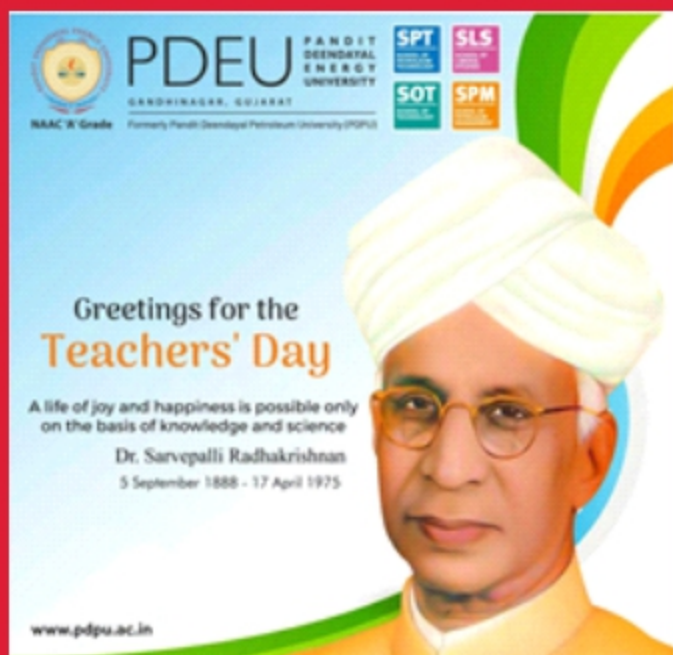


## 6th September 2021

### Teachers Day get-together

For all Faculty & Staff at PDEU Auditorium, The Event hosted by Mr. Sandesh Mahajan, Faculty at SLS, Dr. Uma Chaduvula, Faculty of Civil Engineering, Dr. S. Kachhwaha, Faculty of Mechanical Engg. enlightened all with his words of wisdom, followed by Director General, Dr. S. S. Manoharan and Prof. Tarun Shah, Registrar sharing and expressing the proud moments of achieving the Milestones at PDEU in the past few months by the constant efforts and support of Entire PDEU Fraternity.

Cherry on Top, As Shared by the Director General, PDEU is going to be the 1st University in India, to get its hands on a 3D Metal printer.



## 8th September 2021

### PDEU Rotaract Club under the guidance of PDEU Office of Student Activities, Involvement & Leadership

Was awarded 'Best Project of the Month - July 2021' for Sign Language Workshop.



## 14th September 2021

### School of Petroleum Management, PDEU, and the NTPC School of Business have signed an MoU

To collaborate on research projects in the Energy Sector Management. This is a significant turning point in our academic journeys and we strive to reach newer heights along the way.



## 9th September 2021

### NIRF INDIA RANKING 2021

PDEU has been ranked 73rd in University Category, 68th in Engineering Category, 66th in Management Category in NIRF (National Institutional Ranking Framework) 2021, Included in Top 100, as the only private university in Gujarat.



## 25th September 2021

### INDUSTRY CONNECT CONCLAVE 2021

25<sup>TH</sup> SEPTEMBER 2021

Organised by Department of Mechanical Engineering, School of technology, PDEU on 25th September 2021, 9:45am Onwards (Online Platform).



24th September 2021

## EGL-101 ventilators

Developed by Dr. S.S. Manoharan (Director General- PDEU) along with Chennai-based Eagle group, showed the value of Indigenous Ventilators during the Second wave of Covid19 pandemic.

### 'Second wave showed value of indigenous ventilators'

Parth Shastri  
@timesgroup.com

Ahmedabad: The second wave of Covid-19 underlined the need of oxygen for patients with severe infections and the importance of ventilators. While the pandemic motivated many India-based manufacturers to support the fight with indigenously-developed ventilators, the number remained small.

One such attempt was from Pandit Deendayal Energy University (PDEU) where Prof S Sundar Manoharan, the director general of PDEU, led efforts to develop a ventilator from scratch. The end result was the EGL-101 ventilator, which was developed along with Chennai-based Eagle Group.

"If we look closely, a ventilator requires amalgamation of different disciplines of engineering. To maintain pressure and air volume, we need physics. To

handle the equipment, we need algorithm for a quick response in choosing the right mode of activation where computer engineering comes to play. For the motherboard and air mixer, we need E&C and mechanical engineering respectively. All of this is topped by the need for a user-friendly functional design," said Prof Manoharan.

He said the trapezoidal rule helps monitor a patient's condition in wave form, based on which various modes are selected automatically or manually. "During the second wave, about 800 patients benefited from the 50-odd such ventilators used across Indian hospitals," he added.

The project started as an engineering challenge. "During the Covid period, PDEU worked on multiple projects - from antiviral fabric to image processing techniques. But the core idea was, what can

The project is an example of how different stakeholders including academia, private sector and government can come together and find an indigenous solution to problems such as development of a microprocessor-operated ventilator  
Prof S Sundar Manoharan  
DG, PDEU

we contribute as an engineering institute? The experience of the second wave prompted us to further fine-tune the machine," said the university DG.

The ventilator has a pediatric mode, assistive control mode, BiPAP and CPAP pressure support with non-invasive and inverse ratio ventilation and high-flow oxygen therapy, said the designers, adding that only a few attempts at university level for ventilators were seen in India, including one at IIT Kanpur. "The purpose of the project is both a demonstration of capability and to boost the Make in India initiative," said Prof Manoharan. "The second wave taught us the importance of indigenously-developed ventilators."

20th - 24th September 2021

## School of Petroleum Technology (SPT), PDEU & Office of International Relations (OIR), PDEU organized an international webinar series for the branch of Russian State University of Oil & Gas (National Research University) named after I.M. Gubkin in Tashkent, Republic of Uzbekistan.

More than 100 students & faculty members from the partner university participated in this webinar series and faculty members & industry experts from SPT taught them the knitty gritty of the Oil & Gas industry. This one of its kind initiative certainly paved the way to strengthen PDEU's relationship with the partner in Tashkent, Republic of Uzbekistan.

30th September 2021

## Global lecture series, by SLS, in Association with OIR and Salisbury University.

Lecture 1 on 30th September 2021 on Title " The Importance of Liberal Studies and Education" by Mr. Maarten Pereboom, Dean, Fulton School of Liberal Arts.

Salisbury University PDEU  
in association with  
OIR Office of International Relations  
CENTER OF CRITICAL THINKING  
**GLOBAL LECTURE SERIES**  
Speaker:  
MR. MAARTEN PEREBOOM  
(Dean, Fulton School of Liberal Arts)  
**The Importance of Liberal Studies and Education**  
30<sup>th</sup> September 2021  
Thursday | 9 - 10:15 am EST

25th September 2021

**Mr. VASU JAIN (AIR-67) and Ms. BABITARANI SWAIN (AIR- 464) in UPSC Civil Services 2020**, CCE-PDEU students secured All India Rank 67 and 464 in the UPSC Civil Services Exam- 2020.

CCE CENTRE OF CONTINUING EDUCATION PDEU PANDIT DEENDAYAL ENERGY UNIVERSITY  
NARS 'W' Grade  
**HEARTIEST CONGRATULATIONS TO**  
Mr. VASU JAIN AIR 67  
Ms. BABITARANI SWAIN AIR 464  
**FOR SECURING ALL INDIA RANK IN THE UPSC CIVIL SERVICES EXAM 2020**  
BEST WISHES FOR FUTURE ENDEAVOURS

PDEU PANDIT DEENDAYAL ENERGY UNIVERSITY  
Formerly Pandit Deendayal Petroleum University (PDEU)  
**INTERNATIONAL WEBINAR SERIES**  
for the branch of  
Russian State University of Oil and Gas named after I.M. Gubkin in Tashkent, Republic of Uzbekistan  
20th-24th September, 2021  
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