



REPORT

PROJECT EXPO – 2026

(Final Year Project Competition)

In Association with

BVM Alumni Association

Event Date:

04th April 2026

Organized by

Industry Institute Interaction Cell

Birla Vishvakarma Mahavidyalaya

Engineering College

(An Autonomous Institution)

Vallabh Vidyanagar, Gujarat, India



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About Project Expo:

Birla Vishvakarma Mahavidyalaya Engineering College, Industry Institute Interaction Cell has organized Project Expo for final year engineering students on 04th April 2026. There are 39 jury members from the various reputed industry/organization were invited to judge the projects. There were total 363 industry defined projects and 52 user defined projects demonstrated during the event. Best 03 teams from each discipline of major projects and minor projects were awarded by the prizes and also some teams were approve for the further mentoring support from the various industries.

The event was started with registration process at 8:30 am at the respective department. The projects were evaluated at respective department from 09:00 am onwards. The valedictory ceremony of the project expo was arranged from 02:30 pm onwards at BVM Auditorium.

Objectives:

- To empower every student to achieve their truest potential.
- To realize engineering passion with respect to build something innovate for the future.
- To enhance industry and institute interaction.
- To motivate students for present their innovative ideas.

Outcomes:

Experts from industries have evaluated the student's projects and gave their valuable remarks and feedback on the topic of the project and interacted with students about how to improve the quality of the work and project at large. Students were able to fulfil the objectives of the creative thinking while preparing the posters.

- Students were able to
 - i. Efficiently present their idea.
 - ii. Design the poster with all technical aspects.
 - iii. Visually represent the key points.



**BIRLA VISHVAKARMA MAHAVIDYALAYA
(ENGINEERING COLLEGE)**

[An Autonomous Institution]

NAAC Accredited: 'A' Grade

Managed by Charutar Vidya Mandal



Chief Patron
Er. Bhikhubhai B. Patel
Chairman, CVM

**Industry Institute Interaction (III) Cell in Association
with BVM Alumni Association & SSIP BVM**

Organizes

PROJECT EXPO 2026
(FINAL YEAR PROJECT COMPETITION)

Date: 4th APRIL, 2026
Time: 09:30 am to 5:00 pm



President
Prof. (Dr.) Vinay J. Patel
Principal, BVM

Dr. Rashesh Mehta
Convener, Project Expo 2026

Dr. Darshan C. Dalwadi
Co-Convener, Project Expo 2026

Venue: BVM Auditorium & Respective Department

Event Poster

Project Evaluation at Department Level

(1) Glimpses of Civil Engineering Department

The project evaluation by the jury members was done for all the projects presented by the students in D-201 till 1:30 PM. The Industrial Expert for the project expo were: Er. Siddharth A. Moteriya (Director, SAM Structure Consultant, Rajkot), Dr. Samarth Y. Bhatia (Transport Planner, Systra MVA Consulting, Ahmedabad), Er. Parth Bhanushali (Professional Engineer, Techstudio Services), Dr. Pinakin N. Patel, Dr. Pratiti Bhatt, Prof. Hemang Gadhavi and Prof. Gunjan Chauhan were internal experts appointed for the evaluation. Experts had evaluated all the projects unanimously and also gave their expert feedback to the students for improving their work carried out. Total 19 Minor Projects and 17 Major Projects were presented to the Industrial experts.





Best 3 projects from Civil Engineering Department

Minor Project:

Prize	I.D. No.	Name	Faculty Guide	Title of Project
1 st	22CE003	Aaradhana Sumesara	Dr. S. V. Mevada Prof. H. H. Gadhavi	Experimental & Analytical Investigation to study the behaviour of structures subjected to dynamic excitation
	22CE009	Smital Gamit		
	22CE028	Shrushti Damor		
	22CE029	Mitali Ganvit		
2 nd	23CE340	Ankit Undhad	Prof. V. B. Patel Dr. P. M. Bhatt	Design and Evaluation of Concrete Using Titenum Dioxide
	23CE341	Rutvik Jethava		
	23CE348	Raj Chavda		
	23CE352	Parth Valani		
	23CE381	Priyanshu Parmar		
2 nd	22CE005	Mihir Chaudhari	Prof. D. S. Parmar Prof. Divyang Chauhan	Smart parking system using IoT and Android Application
	22CE006	Ankit Chaudhari		
	22CE007	Siddharth Rathod		
	22CE019	Arjun Thakor		
	22CE093	Neel Patel		
3 rd	23CE327	Jigar Bhatiya	Dr. H. J. Chauhan Prof. Gunjan Chauhan	Effective Mass Transportation Planning for Anand City
	23CE379	Maru Karan M		
	23CE387	Khachar Jaydevbhai		

Major Project:

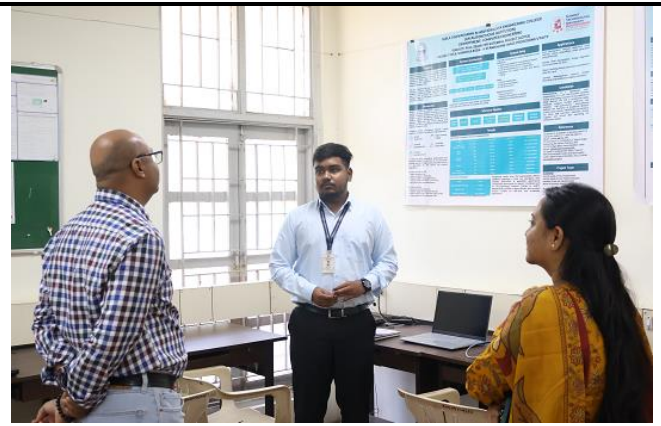
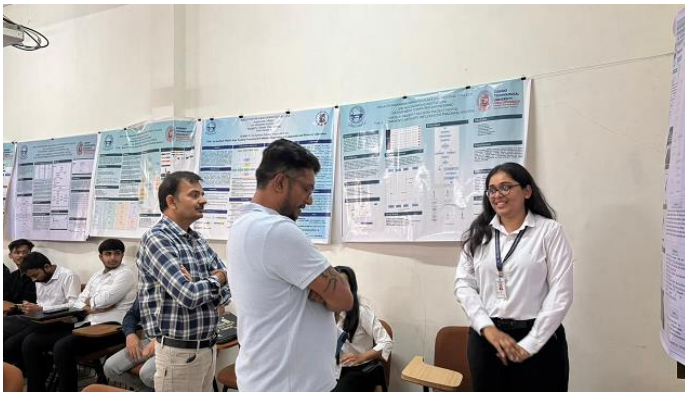
Prize	I.D. No.	Name	Faculty Guide	Title of Project
1 st	22CE063	Vala Ajay jagdishbhai	Prof. A. A. Amin Dr. P. N. Patel	Performance Evaluation of Urban Intersections Using VISSIM and AI-Assisted Traffic Data
	22CE080	Jadav Chintankumar Chimanbhai		
	22CE701	Neena Devi		
1 st	23CE305	Keshav Sharma	Dr. V. V. Agrawal Prof. S. B. Patel	Climate-Resilient Amphibious House: A Structural Solution for Flood-Affected Regions in India
	22CE013	Prayag Patel		
	22CE065	Ved Bhatt		
	22CE016	Divyrajsinh Vachhani		

	23CE304	Jadav Mihir		
2 nd	23CE306	Kartik M. Mokani	Prof. J. R. Prajapati Prof. M. Vasava	BIM and GIS for Construction Project Management
	23CE302	Het H. Patel		
	23CE307	Vishvarajsinh Parmar		
	23CE308	Siddharth B. Joshi		
3 rd	22CE033	Bhavya Bhaveshbhai Shah	Prof. R. R. Vashi Prof. Umang Shah	A study on black cotton soil stabilization with geogrid, Metakaolin and PVC waste
	22CE014	Ansh Nimit Patel		
	22CE071	Priyank Jitendra Rabadiya		
	23CE351	Sanjana Vijaybhai Baraiya		

(2) Glimpses of Computer Engineering Department

The project evaluation by the jury members was done for all the projects presented by the students in F-207, F-208, F-209, F308, F311A, F311B, F-409A, F-409 and F-411 till 1:30 PM. The event provided a platform for students to present their major projects to a panel of experts, faculties, and students. The esteemed panel of experts for comprised of (1) Mr. Kamal Chandarana, BVM Alumni (Self Employed) (2) Mr. Sunil Rana, Founder and CEO, CXNext Technologies Pvt. Ltd. (3) Mr. Naresh Khalasi, SVP Engineering, Vay Network Services Pvt. Ltd. (4) Mr. Ronak Barot, Founder and CEO, Stallermind.ai (5) Mr. Paresh Masali, Founder and CEO, Helius Wellness Pvt. Ltd. (6) Mr. Nisarg Jani, FSE Lead, Cognizant (7) Mr. Harmit Mendapara, Project Manager, Alian Software (8) Mr. Nirav Sanghavi, Senior Director, Sophos (9) Mr. Hiren Dave, Head of Engineering, MSBC Group. A total 88 projects were demonstrated from Computer engineering department.





Student evaluated by industry expert





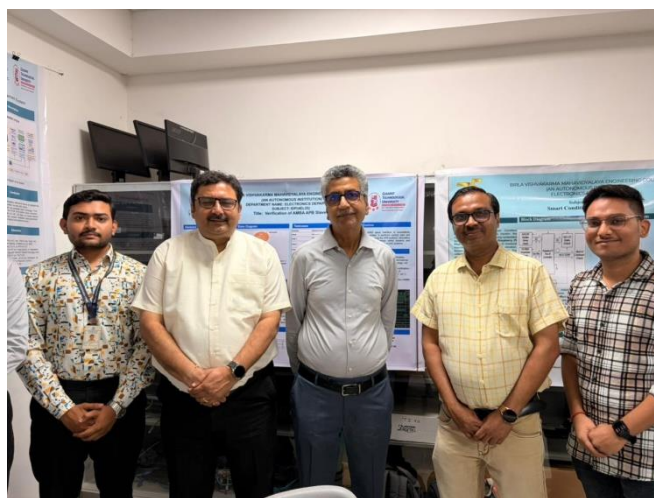
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RANK	ID NO	NAME	FACULTY GUIDE	PROJECT TITLE
1	22CP003	Nisarg Soni	Dr. U K Jaliya, Prof. Uravashi Gohil	ForexSaarthi
2	22CP051	Khushi Gohil	Prof. Parimal Solanki, Dr. D G Thakore	Smart Medical Waste Monitoring System
3	23CP317	M Naga Sai Arjun	Dr. Mahasweta Joshi, Prof. Adit Vyas	Decision Intelligence System

(3) Glimpses of Electronics Engineering Department

The project expo event organized in BVM engineering college on 4th April 2026. At Electronics Engineering Department under the guidance of Dr. T D Pawar-HOD EL, Dr Deepak Vala is the coordinator and Dr. D. M. Patel, Dr. J. M. Rathod, Dr. Mehfuza Holia, Dr. K. D. Patel, Prof. Milendra Solanki, and Prof. A. A. Daiya are internal expert of the EL department in project expo 2026. The event successfully organized. The distinguished industrial experts for the event included Mr. Bhaskar Trivedi, Vice President, Technology Solutions, Intech Systems, Ahmedabad; Mr. Himanshu Ankleshwaria, Sr. Engineer, SLS, Anand; Mr. Pinal Patel; Mr. Keyur Mahant, Sr. Engineer, eInfochips, Ahmedabad; and Ms. Heena Chauhan, Wehear, Ahmedabad. At the end of the event, the best three projects in the Major Project category were selected by the industrial experts. The prizes were distributed during the valedictory function held at the BVM Auditorium.



Best 3 projects from Electronics Engineering Department

(1) Major Project

RANK	ID NO	NAME	Project Title
1	22ELo44	Paghadar AkshayKumar Narsinhbhai	Smart Three- phase motor automation and real-time monitoring System For agriculture and Industry
1	22ELo69	Krinal Prajapati	wireless optical communication using FPGA
2	22ELo36	Devang Gajjar	Optical communication technologies
2	22ELo73	Ansh Pandey	VLSI
3	22ELo61	Dhanraj Zaveri	Kinematics Solution for Parallel Manipulator Robot
3	22ELo15	MAYANK VISHWAKARMA	Development and Implementation of a 24 GHz FMCW Radar-Based Presence Detection System with Embedded Firmware and GUI Interface
	22ELo02	Dhruv Gandhi	



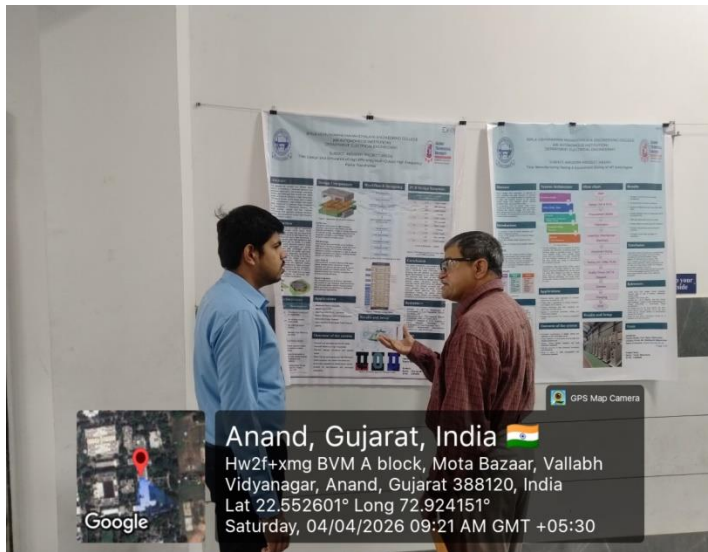
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(4) Glimpses of Electrical Engineering Department

The project evaluation by the jury members was done for all the projects presented by the students in Ground floor, A-block till 1:30 PM. Total 5 experts were there from industries: Dr. Vithal N. Kamat, Managing Director, Baroda Electric Meters Ltd., GIDC, Vithal Udyognagar, Er Hirenkumar D Patel, Trainer-BMS (Assistant Manager) Tata Indian Institute of Skills (Tata IIS) Ahmedabad, Mr. Shreelal Jha, Freelancing R&D Consultant, Designer and Innovator, Chairman, Parth Electronics Pvt. Ltd. (PEPL), Vithal Udyognagar, Er. Keval Velani, Technical Consultant, Hitachi Energy India Limited, Vadodara, Dr Suresh Mogilicharla, OT Cybersecurity Architect. Power Profs Inc., Vadodara. The internal experts were: Dr. Akshay Pandya, Project Coordinator, •Prof. Dharita Patel, Member, Prof. Swapnil Arya, Member. A 38 industry projects and 14 internal projects were demonstrated from Electrical engineering department.





Best 3 projects from Electrical Engineering Department

(1) Minor Project

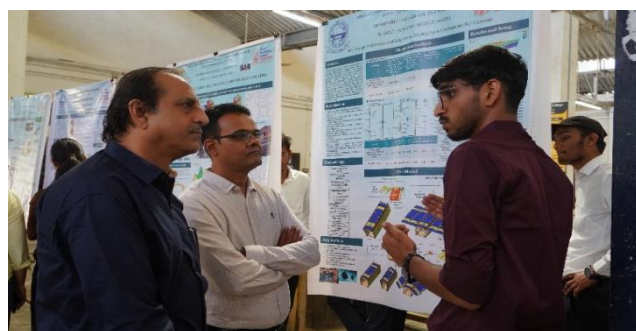
	ID No.	Name of students	Faculty Guide	Title of project
1 st Prize	22EE014	Tejas Bheda	Prof. Swapnil Arya	Regenerative Braking System Using BLDC Motor
	22EE050	Pankaj Nayi		
	22EE056	Vishal Suva		
2 nd Prize	22EE006	Abhaykumar Patel	Dr. R. P. Mehta/ Prof. Ajay Patel	Testing of Relays using CMC-500 Omicron Relay Test Set
	22EE019	Kanechiya Dishant		
	22EE003	Prajapati Prince		
3 rd Prize	22EE063	Kachhetiya Kishan	Prof. Swapnil Arya	Electromagnet Design for Industrial Applications
	22EE039	Pansheriya Jainish		
	22EE059	Baraiya Parth		

(2) Major Project

	ID No.	Name of students	Faculty Guide	Title of project	Name of Industry
1 st Prize	22EE023	Dhairya Contractor	Prof. Manish Sinha	Design of a low profile planar Multi-Output Power Electronic Transformer with minimum leakage reactance and leakage flux for high frequency application.	ISRO
2 nd Prize	23EE319	Milan Nandwana	Prof. Manish Sinha	Analysis of Manufacturing processes of Power Transformer.	Transformers and Rectifiers (India) Limited
3 rd Prize	22EE201	Adit Jayanti	Prof. Dharita Patel	BLDC motor on a test rig and the preparation of industry ready test report, as per the requirement of NABL.	Electric Vehicle Motor Testing (Centre of Excellence).

(5) Glimpses of Mechanical Engineering Department

For the students of Mechanical Engineering, the expo was conducted at Central Workshop, BVM. Total 19 Minor Projects and 47 Major (Industrial) Projects were presented to the Industrial experts. The Industrial Expert for the project expo were: Mr. Jigish Patel (Siddhi Engineers), Mr. Mitesh Shah (JM Engineers), Mr Hirenkumar Mavani (ISRO), Mr. Kulvish Patel (Rhino Machines), Mr. R. G. Jivani (Siddharth Enterprise). Dr. A. B. Damor, Prof. J. R. Koisa, Dr Vishal Pandya, Dr. Ashish Thakkar and Prof. Chintan Mazmudar were internal experts appointed for the evaluation. Experts had evaluated all the projects unanimously and also gave their expert feedback to the students for improving their work carried out.





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Best 3 projects from Mechanical Engineering Department

(1) Minor Project

Prize	I.D. No.	Name	Faculty Guide	Title of Project
1 st	22ME025	KESHAVKUMAR A. PATEL	KKD	Human following Industrial trolley
	22ME017	KOLINS P. GOHEL		
	22ME024	VEDKUMAR P. PATEL		
	22ME034	OM N. JANI		
2 nd	22ME062	Dev Mengar	VRS	Experimental and Microstructural Analysis of Fly Ash and MoS ₂ Reinforced Aluminum Matrix Composites
	22ME057	Ayush Tailor		
	22ME048	Arick Dhamsania		
	22ME033	Jeel Hadvani		
3 rd	22ME106	Angel Kirit	JKP	Design & Development of a vector thruster based Remotely Operated Vehicle (ROV)
	22ME110	Rudra Gajara		
	22ME409	Yagnik Mesvaniya		
	22ME086	Chauhan Rahul S.		

Major Project

Prize	I.D. No.	Name	Faculty Guide	Title of Project
1 st	23ME613	Jaimin Joshi	AMT	Dimension Deviation After Heat Treatment Due To Distortion
2 nd	22ME115	Chaudhary Govindkumar N.	HGK	Design and Development of Solar Panel Deployment Mechanism for Cubesat
	22ME058	Hem Vashi	JRK	Vision-Based Pick and Place Automation Using OMRON TM5 700 Collaborative Robot (COBOT)
3 rd	23ME307	Vegad Meet B.	VDC	Solar Photo catalysis for treatment of agricultural runoff wastewater
	23ME306	Mungra Prashant V.		
3 rd	22ME056	Singh Rishabhraj R.	MIK	Heat Load Estimation and AHU Blower Selection for Class C Cleanroom with Fire Safety Integration



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(6) Glimpses of Production Engineering Department

The day began with a formal inaugural ceremony at the Department level, followed by project evaluations held in Room C222. A total 7 major (industrial) projects were presented, reflecting the students' practical understanding and technical capabilities. The evaluation panel comprised both external and internal experts, who thoroughly assessed the projects and provided insightful feedback. The external evaluators included: Mr Sarath R Nair, Director, Iron Build Systems Private Limited, V U Nagar. The internal evaluators were: Dr. H. S. Beravala, Prof. Jatin Makwana.





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Best 3 projects from Production Engineering Department

Sr. No.	ID No.	Name of students	Title of project
1 st Prize	23PE303	Prashant M. Talpada	"Design & Development Of An Attachment For Extruder Application To Withstand High Axial Thrust."
2 nd Prize - 1	23PE301 21PE025	Neel Mitesh Trivedi Adit Tushar Rana	"Gear Case Casting Defect Reduction and Improvement Using Quality Tools" "Parametric Modelling of Main Girder of 10T to 120 T DG EOT Crane"
2 nd Prize - 2	21PE008 22PE003	Kavita A Thakor Ankit singh	"Robotic Pick and Place Mechanism for Manual Handling of Tin Cans"
3 rd Prize	23PE302 22PE004	Om Gohel Rohit Singh	"Design & Development Of An Attachment For Extruder Application To Withstand High Axial Thrust."



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(7) Glimpses of Electronics and Communication Engineering Department

The jury members from EC Department Mr. Dhaval Shah (Director, Omnisense Technologies PVT LTD) and Mr. Bhavesh Jaiswal (Project Manager, Modsonic) started evaluating the project from 09:30 am onwards at EC Department. Dr. Bhargav Goradiya (Head EC and Internal Expert), Dr. Darshan Dalwadi (Coordinator of the event and Internal Expert), Dr. Anish Vahora (Coordinator of the event and Internal Expert), staff members of EC department and the student participants of EC department were also present.





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Best 3 projects from Electronics and Communication Engineering Department

(1) Major Projects:

Sr. No	ID NO	Name of Students	Title of Project
1st Prize	22EC409	DEVANI MEET RASIKBHAI	S.W.A.P (System With Adaptive Payloads) for Drone
2nd Prize	22EC422	BHATT UDIT D.	Ultrasonic Thickness Gauge(UTG)-firmware upgrade and assembly to C conversion
3rd Prize	22EC410	MUNUKUTI CHAITANYA	Vision-Based Pick and Place Automation Using OMRON TM5 700 Collaborative Robot (COBOT)
3rd Prize	23EC601	DHRUMIL RUPERA	Design and Development of a PCIe Based Video Capture Card for Image Processing Applications



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(8) Glimpses of Information Technology Department

At Information Technology department, 67 groups of students of (Major (Industry) Project) had participated in this event. Students were invited to showcase their project through a poster as well as power point presentation/demonstration/video. The eminent experts invited as Jury members were: Mr. Ajay Thakkar, Senior Software Engineer, Multiplier, Mr. Kandarp Panchal, Cyber Security Expert, Cyber Security India managed by cyber secure innovation Pvt Ltd, Anand, Mr. Arpit G. Shah, Founder & CEO, Creative Werk Designs, Nadiad, Mr. Urmik Shah, Senior Manager, System Level Solutions, Anand, Mr. Kuldipsinh Parmar, Team Leader, Etech Energy Consultancy Pvt Ltd, Anand, The internal expert committee was comprised of: Dr. Nilesh Prajapati, Prof. Dharmesh Patel, Prof. Prachi Shah, Prof. Dipika Prajapati, Prof. Jigisha Trivedi.





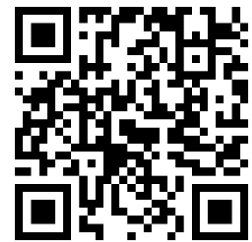
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Best 3 projects from Information Technology Department

(1) Major Projects:

Rank	ID No.	Name of students	Faculty Guide	Title of project	Industry
1st Prize	22IT435	Nit Patel	Prof. Disha D Panchal	Commerce Intelligence & Trust Engine	Appmixo
2nd Prize	22IT473	Lavisha Ulkesh Desai	Dr.Vatsal H Shah	Energy Hub : AI/ML Based Application Hub with Intelligent Chatbots For IIOT in the Energy Industry	PowerProf s
3rd Prize	22IT428	Jimmy Dudhwala	Prof. Jigisha S Trivedi	Sosana - The Token	Yogreet Global LLP



VISION:- "Produce globally employable innovative engineers with core values"

MISSION:-

- Re-engineer curricula to meet global employment requirements.
- Promote innovative practices at all levels.
- Imbibe core values.
- Reform policies, systems and processes at all levels.
- Develop faculty and staff members to meet the challenges.

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