

Shri Ramdeobaba College of Engineering and Management

Annual Report 2021-22

THE TEAM

- GUIDING FORCE
 - EXECUTIVE COMMITTEE
 - STEERING COMMITTEE
 - ACADEMIC ADVISORY BOARD
-



H.E. BANWARILAL PUROHIT
Founder and Chairman
Emeritus

**Hon'ble Governor, Punjab and
Administrator, Chandigarh UT**

**Former Governor of Assam, Meghalaya
and Tamil Nadu**

**Philanthropist, Social activist and
Educationist**

**Mentor of largest circulating English
newspaper in Central India "The
Hitavada" which was started by Shri
Gopal Krishna Gokhale (mentor of
Mahatma Gandhi)**

**Vice President, Bharatiya Vidya Bhavan
Trust**



SHRI SATYANARAYAN NUWAL
Chairman, RCOEM

The founder of the 'Solar Group of Industries'

Adjudged amongst top 100 CEOs of India.

Market capitalization as of now is more Rs. 30,000 Crores.

Solar Group of Industries featured in Forbes Asia's list of "200 Best Under A Billion" companies of 2019.

Developing Drones and UAVs for combat role

Established an R & D Centre for development of Loitering Munitions for Precision Strike

EXECUTIVE COMMITTEE

RCOEM

Shri Ramdeobaba College of
Engineering and Management, Nagpur

SN	Name	Designation
1	Shri. Satyanarayan Nuwal	Chairman
2	Shri. Govindlal Agarwal	Vice Chairman
3	Adv. Chandrakantbhai Thakar	Vice Chairman
4	Shri. Rajendra Purohit	General Secretary
5	Shri. Kailash Chand Agrawal	Secretary
6	Adv. Pradip Agrawal	Secretary
7	Shri. Ashok Kumar Pacheriwala	Treasurer

EXECUTIVE COMMITTEE

Executing Committee Members

8	Dr. Purushottam Paldiwal	15	Shri. Sureshkumar Lohiya
9	Shri. Ramswaroop S. Sarda	16	Shri. Devendra Sahu
10	Shri. Shyam Sunder Rathi	17	Shri. Dinesh Agrawal
11	Shri. Bhagwandas Daga	18	Shri Rakesh Purohit
12	Shri. Indrakumar Agrawal	19	Shri Rajesh Sanghani
13	Shri. Sanjay Agrawal	20	Shri Sunilkumar Bhutada
14	Shri Padmesh Gupta	21	Shri Gopal Gupta

STEERING COMMITTEE

SN	Provision	Name	Designation
1	Steering Committee of Institute	Shri Shyamsunder Rathi	Chairman
2		Shri Govindlal Agarwal	Member
3		Shri Rajendra Purohit	Member
4		Shri Ashok Kumar Pacheriwala	Member
5		Adv. Pradeep Agarwal	Member
6		Shri Dinesh Agrawal	Member

ACADEMIC ADVISORY BOARD

• Padma Vibhushan Dr. Anil Kakodkar
Chairman, Academic Advisory Board,
RCOEM



• Padma Shri Dr. Nagarajan Vedachalam
Member, Academic Advisory Board,
RCOEM



• Dr. Mihir Kanti Chaudhury
Member, Academic Advisory Board,
RCOEM



TEMPLE COMMITTEE ACTIVITIES

- SPIRITUAL JOURNEY
- EVENTS ORGANIZED

EVENTS-2021-22



- **Major events organized**
 - Bhadva Mela (29 Aug – 5 Sept. 2022)
 - Annakoot 2021 (13th November 2021)
- **Numerous events were organized throughout year. Prominent activities were:**
 - Ganesh Sthapna (Green Initiative - Environment Friendly Alum Ganpati) Magh Mela
 - Celebration of Janamashtami
 - Hartalika Teej
 - Radha Ashtami
 - Baba ki Duj
 - Baba ka Byawala
 - Sundarkand
 - Bhajan Sandhya



THE INSTITUTE

- ACHIEVEMENTS
 - HIGHLIGHTS OF 2021-22
 - FACULTY ACHIEVEMENT
 - CENTER OF EXCELLENCE
 - PROMINENT EVENTS
 - SALIENT FEATURES
-

The details about **ranking** of the institute based on survey conducted by reputed agencies are as follows:



National Institutional Ranking Framework (NIRF), MHRD, Government of India.

NIRF 2022 - 146th Ranked



Competition Success Review (CSR) Survey

CSR 2021 - 21st Rank



Outlook's India's Best Professional College Survey

2021 - 32th Rank

NAAC - "A+" Grade with score of 3.35 (Valid till Feb 2027)

NBA Accreditation renewed for

- B.E. Electronics & Communication Engineering
- B. E. Computer Science and Engineering

RTMNU Conferred Jivansadhana Puraskar upon Shri Satyanarayan Nuwal, Chairman of RCOEM (4 August 2021)



3rd Graduation Ceremony (25 June 2022)

Batch of 2018-19, 2019-20 and 2020-21

- 4200+ Graduands attended the function
- 2000 in physical mode and 2200 virtual mode
- Padma Vibhushan Dr. Anil Kakodkar was the chief guest of the function



AICTE Stakeholders Meet (17 December 2021)



**Prof. Anil D. Sahasrabudhe
Hon'ble Chairman, AICTE**



**Shri Mukul Kanitkar, National Organizing
Secretary (Bharatiya Shikshan Mandal)**

Hackthon 2022 (26-27 August 2022)



Team ELYSIAN



Team Atmanirbhar

Both teams received Rs. 1 Lakh each

Gyanodaya-21(27 December 2021)



Online Induction Program(9-22 December 2021)



Bamboo Plantation Drive (4 September 2021)



Courses Merged/Change of Nomenclature

- B.E. **Industrial Engineering**- Merged with **Mechanical Engineering**
- B.E. **Electronics Engineering** - Changed to **Electronics and Computer Science**

Changes in Intake for Courses

Branch	Old Intake	New Intake
B.E. Computer Science Engineering	120	180
B.E. Computer Science Engineering (AIML)	60	180
B.E. Computer Science Engineering (DS)	60	120
B.E. Electrical Engineering	60	30

Research Grant Received

1.03 Crore Research Grant for Development of Coal Quality Exploration Technique based on Convolutional Neural Network and Hyperspectral Images have been received under NVIDIA (Centre of Excellence in the area of Artificial Intelligence and Machine Learning). The collaborating agency is **CIMFER-CSIR-Central Institute of Mining; Fuel Research Nagpur**. The project is coordinated by Dr. M B Chandak and Dr. Swati Hira.

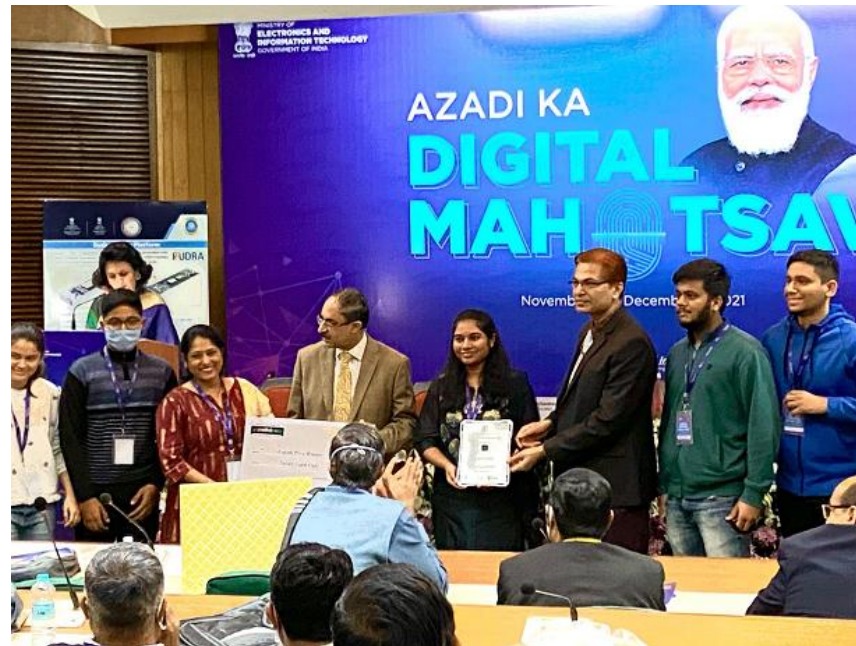


Swadeshi Microprocessor Challenge (Won prize of Rs. 25 Lakh)

Ms. Sangeeta Palekar Sammanwar, Research Scholar

Faculty mentors

- **Dr. (Mrs.) Jayu Kalambe (RCOEM, Nagpur)**
- **Dr. Rajendra Patrikar (VNIT, Nagpur)**



IEI Young Engineers Award

Dr. Sandeep Joshi, Assistant Professor of Department of Mechanical Engineering



Centers of Excellence

- **RCOEM-TATA CIIT** - RCOEM in association with Tata Technologies Ltd., has set-up the bench mark of excellence in Engineering & Technology education. The main centres with cutting edge technology tools, equipment and machinery to develop and impart the latest skills and knowledge offered at CIIT are
 1. Innovation Design and Incubation
 2. Integrated Advance Manufacturing Center
 3. Machine Learning Center and Internet of Things



■ Centers of Excellence

- **RCOEM-NVIDIA Center of Excellence for Artificial Intelligence, Machine Learning, Deep Learning and Data Analytics** - By Department of Computer Science & Engineering, Department of Information Technology and Department of Computer Applications.
- **Center of Excellence for Microsystems with Intellisence** - By Department of Electronics Engineering, Department of Electronics and Communication, Department Electronics Design Technology, Departments of Basic Sciences, and Department of Mechanical Engineering.
- **Energy Research Center** - By Department of Electrical Engineering and Department of Mechanical Engineering.
- **RCOEM-QCFI Center of Human Excellence** - By Department of Management Technology and III Cell of the college.

- **International and National Conferences** were organized in the Institution in collaboration with global partners

International Biomedical Engineering Conference - Multidisciplinary Perspective In Healthcare (IBMEC-2022) was organized by Department of Biomedical Engineering in association with Kingsway Institute of Health Sciences Pvt. Ltd. (2-3 Sept 2022)

Two Day Inter-disciplinary National Conference On Atmanirbhar Grameen Bharat- Empowerment Through Strategies and Appropriate Technology Research (AGRESAR 2022) was organized by Department of Management Technologies. (11-12 Feb 2022)

International Conference On Innovative Computing And Applications

Organized Information Technology Department in association with University of the District of Columbia, Washington, DC, USA (26-27 Nov 2021)

International Conference on Smart Strategies for Self Reliant Economy - An Industrial Engineering Perspective organized by Industrial Engineering Department in association with Indian Institute of Industrial Engineering (8-9 Oct. 2021)

■ Upcoming Conferences

International Conference on Recent Development in Mechanical

Engineering will be organized by Mechanical Engineering Department on 23-24 September 2022

Smart and Sustainable Technologies for Disaster Resilient Infrastructure

SSTDRI-22 will be organized by Civil Engineering Department on 29-30 September 2022



National Assessment and Accreditation Council (NAAC) Sponsored Workshop on **Reimagining Higher Education for Development and Empowerment: Teaching, Research and Innovation** was organized on August 29-30, 2022

PROMINENT EVENTS



One Week training program on "Workman
Practice Oriented Professional Training"
18-23 July 2022



Two day workshop on Advanced
Construction Techniques and
Artificial Intelligence under NEEV
2022

Most sought after institute in Central India

11 UG, 7 PG (Engg.), 2 PG (Mgmt.), 1 PG (MCA) and 6 Ph.D. programs

**Experienced, Qualified and Dedicated faculty:
244**

Faculty with Ph. D : 138

Faculty Cadre						
Professor	Associate Professor	Assistant Professor	Librarian	Visiting Faculty	Adjunct Faculty	Total
12	39	192	1	5	15	244

INTAKE OF THE INSTITUTE

- UG AND PG INTAKE
 - UNDER-GRADUATE PROGRAMMES
 - POST-GRADUATE PROGRAMMES
-

UG & PG INTAKE

Undergraduate Courses	1020	Total Intake 1416
Post Graduate Courses	396	

Admissions Process for 2022-23 is in progress

UNDER-GRADUATE PROGRAMMES

SN	Programme	Intake
01	Civil Engineering	60
02	Electrical Engineering	30
03	Electronics and Computer Science	120
04	Electronics & Communication	120
05	Information Technology	60
06	Mechanical Engineering	60
07	Biomedical Engineering	30

UNDER-GRADUATE PROGRAMMES

SN	Programme	Intake
08	Computer Science & Engineering	180
09	Computer Sc. & Engineering (AI & ML)	180
10	Computer Sc. & Engineering (Data Science)	120
11	Computer Sc. & Engineering (Cyber Security)	60

POST-GRADUATE PROGRAMMES

SN	Programme (M. TECH.)	Intake
01	Geo-Technical Engineering	12
02	Industrial Engineering	12
03	VLSI Design	12
04	Structural Engineering	18
05	Computer Science & Engineering	18
06	Power Electronics & Power Systems	12
07	Robotics & Automation	12

POST-GRADUATE PROGRAMMES

SN	Programme	Intake
08	M. C. A.	120
09	M. B. A.	120
10	M. B. A. (Integrated)	60

THE ADMISSION PROCEDURE

DISTRIBUTION OF SEATS

Stream	Centralized Admission Process (CAP) Quota	Institute Level (All India)	Linguistic Minority Quota (Maharashtra Domicile Candidates Only) – Through CAP
First Year B.E.	29%	20%	51 %
Second Year BE after Diploma	10% of the sanctioned intake of the branch	NIL	10% of the sanctioned intake of the branch
MCA/MBA/MTech	29%	20%	51 %

Quota for FN/PIO, OCI / Gulf NRI and NRI

Participation in Tuition Fee Waiver Scheme, Prime Ministers Special Scholarship Scheme

ACADEMIC PERFORMANCE

- RESULTS (SUMMER-2021)

AUTONOMY RESULTS –SUMMER 2021

SN	Programme	% Result
01	BE	98.72%
02	M Tech	80.16%
03	M.B.A	100%
04	M.B.A(INT)	97.83%
05	MCA	95.28%

INDUSTRY INTERACTION

- PLACEMENT (2021-22)
 - RCOEM TBI FOUNDATION
 - CONSULTANCY SERVICES
 - IQAC ACTIVITIES
-

OUR RECRUITERS

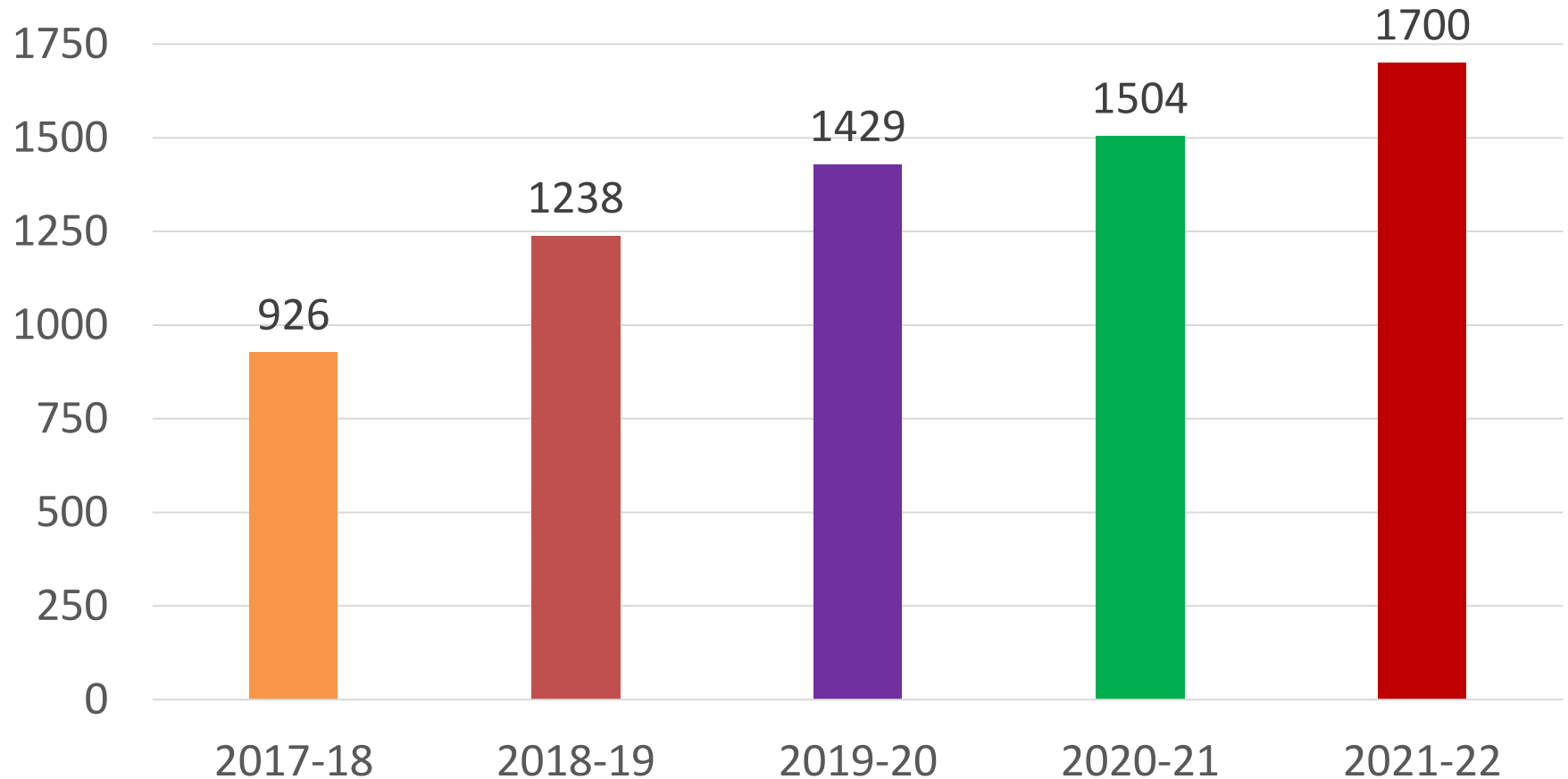
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PLACEMENT OFFERS

Year Wise Number of Offers



PLACEMENT OFFERS

Placement details of for 2022 Batch

- 1700+ offers
- Highest Package
 - 33.59 LPA by ServiceNow
 - 32 LPA by Gojek
 - 25 LPA by Fivetran
 - 20 LPA by Amazon
 - 20 LPA by Nutanix
 - 19.5 LPA by Vmware
 - 17.34 LPA by BNY Mellon Technology,
 - 15.9 by ULA

Average Package- 5.5 LPA

Average Package Circuit Branches – 5.57 LPA

Average Package Core Branches – 4.71 LPA

Average Package IT Branches – 10.01 LPA

RCOEM Technology Business Incubation Foundation (RCOEM TBI), a section 8 company, is formed by Shri Ramdeobaba College of Engineering and Management (RCOEM), Nagpur for fostering entrepreneurship and nurturing tech start-ups. It is a startup incubator that provides 'Start to scale' support for technology-based entrepreneurship and facilitates the conversion of research and innovation into entrepreneurial ventures.

Till now, **33 start-ups** are financially/technically supported and operational.



50+ lakh financial support was provided by Ramdeobaba Sarvajanik Samiti.

RESEARCH & DEVELOPMENT

Research & Development Activities

- Details of publications in journal in 2021-22
 - Publication in Journals : **187**
 - No. of Publications in Web of Science (WoS) Indexed journals: **94**
 - No. of Publications in Scopus Indexed journals: **110**
 - Publication in Conference: **35**

- Patent Filed in 2021-22: **42**
- Patent Published in 2021-22: **27**
- Patents Granted in 2021-22: **8**
- Copyright Filed in 2021-22 : **26**
- Copyright Granted in 2021-22 : **18**
- **3** PhD awarded by college in 2021-22

PHYSICAL RESOURCES

- UPGADATION OF INFRASTRUCTURE



PROPOSED DIGITAL TOWER
SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT

- Building of Civil Engineering Department is Demolished
- All laboratories of Civil Engineering are shifted
- Construction of 8 Story Digital Tower
 - Super built area of 12,100 Sq. meter
 - Approval from competent authorities is obtained
 - Excavation is going on



- Construction of another floor on MBA building
- Total area of 1,452 sq. meter



STUDENTS PERFORMANCE

- STUDENTS ACHIEVEMENTS
 - SRC ACTIVITIES
 - ACHIEVEMENTS FOR SPORTS
 - INTERNATIONAL DAY OF YOGA
 - NSS ACTIVITIES
-

STUDENTS ACHIEVEMENTS

RCOEM

Shri Ramdeobaba College of
Engineering and Management, Nagpur



Harsheet Chordiya got Runners Up position in
TATA CRUCIBLE Campus Quiz 2022



Varad Joshi from RCOEM cracked CDS
with All India Rank 16



RCOEM students won Late Shri J.M. Thakar
Memorial Inter-Collegiate award



Mr. Arjun Agrawal received recommendation
for the Indian Army through TGC-134 Entry
and secured All India Rank 8.

STUDENTS ACHIEVEMENTS



RCOEM students are the winners
of Hack The Game at IIT Goa



Akshat Chandak (1 Lakh)
HackWithInfy Achievement



Rishikesh Kale of RCOEM has won the Pool Prize at
ETH Online Hackathon organized by ETHGlobal

SRC ACTIVITIES

RCOEM

Shri Ramdeobaba College of Engineering and Management, Nagpur



Independence Day 2022



Republic Day 2022



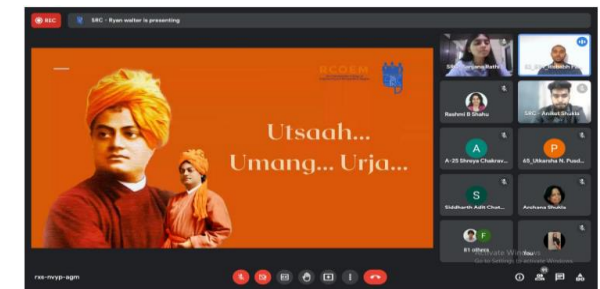
Aaruni 21



Shivswarajya Din



Gyanodaya'21



National Youth Day

ACHIEVEMENTS FOR SPORTS

Achievements of students in Sports

Our students participated and won many prizes in

- RTMNU Inter Collegiate Tournaments
- Inter-Branch Competition
- Inter-Collegiate sports meet “UDGHOSH”

DUE TO COVID 19 ONLY LIMITED ACTIVITIES WERE CONDUCTED BY R.T.M.N.U AS WELL AS BY THE PHYSICAL EDUCATION DEPARTMENT, RCOEM FOR THE SESSION 2021-22

RTM NAGPUR UNIVERSITY INTERCOLLEGIATE TOURNAMENT	WINNER	02 GAME	CHESS(M), CHESS(W)
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ACHIEVEMENTS FOR SPORTS

INTERBRANCH SPORTS CUP 2021-22			
Game	1 st place	2 nd place	3 rd place
CHESS (M)	EC	CIVIL	IT
CHESS (W)	IT	EC	EDT
TABLE TENNIS (W)	MECH	EC	EE
TABLE TENNIS (M)	IT	EN	CIVIL
VOLLEYBALL (M)	CSE	MBA	EN
VOLLEYBALL(W)	EC	MBA	MCA
CRICKET (W)	EN	EC	MBA
CRICKET (M)	CSE	MBA	IND
FOOTBALL (M)	MECH	CIVIL	IND
BASKETBALL (M)	IND	CSE	MECH
BASKETBALL(W)	CSE	IND	EN
TAG RUGBY(M)	IND	IT	MECH

ACHIEVEMENTS FOR SPORTS



INTERNATIONAL DAY OF YOGA

International Yoga Day 20-21 June 2022

- The event was organized by the Physical Education Department & NSS unit RCOEM
- Renowned Yoga Expert Mr. Amit D. Desai was invited Expert



Our students of NSS participated in various events organized by RCOEM as listed below

- Blood donation camps
- Cleanliness drive under swatch Bharat abhiyan,
- Old garment distribution
- Stationary distribution for underprivileged students
- NSS-Foundation Day
- Tree plantation drive
- Visit to Deaf and Dumb School
- Swatch Bharat Summer Internship Program

PRERNA: NSS Mega Event at RCOEM: a weeklong Socio-Cultural camp.

- JUNOON: Shows talents and wonder skills of especially able children
- JASHN: Platform for Orphanages
- HEALTH CHECK-UP CAMP for faculty and students
- PRAYAS: An Attempt for Techno-Solution on Social problems,
- REFLECTION, AAKRITI
- GRAM -SAMPARK: health check-up camp, Sanitation awareness, education awareness program, street play etc. in nearby village.



ALUMNI ASSOCIATION

- RACA
 - PROMINENT EVENTS OF RACA
 - ALUMNI ACHIEVEMENTS
-

Ramdeobaba Alumni Connect Association (RACA)

Ramdeobaba Alumni Connect Association was established in 2019. It is registered as 'not for profit' Company under Section 8 of the Companies Act, 1956, on 13th July 2019. The mission of Ramdeobaba Alumni Connect Association (RACA) is to foster strong bonds between alumni, students, and the Institute.

The Ramians Ignite - An "Entrepreneur meet" 29th May 2022

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RCOEM's alumni association launches 'The Ramians Ignite'

■ Business Bureau

OVER the past four decades, Shri Ramdeobaba College of Engineering and Management (RCOEM) has produced several entrepreneurs and self-employed professionals, located across the globe. In a novel initiative to connect all these individuals, the Ramdeobaba Alumni Connect Association (RACA) has launched 'The Ramians Ignite' on August 29, 2021 at Hotel Centre Point.

The 'Ramians Ignite' is a unique platform which would help connect, collaborate and collectively help build a cohesive ecosystem for the entrepreneurs, manufacturers, self-employed professionals, where they can come, share and prosper mutually.

The inaugural session saw an overwhelming response of more

than 100 Ramdeobaba alumni entrepreneurs who were bubbling with enthusiasm.

Executive Member Vinay Chawla welcomed all the participants and helped them recollect and cherish the fond memories of their college days.

Prof K N Agarwal, Alumni Incharge RCOEM, highlighted the need of creating a separate strong entity in the form of RACA.

Chairman of Alumni Association Nilesh Panpaliya, briefly introduced the working of the association, and the various initiatives being taken to help locate and connect all the alumni to form a strong organisation.

Executive Member Gorakh Sirsikar, introduced the idea and the concept behind 'The Ramians Ignite'. Alumni Akshay Kekre, highlighted the importance of networking and how each one of those present can help grow

organically and exponentially.

Leading textile industrialist Prashant Mohotta from Hinganghat highlighted the schemes like Production Linked Incentive scheme (PLI), creation of textile park by the Textile Ministry, locational advantages of these units in Vidarbha and the nitty-gritty of the sector.

The event was attended by RCOEM's Environmentalist Entrepreneur Alumni Mahima Suri, Health Sector Entrepreneur Alumni Kartik Vijaywargiya, Food Expert Alumni Lulua Kapadia, Tech Expert Alumni Anand Saraf, IT Expert Alumni Deepak Jha, Prof Sachin Pund, Secretary-RACA, Prof N M Deshkar, Dr P D Pachpor, Dr Mridula Korde, Prof P D Waramwar, Tushar Marghade, Aditya Saraf, Rahul Laddhad, Lalit Gandhi, Rupesh Shah, Vipul Muraka, Amit Seth and other alumni of the institute.

Mr. Vikram Labhe of Fivetran, India - The first Unicorn of RCOEM ALUMNI has raised \$565mn funding to acquire HVR. With this, the valuation of his company reached **\$6 billion**.

TheHitavada

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Fivetran, owned by Labhe from city, to acquire HVR

- Announces \$565 Million in Series D Funding
- Fivetran is owned by Vikram Labhe, the alumnus of Shri Ramdeobaba College of Engineering and Management and Saraswati Vidyalyaya

■ **Principal Correspondent**

FIVETRAN, the leading provider of automated data integration, on Monday announced it has entered into a definitive agreement to acquire HVR, a leading provider of enterprise data replication technology of United

States. Fivetran is owned by Vikram Labhe, a Nagpurian, the alumnus of Shri Ramdeobaba College of Engineering and Management and having school education from Saraswati Vidyalyaya, a State Board school.

The acquisition will allow Fivetran to provide breakthrough database replication performance along with enterprise-grade security to address the massive market for modernizing analytics for operational data associated with ERP systems, Oracle databases, and more.

Fivetran also announced it has raised a \$565 million Series D round, consisting of new and



Vikram Labhe

existing investors. Andreessen Horowitz (a16z) led the round with participation from existing investors General Catalyst, CEAS Investments, Matrix Partners, and others, along with new investors ICONIQ

Capital, D1 Capital Partners and YC Continuity. Fivetran has raised \$730 million to date. The company is now valued at \$5.6 billion.

The combination of Fivetran and HVR complementary technologies will accelerate Fivetran's mission to make access to data as simple and reliable as electricity.

(Contd on page 4)



Mr. Mahendra Agrawal - MD, Mahendra Group and Mr. Pankaj Sarma - Jt. Managing Director, Sarma Energy & Minerals Limited have been featured in "**Forbes India Marquee Leaders Pivotal to Growth**".



Mr. Sidharth Mishra Founder **Sigmatronix Innovation Pvt Ltd** (Mask Vending Machine) has received **The Progress Global Award 2021** at the hands of Shri Umesh Patel - Minister Govt. of Chhattisgarh (science and technology Minister) and Shri V Ramgopal Rao - Director, IIT Delhi.