for the upliftment of the vast weaker section of Indian polity comprising Rural India. This commitment was made to the nation on 8th April, 1956, the day foundation stone of the College Building was laid by Late Dr. Rajendra Prasad Ji, the First President of India. The thrust is on practical learning and the empowerment of the disadvantaged sections is given considerable importance. Nearly 15,000 graduate and 3500 Post Graduate Engineers have passed out from this college during the last 57 years and are at present successfully employed in India & abroad. The College has also been identified as First QIP Centre of Punjab by All India council for Technical Education (AICTE) for Ph.D Programme and is one among the existing 42 QIP Centres including IITs at National Level. In last five years, the faculty has published around 225 research papers in National/Internal Journals and more than 450 papers in various conferences in India and abroad. Around 25 teachers have attended International conferences and other interactions under DST/AICTE/PTU travel grant program. More than 40% teachers are having Ph.D degree and another 40% teachers are pursuing Ph.D. 35 Research projects, Seminar Grants and STTPs have been granted by DST, AICTE, IE(I) and PTU to faculty members. A well-established library with 72,000 books, on-line Journals (ASME, Science Direct, IEEE etc.) & other Resources are available through INDEST. Science & Technology Entrepreneurs Park (STEP) was established by DST in 1987 and is successfully acting as an Incubator and training engineers to be entrepreneurs.

Vision

Realization of Glimpses of a Golden India in the real(rural) India which lives and abounds in its villages. GNDEC will excel nationally and distinguish itself as a recognized preeminent leader to serve this 70% Brotherhood through its socioeconomic upliftment by exposure of the have-nots to Engg. & Technology thereby grooming them as technically competent and intellectually-vital Graduates through practically focused quality learning experiences, and thus assuring productive Careers for them.





Mission

- Upliftment of Rural Students through technical education.
- Respond to local societal needs by developing selected 'targeted research projects'.
- Quality training programs in need based modern technology.
- To promote culture of self-employment.
- To impart non-formal education to unemployed youth.
- To inculcate moral, ethical, spiritual values in education at all levels

Address: Guru Nanak Dev Engineering College

Gill Park, Gill Road, Ludhiana 141006, Punjab (India).

Phone No. 0161-2502700, 0161-5064501

Fax No. 0161-2502240

Principal's Desk



Guru Nanak Dev Engineering College, Ludhiana (an autonomous college under UGC Act), established in 1956, was set up under the aegis of Nankana Sahib Education Trust, devoted to the cause of rural education to meet the growing demand for technical and professional manpower and industries. We are proud that this institution has consistently maintained its tradition of excellence in

the field of technical education till date. The college has been declared an autonomous college by UGC, New Delhi on

Dr. Sehijpal Singh

17.8.2012. The college has privilege of starting PhD degree

under Quality Improvement Programme (QIP) by AICTE, New Delhi. The college has been accredited with 'A' Grade by NAAC. The college has attained ISO 9001:2008 Certification and the UG programmes are accredited by NBA under the New Outcome Based System under Washington Accord. The institute imparts instruction in eleven Postgraduate M.Tech courses both on regular and part time basis. A dedicated research environment is provided to the researchers leading to PhD degree programme. The perseverance and dedication of the entire staff is so high that it is effervescent to evolve problem- solving strategies for the betterment of the students. Numerous ongoing projects by AICTE, MHRD, CSIR, TEQIP-II/FIST etc. further enrich the faculty and the institution. The college has been granted FM radio station under Community FM Scheme by the Centre. The college believes in strong

industry institute collaboration for which the testing and consultancy cell established by the college works rigoursly by sharing its expertise with industry. I take this opportunity to welcome the students from the core of my heart, and assure their parents that the college will further register tremendous progress on all fronts with its sincere, dedicated & progressive efforts.

Coordinator TEQIP Cell



Guru Nanak Dev Engineering College has been awarded TEQIP-III in the month of March 2019 under sub component 1.3 and Atal Bihari Vajpayee Government Institute of Engineering & Technology, Shimla (2011) is allocated as mentee institution to our institution. I along with our team work hard to achieve best quality in education, training and skills of our students and teaching/nonteaching staff. TEQIP provides us every type of support and full assistance for

Dr. Harwinder Singh

achieving this goal. We encourage faculty/staff and students to participate and attend various training sessions, FDPs, workshops, seminars, conferences etc. The students of all departments are provided remedial classes for weak subjects, GATE coaching classes and many other programs.

TEQIP Team

Name of Official	Designation
Dr. Harwinder Singh	Co-ordinator TEQIP
Prof. Ranjit Singh	Nodal Officer (Procurement)
Prof. Ardamanbir Singh Sidhu	Nodal Officer (Finance)
Dr. N.S. Bhangu	Nodal Officer (Academics)
Dr. Inderpreet Kaur	Nodal Officer (Equity)

Prof. Daljit Singh, Er. Prabhjot Kaur	MIS Officer
Prof. Jagdeep Singh	PMSS Officer
Mr. Harpreet Singh	Senior Scale Stenographer
Mr. Harpreet Singh	Ministerial Staff (Finance)
Mr. Harwinder Singh	Data Entry Operator

Events Organized

Level	Department	Event	Date	For Faculty/Staff/Stu dent	Type of Event
National	Institutional	Art of Living Yoga for Student Excellence and Learning Program	11th-16th April, 2019	Student	SELP
National	Computer Science and Engineering	Internet of Things	27th April, 2019	Faculty/Student	Expert Talk
National	Institutional	Quality Initiatives in Technical Education	7th May, 2019	Faculty	Expert Talk
National	Mechanical Engineering	Industrial Design-Introduction and Future Possibilities	13th May, 2019	Faculty/Student	Workshop
Departmental	Electronics and Communication Engineering	Pre-Training Orientation Program	3rd-19th June, 2019	Students	Pre-Training Orientation Program

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Departmental	Electrical	Pre-Training Orientation Program	3rd-19th June,	Students	Pre-Training
	Engineering		2019		Orientation Program
Departmental	Mechanical	Pre-Training Orientation Program	3rd-19th June,	Students	Pre-Training
	Engineering		2019		Orientation Program
Departmental	Production	Pre-Training Orientation Program	3rd-18th June,	Students	Pre-Training
	Engineering		2019		Orientation Program
Departmental	Computer	Pre-Training Orientation Program	3rd-18th June,	Students	Pre-Training
	Science and		2019		Orientation Program
	Engineering				
National	Library	Role of Library in NIRF Ranking	11th June,	Staff and	Workshop
	-		2019	Scholars	
National	Mechanical	Smart Manufacturing	18th June,	Faculty/Student/In	Expert Talk
	Engineering		2019	dustry	
National	Electrical	Creativity, Innovation and	20th June,	Faculty	Workshop
	Engineering	Entrepreneurship XLS Workshop	2019		
	5 5	(Simulation based training)			

Faculty Sponsored

Level	Department	Department Name and Designation		Event Name	Duration
National	Electronics and	Er. Chahat Jain (Assistant	Seminar	New Technology and Solutions at Hotel J	25th April,
	Engineering	Professor)		W Marriott, Chandigarh	2019
National	Electronics and	Dr. Munish Rattan	Seminar	New Technology and Solutions at Hotel J	25th April,
	Engineering	(Assistant Professor)		W Marriott, Chandigarh	2019
National	Electronics and	Er. Preeti Pannu (Assistant	Seminar	New Technology and Solutions at Hotel J	25th April,
	Engineering	Professor)		W Marriott, Chandigarh	2019
National	Electronics and	Dr. Balwinder Singh	Seminar	New Technology and Solutions at Hotel J	25th April,
	Engineering	Dhaliwal (Assistant		W Marriott, Chandigarh	2019
		Professor)			
National	Computer	Er.Gurjit Kaur (Assistant	FDP/STP	Recent Trends in Engineering and	6th-7th May,
	Science and	Professor)		Industry at Sardar Patel College of	2019
	Engineering			Engineering Mumbai	
National	Computer	Er. Jasmine Kaur	FDP/STP	Recent Trends in Engineering and	6th-7th May,

	Science and Engineering	(Assistant Professor)		Industry at Sardar Patel College of Engineering Mumbai	2019
National	Information Technology Department Er. Sandeep Kumar Singla (Assistant Professor)		FDP/STP	Predictive Analytics using 'R' at IIT Roorkee	13th-17th May, 2019
National	Electrical Engineering	Dr. Arvind Dhingra (Assistant Professor)	Workshop	Seed Training of Trainers Workshop on Eco-inclusive Enterprise Development at Zone Starts Up, Dalal Street Mumbai	20th-22th May, 2019
National	Applied Science Department			20th-24th May, 2019	
National	Applied ScienceDr. Randhir Singh (Assistant Professor)WorkshopExamination Reforms at Chitkara Institute, Patiala		24th May, 2019		
National	Civil Engineering	Civil Dr. Jagbir Singh Workshop Quality Initiatives in Teachnical and Higher			27th-29th May, 2019
National	Mechanical Engineering			27th-29th May, 2019	
National	Electronics and Communications Engineering	Er. Kuldeepak Singh (Assistant Professor	Workshop	Quality Initiatives in Teachnical and Higher Educational Institutions at ESCI Hyderabad	27th-29th May, 2019
National	Civil Engineering	Dr. Hardeep Singh Rai (Professor and Head)	Management Development Training	Dr. Hardeep Singh Rai (Professor)	27th-31st May, 2019
National	Electronics and Communication Engineering	Er. Ameeta Seehra (Associate Professor and Head)	Management Development Training	Professional Development Training at IIM Udaipur	27th-31st May, 2019
National	Mechanical Engineering	Dr. Harwinder Singh (Professor and Coordinator TEQIP)	Management Development Training	Professional Development Training at IIM Indore	27th-31st May, 2019
National	Information Techonolgy	Dr. Kirán Jyoti (Assistant Professor and Head)	Workshop	Pedagogy Workshop on Effective Teaching at IIT Guwahati	3rd -7th June, 2019
National	Mechanical Engineering	Er. Lakhveer Singh Khana (Assistant Professor)	Workshop	Pedagogy Workshop on Effective Teaching at IIT Guwahati	3rd -7th June, 2019
National	× ×	Èr. Charanjit Singh	Workshop	Pedagogy Workshop on Effective	3rd -7th June,

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	Engineering	(Assistant Professor)		Teaching at IIT Guwahati	2019
National	Electronics and	Er. Navneet Kaur	Workshop	Pedagogy Workshop on Effective	3rd -7th June,
	Commincation	(Assistant Professor)		Teaching at IIT Guwahati	2019
	Engineering				
National	Computer	Er. Gagandeep Kaur Gill	Workshop	Pedagogy Workshop on Effective	3rd -7th June,
	Science and	(Assistant Professor)		Teaching at IIT Guwahati	2019
	Engineering				
National	Electrical	Er. Amandeep Singh	STTP	Microgrid Renewable Energy	6th-11th June,
	Engineering	(Assistant Professor)		Technologies at IIITDM Kancheepuram	2019
				Chennai	
National	Electrical	Er. Baljeet Singh (Assistant	STTP	Microgrid Renewable Energy	6th-11th June,
	Engineering	Professor)		Technologies at IIITDM Kancheepuram	2019
				Chennai	
National	Mechanical	Er. Deepak Dhand	FDP/STP	Recent Advancements in Materials	10th-14th
	Engineering	(Assistant Professor)		Processing and characterisation at IIT	June, 2019
				Roorkee	
National	Electrical	Dr. Arvind Dhingra	STC	Clear Energy Technologies at IIT	10th-14th
	Engineering	(Assistant Professor)		Guwahati	June, 2019
National	Computer	Dr. Inderjit Singh Dhanoa	FDP/STP	Collaborative data processing & Resource	10th-14th
	Science and	(Assistant Professor)		optimization in IOT at NIT Surat Gujrat	June, 2019
	Engineering				
National	Information	Dr. Pankaj Bhambri	FDP/STP	Collaborative data processing & Resource	10th-14th
	Technology	(Assistant Professor)		optimization in IOT at NIT Surat Gujrat	June, 2019
	Department				
National	Electrical	Er. Rupinderjit Singh	STC	Professional Development Training at IIM	17th-21st
	Engineering	(Associate Professor)		Indore	June, 2019
National	Information	Er. Sandeep Kumar Singla	FDP/STP	Advancement in Remote Sensing Data	17th- 21st
	Technology	(Assistant Professor)		Analysis at IIT Roorkee	June, 2019
National	Civil	Er. Prabhjot Singh	FDP/STP	Application of Total Station and DGPS for	24th-28th
	Engineering	(Assistant Professor)		projects includes field practices at ESCI,	June, 2019
				Hyderabad	
National	Civil	Er. Pardeep Singh Joia	FDP/STP	Application of Total Station and DGPS for	24th-28th
	Engineering	(Assistant Professor)		projects includes field practices at ESCI,	June, 2019
				Hyderabad	
National	Production	Dr. Jagdeep Singh	FDP/STP	Introduction to MATLAB PSCAD and	24th-28th

	Engineering	(Assistant Professor)		LaTeX for Researchers at NIT Srinagar	June, 2019
National	Production	Er. Kanwalpreet Sahni	FDP/STP	Introduction to MATLAB PSCAD and	24th-28th
	Engineering	(Assistant Professor)		LaTeX for Researchers at NIT Srinagar	June, 2019

Staff Sponsored

Level	Department	Name and Designation	Nature of Program	Event Name	Duration	
National	Information Technology	Mr. Amandeep Singh Bhathal (Lab Attendant)	STC	Smart Classroom: Concept, Design, Operation & Maintenance at NITTTR Chandigarh	10th-14th 2019	June,
National	Library	Mr. Avninder Singh (Library Assistant)	STC	Information Literacy and Life Long Learning at NITTTR, Chandigarh	17th-21th 2019	June,
National	Library	Mrs. Vipaljit Kaur (Library Restorer)	Workshop	Library Automation and Digitization at University of Delhi South Campus at New Delhi	17th-21th 2019	June,
National	Library	Mr. Harminder Singh (Library Assistant)	Workshop	Library Automation and Digitization at University of Delhi South Campus at New Delhi	17th-21th 2019	June,

Students Sponsored

Level	Branch	Roll No	Name	Nature of Program	Event Name	Duration
National	Electrical	1606882	Mr. Prashant Singh	Workshop	Internet of Things at IIT Ropar	30-31st March,

	Engineering					2019
National	Electrical Engineering	1606838	Mr. Bishwajeet Kumar	Workshop	Internet of Things at IIT Ropar	30-31st March, 2019
National	Electrical Engineering	1606859	Mr. Indrabhusan Kumar	Workshop	Internet of Things at IIT Ropar	30-31st March, 2019
National	Electrical Engineering	1606840	Mr. Deepak Kumar	Workshop	Internet of Things at IIT Ropar	30-31st March, 2019
National	Electrical Engineering	1606844	Mr. Guddu Kumar	Workshop	Internet of Things at IIT Ropar	30-31st March, 2019
National	Electrical Engineering	1606890	Mr. Rishabh Nadan Pal	Workshop	Internet of Things at IIT Ropar	30-31st March, 2019
National	Mechanical Engineering	1707124	Ms. Grisha Sohal	Event	Cadathon at IIT Ropar	30-31st March, 2019
National	Mechanical Engineering	1607341	Mr. Sahibjit Singh	Event	Cadathon at IIT Ropar	30-31st March, 2019
National	Mechanical Engineering	1630146	Mr. Pardeep Singh	Event	Cadathon at IIT Ropar	30-31st March, 2019
National	Mechanical Engineering	1607287	Ms. Kulwinder Kaur	Event	Cadathon at IIT Ropar	30-31st March, 2019
National	Computer Science and Engineering	1606670	Ms. Divya Noor	Workshop	Artificial Intelligence at IIT Ropar	30-31st March, 2019
National	Computer Science and	1606668	Mr. Darshpreet Singh	Workshop	Artificial Intelligence at IIT	30-31st March,

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	Engineering				Ropar	~~~~			2019	
National	Computer Science and Engineering	1606698	Mr. Jagdish Singh	Workshop	Artificial Ropar	Intelligence	at	IIT	30-31st 2019	March,
National	Computer Science and Engineering	1606721	Mr. Kaushal Bansal	Workshop	Artificial Ropar	Intelligence	at	IIT	30-31st 2019	March,

Industrial Visit

Course	Department	Name of Industry Visited	Date of Visit
B.Tech	Electrical Engineering	National Power Training Institution Nangal	18th April, 2019

Twining Activities-I

Date	Purpose	Officials
15 March,	College officials visited NPIU,	Dr. Harwinder Singh (Professor and Coordinator TEQIP), Er. Daljit Singh (Astt. Pro.
2019	Delhi	ECE), Er. Jagdeep Singh (Assistant Professor IT), Mr. Harpreet Singh (TEQIP Clerk)
16 March,	Nomination of Faculty	Mr. Kuldeep Singh member of Academic Council, Mr. Ravi Kumar member of BOS
2019	Members for Academic Council	CSE, Mr. Ajeet Thakur member of BOS ECE, Mr. Sunil Sharma member of BOS
	and BOS at GNDEC Ludhiana	Applied Science
18 March,	Delivered guest lecture at	Dr. A.K. Chaudhary Associate Prof. Textile Technology Dept. NIT Jalandhar
2019	ABVGIET, Shimla	

25 March,	Officials of ABVGIET, Shimla	Dr. M.K. Jha Director-cum-Principal, Mr. Kuldeep Singh AP Mathematics & TEQIP
2019	visited our College for finalizing	Coordinator, Mr. Ajeet Thakur AP ECE &NO Academics
	Twining Plan	
29 March,	Delivered guest lecture guest	Dr. R. Jha Retd. Principal NIT Hamirpur, Dr. Pramod Kumar Professor CSE ABVIIITM
2019	lectures at ABVGIET, Shimla	Gwalior MP
18th April,	College Officials visited	Er. Amanpreet Singh Brar (Associate Professor CSE), Dr. Randhir Singh (Assistant
2019	ABVGIET, Shimla	Professor Physics), Er. Navneet Kaur (Assistant. Pro. ECE), Er. Karamvir Kaur
		(Assistant Professor CP)
18th April,	Guest lecture at ABVGIET,	Dr. Prabhat Kumar Jha Ex. DGM Maruti Suzuki India
2019	Shimla	
13 June-	Summer internship by ECE	Students from ABVGIET, Shimla
10 July,	Department at GNDEC	
2019	Ludhiana	

Twining Activities-II

Level	Department	Event	Date	For Faculty/Staff/Student	Type of Event
National	Institutional	Pedagogical Tools & Techniques- Effective Teaching & Comprehensive Progress	27th May-01st June, 2019	Faculty	FDP
National	Electronics and Communication Engineering	Enabling Technologies for Wireless and Optical Networks	10th June-14th June, 2019	Faculty	FDP
National	Computer Science and Engineering	Data Analytics- Trends and Applications	24th June- 29th June, 2019	Faculty	FDP



Department	Package Name	Proc. Method	Status
Civil Engineering	Environmental Engineering Lab Equipment	Shopping	Quotation Opening
Computer Centre	Upgradation of Central CC facilities	Shopping	Invitation
Computer Science and Engineering	Research Lab	Shopping	Invitation
Information Technology	HPC Cluster facility (High Performance Computing)	Shopping	Invitation
Computer Science and Engineering	Project Lab	Shopping	Invitation
Information Technology	Establishment of New lab	Shopping	Invitation
Civil Engineering	Survey Lab	Shopping	Invitation
Computer Science and Engineering	Desktop Computers	Shopping	Invitation
Computer Science and Engineering	Hardware Lab	Shopping	Invitation
Electronics and Communication Engineering	Drill bit set	Shopping	Invitation
Electrical Engineering	Power System Lab	Direct Contracting	Purchase Order

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Electronics and Communication	Software MATLAB	Direct	Purchase Order
Engineering		Contracting	
Electronics and Communication	Xilinx Vivado Design Suite	Direct	Purchase Order
Engineering		Contracting	
Electronics and Communication	Optical Communication Trainer kit with additional Module	Direct	Invitation
Engineering		Contracting	
Computer Science and	Research Operating System Lab	Direct	Invitation
Engineering		Contracting	
Library	Wiley E-books	Direct	GRN & Payments
		Contracting	
Library	McGraw Hill Books	Direct	GRN & Payments
		Contracting	
Library	Pearson E Books	Direct	GRN & Payments
		Contracting	
Library	Hard Copy Books	Direct	Purchase Order
		Contracting	

Reimbursement of fee for Higher Education

Department	Name and Designation	Institution where Registered	Purpose
Electrical Engineering	Er. Shivani Arora Abrol (Assistant Professor)	Lovely Professional University Jalandhar	Semester Fee

Mechanical Engineering	Er. Prem Singh (Assistant Professor)	Punjabi University Patiala	Annual and Lab Fee
Mechanical Engineering	Er. Harnam Singh Farwaha (Assistant Professor)	Punjabi University Patiala	Annual and Lab Fee



Name of Meeting	Date	
155th BOG Meeting	05 December, 2018	
Tenth Academic Council Meeting	02 March, 2019	
156th BOG Meeting	19 March, 2019	
IQAC Meeting	21 April, 2019	
Domadial Classon		

Course	Department	Subjects
B.Tech	Computer Science and Engineering	Mathematics-I, Mathematics-II, Mathematics-III, Discrete Structure, Theory of Computation
B.Tech	Mechanical Engineering	Engineering Drawing
B.Tech	Civil Engineering	Strength of Materials, Design of Steel Structures-I
B.Tech	Information Technology	Theory of Computation, Probability and Statistics, Data Structures, Digital Circuits and Logic Design, Database Management System, Programming in JAVA
B.Tech	Electronics and Communication	Network Analysis and Synthesis, Object Oriented Programming

	Engineering	
B.Tech	Electrical Engineering	Industrial Electronics, Electronics Devices and Circuit
B.Tech	Production Engineering	Operational Research



GATE Capsule course organized for all the departments. The expert trainers were hired from GATE Revolution for best training tips and tricks required for cracking the entrance.



Dr. Harbhajan Singh Shan has been appointed as Senior Research Advisor in TEQIP Cell.

Glimpses of Events

Art of Living Yoga for Student Excellence and Learning Program



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Pedagogical Tools & Techniques- Effective Teaching & Comprehensive Progress



Enabling Technologies for Wireless and Optical Networks



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Role of Library in NIRF Ranking



TEQIP Newsletter April-June 2019 Creativity, Innovation and Entrepreneurship XLS Workshop (Simulation based training)



Media Coverage





- Induction programs for first year students admitted in 2019
- Employability Skill Test for all year students