


# RCOEM

Shri Ramdeobaba College of  
Engineering and Management, Nagpur

A photograph of the entrance gate to Shri Ramdeobaba College of Engineering and Management. The gate is a white concrete structure with a dark brown metal fence. The name of the college is inscribed on the top of the gate. A paved road leads through the gate into a green campus.

Shri Ramdeobaba College of Engineering and Management

# Annual Report

## 2020-21

## INDEX

<b>VISION AND MISSION.....</b>	<b>2</b>
<b>ABOUT US .....</b>	<b>2</b>
<b>VISSIONARIES .....</b>	<b>3</b>
<b>ORGANIZATIONAL STRUC TURE.....</b>	<b>9</b>
<b>COMMITTEE AND CELLS.....</b>	<b>10</b>
<b>ADMISSIONS 2020-21 .....</b>	<b>31</b>
<b>ACADEMICS .....</b>	<b>42</b>
<b>RESEARCH AND DEVELOPMENT .....</b>	<b>63</b>
<b>PLACEMENT STATISTICS.....</b>	<b>74</b>
<b>STUDENTS" REPRESENTATIVE COUNCIL (SRC) .....</b>	<b>83</b>
<b>SPORTS ACTIVITIES .....</b>	<b>119</b>
<b>NATIONAL SERVICE SCHEME (NSS) .....</b>	<b>138</b>
<b>RCOEM TBI FOUNDATION.....</b>	<b>152</b>
<b>CENTRAL LIBRARY FACILITIES .....</b>	<b>161</b>
<b>FACILITIES &amp; INFRASTR UCTURE.....</b>	<b>164</b>



## VISION AND MISSION

---

---

### VISION

---

Shri Ramdeobaba College of Engineering and Management envisage the institute par excellence, providing world class technical and management education.

### MISSION

---

To impart quality education in the field of Engineering and Management and to foster mutually beneficial relationship with industries to create an intellectually stimulating environment for learning, research and for promoting professional and ethical values.

## ABOUT US

---

---

**AN AUTONOMOUS INSTITUTION PERMANENTLY AFFILIATED TO RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY AN ISO 9001:2015 CERTIFIED INSTITUTION NAAC ACCREDITED WITH 'A' GRADE**

### QUALITY POLICY

---

Shri Ramdeobaba College of Engineering and Management is committed to achieve exemplary standards in Engineering and Management Education.

We aim at continuous improvement of all our processes and will strive to provide an environment conducive to the pursuit of knowledge and overall personality development.

We encourage all to adhere to the highest ethical standards and professional integrity and aim to enhance the satisfaction level of all stakeholders.

### CORE VALUES

---

**Excellence:** The Institute strives to excel in knowledge assimilation, research and innovation.

**Integrity:** The Institute upholds high values of rationalism, professional ethics, human values and practice of equality.

**Transparency:** Transparency is maintained in all the processes and decisions taken in the Institute.

**Social and Moral Responsibilities:** The Institute commits itself to issues of national importance and global concern as a part of social and moral responsibilities.

**Service to the Nation:** The Institute pledges to serve the nation by developing technically trained human resource in the field of engineering and management.

## VISSIONARIES

---



---

### **SHRI BANWARILAL PUROHIT (HON'BLE GOVERNOR OF TAMIL NADU & FOUNDER CHAIRMAN, RCOEM)**

---

More than three decades ago, we committed ourselves to develop excellent technically trained human resources that would contribute to the development of nation. Shri Ramdeobaba College of Engineering and Management (RCOEM) was the manifestation of that vision & a commitment to achieve exemplary standards in engineering and management education. RCOEM continues its relentless quest to raise the bar and set new benchmarks in the education sector. We strive to instill the same spirit in the students and provide an environment conducive to the pursuit of knowledge and over-all personality development. It has helped to mould the students into dynamic individuals who stand out among their peers. We preach value education and practice the values by following a transparent admission process which is based purely on the merit of the students.

*Shri Purohit, a social activist and educationist, is the guiding force behind RCOEM's success. Prior to his appointment as Governor of Tamil Nadu, he was also the Governor of Assam and Meghalaya. He was elected as a Member of Parliament from Nagpur, thrice, and served as a Minister in the Maharashtra government. He is the mentor of Nagpur's leading English daily, 'The Hitavada'. Shri Purohit is also the Vice President of Bharatiya Vidya Bhavan, an educational trust which has educational institutions world over. He Chairs the Nagpur unit of Bharatiya Vidya Bhavan Schools with special responsibility of Central India. (Shri Purohit, a social activist and educationist, is the guiding force behind RCOEM's success. He was elected as a Member of Parliament from Nagpur, thrice, and served as a Minister in the Maharashtra government. He is the mentor of Nagpur's leading English daily, 'The Hitavada'. Shri Purohit is also the Vice President of Bharatiya Vidya Bhavan, an educational trust which has educational institutions world over. He Chairs the Nagpur unit of Bharatiya Vidya Bhavan Schools with special responsibility of Central India.)*



---

**SHRI CHANDRAKANTBHAI THAKAR (VICE-CHAIRMAN)**

---

We all live in an era where science and technology are the corner stone on which the constructive build of the society rests. RCOEM, in its 32 years of existence has strived hard to make itself a real instrument of socio-economic change through innovation in technical education. This Pioneer Institution has grown to symbolize all that is best in our profession and is achieved excellence to meet the challenges brought on by globalization.

*Shri Thakar is a renowned lawyer practicing in Supreme Court, High Court, and Income tax tribunals. He has specialization in income tax and has represented numerous important income tax cases. He has held the prestigious position of the President of Income Tax Appellate Tribunal Bar Association, Nagpur for several years. He is also connected with various educational institutions. He is Chairman, Trust Mandal of Shri Nagpur Gujarati Mandal which is a prime educational society that is managing various primary and high schools and colleges.*



---

**SHRI SATYANARAYAN NUWAL (VICE-CHAIRMAN)**

---

The objective of education is to prepare the youth to adapt more practical approaches in life. Education is all about stimulating young minds and igniting their intellect. We at RCOEM believe that students have to be prepared to make a difference and an education institution has to provide the opportunities to enhance their skills to make the difference.

*Shri Nuwal is the Chairman of Solar Industries India Limited and is the first-generation entrepreneur who started his career by trading in industrial explosives and initiating systems. He set up the first explosive production plant in the year 1996, under the flagship company Solar Explosives Limited in Nagpur. Within a decade, his endeavor established itself as the best-known names in the explosives industry. He is also the Chairman of seven other companies and Director in two. He has been ranked among the Best 100 CEOs of India by Business Today. With his vision as a leader and commitment to excellence, he is the guiding force behind many policies and decisions taken at the College level.*



---

**SHRI GOVINDLAL AGARWAL (GENERAL SECRETARY)**

---

We at RCOEM offer multi-dimensional learning experience. It not only includes practical and academic learning but also grooming of individuals as professionals and responsible citizens. This stems from our commitment to set uncompromising academic standards that drive our philosophy to produce graduates who can make a difference in their chosen careers.

The Institute has always evolved itself by adapting to changes occurring in the society, in general, and the industry, in particular. This reflects not only in the curriculum but also in the state-of-the-art infrastructure that meets global standards. We continue with our mission to 'sculpt excellence' to create responsible global citizens.

*A well-known industrialist, Shri Agarwal is not only one of the visionaries but also the policy implementer of the College on behalf of the Management. His experience, zeal, sincerity, and unconditional support have helped the Institution achieve the stature that it has today. He is also an active member of various social and religious organizations.*





---

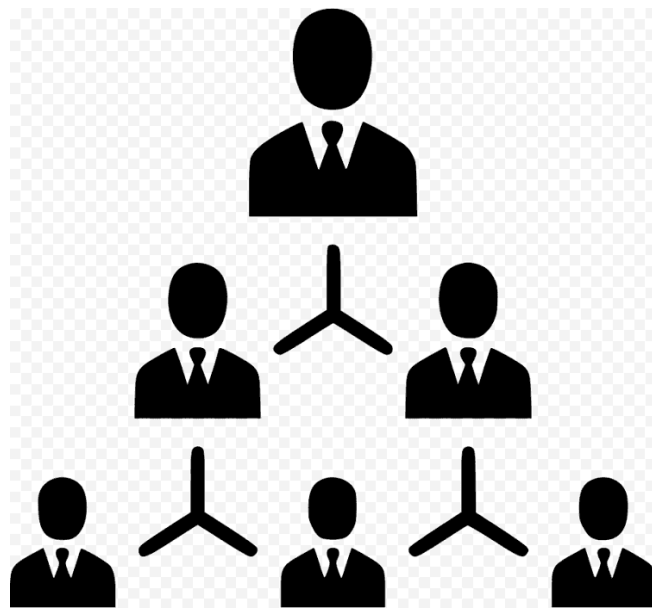
**DR. RAJESH PANDE (PRINCIPAL)**

---

Shri Ramdeobaba College of Engineering and Management, Nagpur founded in 1984 gives an idyllic setting where individuals are honed to be ethical professionals. RCOEM has been recognized for its commitment to excellence to technical education. The reputation that RCOEM has earned comes from the efforts, contributions and achievements of our thousands of stakeholders.

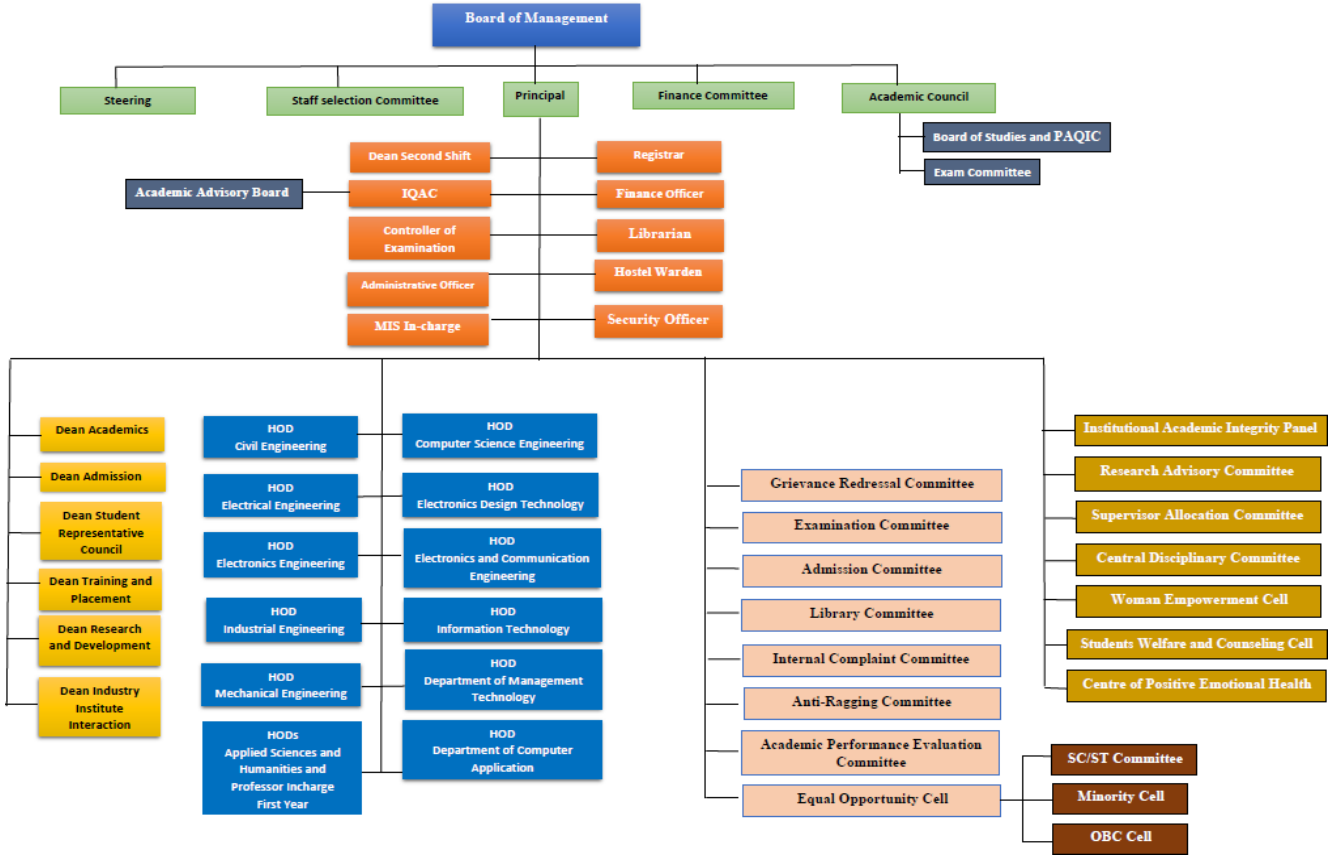
Our community of students, professors, staff and alumni shares a commitment to diligence and make sincere efforts towards the advancement of the society through creativity and innovation. RCOEM is the temple of knowledge devoted to innovative learning, creativity and effective application of knowledge and values for sustainable development.

*Dr. Rajesh S. Pande is an eminent scholar and holds enormous experience of more than 28 years as a researcher, academician and administrator. His area of research and expertise are Radio Frequency Micro-Electro-Mechanical-Systems (RF MEMS) and VLSI Design. He is the Director of Section 8 Company "RCOEM Technology Business Incubators Foundation". He has been the Principal Investigator of two projects on MEMS cantilever switch which were carried out at Indian Institute of Technology - Bombay under Indian Nano electronics Users Programme of Government of India (INUP). He won the best Project Award – 2018 for the medium-term project titled "Fabrication and Characterization of MEMS Cantilever Switch for Power Applications" at IIT, Bombay. He has published research papers, patents and heading projects supported by Ministry of MSME, AICTE, DST and Rajiv Gandhi Science and Technology Commission at RCOEM. Dr. R.S. Pande was bestowed with Best Principal Award by Rashtrasant Tukadoji Maharaj Nagpur University (RTMNU) for his able administration in 2017 and nominated as Member of Academic Council, RTMNU. He was also felicitated by Institute of Engineers as Eminent Engineer on Engineers' Day-2017.*



# Organizational Structure

# ORGANIZATIONAL STRUCTURE



## COMMITTEE AND CELLS

### EXECUTIVE COMMITTEE



Chairman

Shri Banwarilal Purohit  
Hon'ble Governor of Tamilnadu



Vice-Chairman

Shri Chandrakantbhai Thakar



Vice-Chairman

Shri Satyanarayan Nuwal



General-Secretary

Shri Govindlal Agarwal



Secretary

Shri Rajendra Purohit



Secretary

Shri Kailashchand Agrawal



Treasurer

Shri Ashokkumar Pachariwala



Member

Shri Shyamsunder Rathi



Member

Shri Padmesh Gupta



Member

Shri Ramswaroop S. Sarda



Member

Dr. Purushottam Paldiwal



Member

Shri Indrakumar Kejadiwal



Member

Shri Dinesh Agrawal



Member

Shri Bhagwandas Daga



Member

Shri Pradeep Agrawal



Member

Shri Sanjay Agrawal



Member

Shri Sureshkumar Lohiya



Member

Shri Devendra Sahu

## BOARD OF MANAGEMENT

BOARD OF MANAGEMENT (Under para 8 of the scheme of Autonomous College under XII Plan)

Sr. No.	Provision	Name	Designation
1	5 Member of Management	Shri Banwarilal Purohit	Chairman
2		Shri Chandrakantbhai Thakar	Member
3		Shri Govindlal Agarwal	Member
4		Shri Rajendra Purohit	Member
5		Shri Shyamsundar Rathi	Member
6	Two teachers of the College nominated by the principal based on seniority	Prof. J. S. Joshi	Member
7		Dr. Neeta Shah	Member
8	Educationalist or Industrialist	Shri Satyanarayan Nuwal, Industrialist, Solar Industries India Ltd. (SIIL), Plot No. 14, Kachimet, Amravati Road, Nagpur-440023	Member
9	One nominee of the University Grants Commission	Dr. Avichal Kapoor, Joint Secretary, University Grants Commission, Bahadurshah Zafar Marg, New Delhi-110002.	Member
10	One nominee of the State Govt.	Request has been made to the Principal Secretary; Higher & Technical Education Dept. Government of Maharashtra vide letter No. RCOEM/P/2019/67783 dated 22.04.2019	Member
11	One Nominee of the University (RTMNU)	Dr. M. B. Kumthekar, Principal, GCOE, Sector 27, Mihan, Rehabilitation Colony, New Khapri, Nagpur 441 108	Member
12	Nominee of All India Council I for Technical Education, Regional Officer (Ex-Officio)	Western Regional Officer, AICTE, W.R.O., Mumbai	Member
13	Principal -Member Secretary	Dr. R. S. Pande	Member Secretary

## COLLEGE DEVELOPMENT COMMITTEE

It is notified for general information that the College Development Committee u/s 97(1) of Maharashtra Public Universities Act 2016 is declared constituted w.e.f. 27.03.2018 for a period of five years. (27.03.2018 TO 26.03.2023)

Sr. No.	Provision	Name & Address	Designation
1	Chairperson of the Management or his nominee ex-officio	Shri Banwarilal Purohit	Chairperson
2	Secretary of the Management or his nominee	Shri Govindlal Agarwal	Member
3*	One Head of Department, to be nominated by the Principal or the Head of the Institution	Dr. D. S. Adane, Head, Deptt. of Information Technology	Member
4*	Three Teachers in the College or recognized institution, elected by the full-time amongst themselves out of whom at least one shall be woman	Dr. A. J. Agrawal	Member
		Prof. M. S. Tiwari	Member
		Dr. Richa Khandelwal	Member
5*	One non-teaching employee, elected by regular non-teaching staff from amongst themselves	Shri R. A. Sharma	Member
6*	Four local members, nominated by the Management in consultation with the principal from the fields of education, industry, research and social service of whom at least one shall be alumnus	Shri Rajendra Purohit	Member
		Adv. Pradip Agrawal	Member
		Ms. Sangita Prashant Rajankar, Associate Scientist, MRSA Centre, VNIT Campus, S.A. Road, Nagpur	Member
		Shri Shyamsunder Rathi	Member
7	Coordinator, Internal Quality Assurance Committee of the College	Dr. M. A. Hasamnis	Member
8	President and Secretary of the College Students' Council	Mr. Yash Vinay Khandelwal, 4 <sup>th</sup> yr. (EC)	Member
9	Principal of the College or Head of the Institution	Dr. R. S. Pande	Member Secretary

INTERNAL QUALITY ASSURANCE CELL

Sr. No.	Category	Name	Designation
1	Principal	Dr. Rajesh S. Pande	Chairman
2	One Member from Management	Shri Govindlal Agarwal General Secretary Shri Ramdeobaba College of Engineering and Management, Nagpur	Member
3	Teachers to represent all level	Dr. S. D. Mohgaonkar Dean, Second Shift	Member
4		Dr. V. S. Deshpande Professor, Industrial Engineering	Member
5		Dr. K. N. Agrawal Professor, Mechanical Engineering	Member
6		Dr. M. B. Chandak HOD Computer Science and Engineering	Member
7		Dr. Avinash J. Agrawal, Dean Academics	Member
8		Dr. Padma Adane Management Representative, ISO	Member
9		Dr. Pallavi K. Parlewar, NAAC Coordinator	Member
10		Prof. Aarti Karandikar Assistant Professor, Computer Science and Engineering	Member
11	Few Senior Administrative Officers	Dr. A. A. Agashe Controller of Examination	Member
12		Dr. Preeti S. Voditel Professor Incharge, MIS	Member
13		Dr. Y. M. Sonkhaskar, Dean SRC	Member
14		Prof. Nikhil Damle, Registrar	Member
15		Mr. B. B. Paliwal, Finance Officer	Member
16	One nominee each from Local society, Students and Alumni	Dr. Rajendra M. Patrikar Professor, VNIT, Nagpur	Member
17		Mr. Rakshit Bhagwat Kathwate VIII Sem, CSE	Member
18		Ms. Varsha Yadav, IV Sem, MBA	Member
19		Mr. Vishvesh Agrawal, Entrepreneur	Member
20	One nominee each from Employers/ Industrialists/ Stakeholders	Mr. Ajay Yawalkar Delivery Lead, TCS, Nagpur	Member
21		Mr. Nitin Sudame Executive Director, Spacewood, Nagpur	Member
22		Mr. Mukul Verma Plant Head - JSW, Nagpur	Member
23		Dr. Priya Wanjari Principal, Santaji Mahavidyalaya,	Member



		Nagpur	
24	One Senior Teacher	Dr. (Mrs.) Meghana A. Hasamnis Professor, Electronics Engineering	Coordinator

#### FINANCE COMMITTEE (AUTONOMY)

Sr.No.	Name	Designation
1	Dr. R. S. Pande	Chairman
2	Shri Ashokkumar Pachariwala	Member
3	Dr. S.D. Mohgaonkar	Member
4	Finance & Accounts Officer, RTMNU, Nagpur	Member
5	Shri B. B. Paliwal	Finance Officer

#### STAFF SELECTION COMMITTEE

Sr.No.	Name	Designation
1	Shri Banwarilalji Purohit	Chairman
2	Shri Chandrakantbhai Thakar	Member
3	Shri Satyanaraya Nuwal	Member
4	Shri Govindlal Agarwal	Member
5	Dr. Rajesh Pande, Principal	Member Secretary
6	Shri Rajendra Purohit	Member

#### STEERING COMMITTEE

Sr.No.	Name	Designation
1	Shri Shyamsunder Rathi	Chairman
2	Shri Satyanarayan Nuwal	Member
3	Shri Govindlal Agarwal	Member
4	Shri Ashokkumar Pachariwala	Member
5	Shri Rajendra Purohit	Member
6	Adv Pradeep Agrawal	Member

#### ACADEMIC COUNCIL

Sr. No.	Category	Name	Designation
1	Principal	Dr. R. S. Pande	Chairman
2	Heads of Department	Dr. Dr. P. D. Pachpor, H.O.D., Civil Engineering	Member
3		Dr. V. S. Deshpande, H.O.D., Industrial Engineering	Member
4		Prof. V. T. Barhate, H.O.D., Electrical Engineering	Member
5		Dr. (Mrs.) A. A. Khurshid, H.O.D., Electronics Engineering & EDT	Member
6		Dr. R. B. Raut, H.O.D., Electronics & Communication Engineering	Member

7		Dr. M. B. Chandak, H.O.D., Computer Science & Engineering	Member
8		Dr. D. S. Adane, H.O.D., Information Technology	Member
9		Dr. M. M. Gupta, H.O.D., Mechanical Engineering	Member
10		Dr. (Mrs.) P. S. Voditel, H.O.D., Computer Applications (MCA)	Member
11		Dr. C. R. Vichoray, H.O.D., Management Technology (MBA)	Member
12		Dr. S. M. Pande, H.O.D., Physics	Member
13		Dr. A. V. Bharti, H.O.D., Chemistry	Member
14		Dr. S. D. Mohgaonkar, H.O.D., Mathematics	Member
15		Dr. (Mrs) D. R. Mehra, H.O.D., Humanities	Member
16		Dr. Amit Anurag, H.O.D., Physical Education	Member
17	Four senior teachers by rotation	Dr. M. S. Kadu, Professor in Civil Engineering	Member
18		Dr. K. N. Agrawal, Professor in Mechanical Engineering	Member
19		Dr. M. A. Hasamnis, Professor in Electronics Engineering	Member
20		Dr. A. A. Agashe, Associate Professor, MBA and C.O.E.	Member
21	Four experts nominated by Board of Management from outside college	Dr. P. M. Khodke, Central Project Advisor, National Project Implementation Unit, Noida UP.	Member
22		Dr. B. N. Chaudhari, Dy. Director & Professor of Electrical Engineering, College of Engineering Pune	Member
23		Dr. Dilip R. Peshwe, Professor, Dept. of Metallurgical & Materials Engineering, V.N.I.T., Nagpur	Member
24		Mr. Shekhar Patankar Delivery Head, Persistent Systems Ltd. Nagpur	Member
25	Three nominees of the R. T. M. Nagpur University	Dr. M. D. Choudhary, Professor, Bapurao Deshmukh College of Engineering, Sewagram, Wardha	Member
26		Dr. C. C. Handa, Professor, K.D.K. College of Engineering, Nagpur	Member
27		Dr. Shekhar Bhole, CEO, Meghe Group of Institutions (Y.C.C.E.), Nagpur	Member
28	Faculty member nominated by Principal	Dr. A. J. Agrawal, Dean Academics	Member Secretary

#### EXAMINATION COMMITTEE

Sr. No.	Provision	Name	Designation
1.	The Principal	Dr. R. S. Pande	Chairman
2.	Three Regular Senior Faculty Members of the institute possessing teaching/research experience of more than Ten years	Dr. S. D. Mohagaokar	Member
		Dr. T. G. Arora	Member
		Prof. (Mrs.) Poorvi Joshi	Member
3.	One Evaluation Expert nominated by the principal	Dr. S. S. Dambhare	Member

4.	Controller of Examination, Sr. faculty member of Shri Ramdeobaba College of Engineering and Management	Dr. Abhijeet Agashe	Member Secretary
----	--	---------------------	---------------------

#### COLLEGE GRIEVANCE REDRESSAL CELL (CGRC)

(As per Para 5(3) of Uniform Statute 5 of 2019 of university)

Sr.No.	Name	Designation	Address
01	Dr. R. S. Pande, Principal	Chairperson	Shri Ramdeobaba College of Engineering and Management, Gittikhadan, Katol Road, Nagpur - 4400 013
02	Prof. (Mrs.) Poorvi K. Joshi, Deptt. of Electronics Engg.	Member	Shri Ramdeobaba College of Engineering and Management, Gittikhadan, Katol Road, Nagpur - 4400 013
03	Dr. Y. M. Sonkhaskar, Deptt. of Mechanical Engg., Dean SRC	Member	Shri Ramdeobaba College of Engineering and Management, Gittikhadan, Katol Road, Nagpur - 4400 013

#### COMMITTEE FOR SC AND ST (PREVENTION OF ATROCITIES) ACT 1989

1	Dr. Rajesh Pande	Principal-Chairman
2	Dr. S.B. Bodkhe	Member
3	Dr. (Mrs) Pallavi Parlewar	Member
4	Prof. Rajesh Khobragade	Member
5	Prof. E. M. Gonnade	Member Secretary

#### DISCIPLINARY COMMITTEE

1	Dr. T. G. Arora	Electrical Engineering	Chairperson	9403208803
2	Dr. K. N. Agrawal	Mechanical Engineering	Advisor	9373103536
3	Dr. C. P. Pandhurnekar	Applied Chemistry	Member	9420254823
4	Dr. Y. M. Sonkhaskar	Dean SRC	Member	9423429641
5	Prof. S. R. Kulkarni	Warden, Boys' Hostel	Member	9049300099
6	Prof. (Mrs.) G. Morankar	Warden, Girls' Hostel	Member	8888135834

#### ANTI RAGGING COMMITTEE - (2020-23)

Sr. No.	Category	Name
1	Head of the Institution	Dr. R. S. Pande
2	Civil	Adv. Pradeep Agrawal
3	Police Administration	The Police Inspector, Gittikhadan Police Station, Nagpur
4	Local Media	Shri Vikas Vaidya, The Hitavada, Nagpur
5	NGO	Mrs. Deepali Kale, Chairperson, Scrutiny Committee of Child Adoption
6	Faculty Members	Prof. N. M. Deshkar, Student Counselor
		Dr. Y. M. Sonkhaskar, Dean SRC
		Dr. (Mrs.) Jayu Kalambe, Chairperson, Internal Complaint Committee
		Dr. C. P. Pandhurnekar, In-charge Campus Discipline
7	Parents	Shri Chandrashekhar Hardas, Father of Mr. Akhilesh Hardas, BE 2nd Year Civil
		Shri. Hariom Agrawal, Father of Ms. Vidhi Agrawal, BE 3rd Year Civil
8	Students	Mr. Shantanu Awachat, BE 2nd Year Industrial
		Ms. Mrudani Deosthali, BE 2nd Year Civil

### Contact Details

Name of Committee Member	Mobile Number	e-mail id
<b>Prof. N. M. Deshkar</b>	9850395303	deshkarnm@rk nec.edu
<b>Dr. Y. M. Sonkhaskar</b>	9423429641	sonkhaskarym@rk nec.edu
<b>Dr. (Mrs.) Jayu Kalambe</b>	9822360944	kalambej@rk nec.edu
<b>Dr. C. P. Pandhurnekar</b>	9420254823	pandhurnekarcp@rk nec.edu

### INTERNAL COMPLAINT COMMITTEE FOR GENDER SENSITIZATION

#### Prevention, Prohibition and Redressal of sexual harassment of women employees and students in higher educational institutions

(As per provisions of para-4 of UGC Regulation. 2015)

RCOEM has zero tolerance policy against sexual harassment and is committed to uphold the Constitutional mandate to combat sexual harassment. It strongly supports gender equality and opposes any form of gender discrimination, sexual harassment and gender violence. As per the provisions of the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013, an Internal Complaints Committee (ICC) has been constituted to act as Inquiry Authority on a complaint of sexual harassment and to take proactive measures towards

sensitization of the students, staff and faculty members on gender issues.

1	Presiding Officer	Dr. Jayu Kalambe, Associate Professor, Electronics Engineering Department.
2	Faculty Members	1. Prof. N. M. Deshkar, Associate Professor, Electrical Engineering Department. 2. Prof. Mrs. Prachi Saoji, Asst. Professor, Dept. of Mathematics
3	Non-Teaching Employees	1. Smt. Pramila Bhangе, Laboratory Attendant, Electrical Engineering 2. Shri Rajendra Takit, Laboratory Attendant, Electronics Engineering
4	Students	<b>Undergraduate</b> Ms. Mahima Rana, VII Sem, Electronics Engineering. <b>Post Graduate</b> Ms. Priyanka Pande, III Sem M.Tech. (VLSI Design) <b>Research Scholar</b> Ms. Arti Buche, Computer Science & Engineering.
5	External Member	Ms. Dipali Kale, Managing Director Jaika Insurance Brokerage Pvt Ltd, Nagpur

#### WOMEN EMPOWERMENT CELL

A Women Empowerment Cell is constituted to empower the women at all levels in the institute. Following members are nominated for the cell:

Sr.No.	Name	Designation
1	Dr. Sunita N. Dhote	Chairperson- Women Empowerment Cell (Faculty-DMT)
2	Dr. Deepshikha Mehra	Member(Humanities)
3	Prof. Gauri Morankar	Member(EN)
4	Prof. Aparna Gurjar	Member(MCA)
5	Mrs. Ujjawala Janephalkar	Non-Teaching Member Representative(Administration)
6	Ms. Linki Parasnani	Students Incharge(MBA Final year)

#### MEDIA EXPRESSION COMMITTEE

Sr.No.	Name	Department
1	Dr. Vandana Gandhi, DMT	Incharge
2	Dr. Cynita Christy, Librarian	Member
3	Prof. Vikas Gupta, EN	Member
4	Dr. Prachi Salodkar	Member
6	Prof. Vishnu Vardhan, MCA	Website Cell Incharge
7	Prof. Puja Agrawal, EC	Digital Marketing & Website Data Management

### STUDENTS' WELFARE AND COUNSELING CELL

---

Sr.No	Name	Department
1	Prof. N.M.Deshkar <b>(Coordinator)</b>	Electrical Engineering
2	Dr.(Mrs.) Rashmi Shahu	Industrial Engineering
3	Dr.(Mrs.) Ruchi Sao	Management Technology
4	Dr. (Mrs.) Monika Seth	Humanities
5	Akanksha Deshpande	Humanities

### HOSTEL ADVISORY COMMITTEE

---

Sr.No.	Name	Department	
1	Dr. K.N. Agrawal	Mechanical Engg.	Chairman
2	Dr. Amit Anurag	Physical Education	Member
3	Dr. Mrs. Jayu Kalambe	Electronics Engg.	Member

### STUDENTS GRIEVANCE REDRESSAL COMMITTEE (SGRC)

---

Sr. No.	Name	Designation
1	Dr. R. S. Pande, Principal	Chairperson
2	Dr. Sanjay B. Bodkhe	Member
3	Dr. Sanjay B. Pokle	Member
4	Dr. Mrs. Neeta Shah	Member
5	Mr. Ankush Agrawal, BE -III Industrial	Member (Student)

# Looking Back on



NEW



NORMAL

**SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT, NAGPUR**

**An Autonomous Institute Affiliated to Rashtrasant Tukadoji Maharaj Nagpur  
University, Nagpur**

**NAAC Accredited with „A“ Grade**

**[www.rknec.edu](http://www.rknec.edu)**

**New Normal @RCOEM**

**In Response to**

**COVID 19 Disruption**

The report is a detailed account of all the activities undertaken by the College along with the faculty members, staff and students during the lockdown. The report covers a variety of initiatives encompassing various aspects. The report aims to highlight the efforts put in by the college for overcoming the challenges put forth by COVID-19 pandemic.



Academics has changed dramatically in this era of Covid 19 pandemic. This is an unprecedented scenario and it certainly calls for some extraordinary thinking and effort on the part of all stakeholders. Educational Institutions across the globe, based on their ability and resources at hand, have adopted various ways and means to cope with the scenario. Some have gone out of their way to help ease the learning process for the students while some have just managed to stay afloat. RCOEM belongs to the former category.

When the entire country was busy with the financial year ending process in March 2020, the corona virus came, it saw and then disrupted everything. The situation called for a matured, calm and visionary approach. The management and the senior members of RCOEM family did just that. The staff members were appraised of the situation, sensitized about the importance of their role in facing the pandemic and ensuring that the students remained positive, calm and motivated.

The institution immediately adapted to the situation and shifted to online mode from offline mode. The transition was almost seamless for both the staff members and the students. Anxious moments, if any, were successfully addressed through counseling. The infrastructural issues were addressed immediately to ensure continuity of the teaching learning process. Wherever required, additional infrastructure was created to suit the requirements of the changing scenario. The institute, through its continuous interaction with the stakeholders, assured them all support as and when required. The students were not only taught, they were provided all facilities online. Access to basic reading material apart from the remote access to library facilities and tie ups with global education providers to ensure unhindered learning beyond the curriculum. The guardians were kept informed about the developments and the plans of the Institute. Specific sessions were arranged to answer their doubts and some cases their anxieties also. They were assured that the future of their wards was in safe hands.

RCOEM, as part of its institutional social responsibility, ventured beyond the boundaries of its campus and reached out to the society at large. It was not oblivious to the sufferings of the common people. The senior members were in constant touch with the local authorities to understand the challenges faced by the authorities in handling the pandemic. Apart from providing intellectual inputs, the institute was forthcoming in reaching out to the needy with necessary relief material. The staff members were actively involved in the battle with the virus.

In some ways the pandemic was a blessing in disguise. The institute was successful in reaching out to its alumni in different parts of the globe. The students were able to interact with the highly positioned alumni. Students got an opportunity to interact with these people and get a share of their experience which will be helpful in future. The quality of the product depends upon the stringent processes through which it has to go through. RCOEM has been successfully producing industry ready personnel year after year due to the stringent evaluation process. Maintaining quality which comes naturally to RCOEM was an unprecedented challenge this year. It is said „when the going gets tough, the tough get going,“ here also the team put its experience to good use. The entire evaluation system was modified to suit the requirements. Entirely new system of examination was created and to ensure smooth conduct of the process the concept of mentors was introduced. The mentors kept the students motivated and were available round the clock to help them in facing the procedural and in some cases personal challenges.

The outcome of the efforts was reflected in the approach of the corporate. The training and placement team of the institute capitalized on the efforts and ensured proper training for all eligible students to ensure that the corporates get personnel of their choice. The skill development process was intensified to cover up for shortfall, if any. The training and placement team despite suffering some setbacks has successfully delivered this year also.

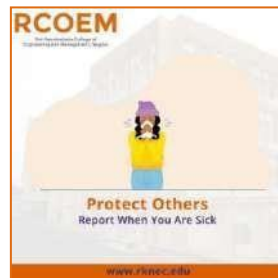
The pandemic brought out the best of innovative capabilities. The students along with the faculty members were able to combine their creativity and technology to come up with some innovative products which were aimed at easing the challenges. The institute with its strong team delivered on all fronts and won awards and accolades alike.

RCOEM, with its closely knit and coordinated team has adapted to the „New Normal“ as if it is the normal. The institute was able to bring in its fold a host of industry personnel for the benefit of students and faculty members both. In the „New Normal“ RCOEM has been successful in getting placements, internships and corporate exposure for students. The institute has grown in its understanding of the human behavior and has performed extremely well in the scenario despite the challenges faced by the team members at various levels.

With the blessings of Lord Ramdeo Baba, the vision of the Management and the dedicated efforts of the team members, the Institute is confident of reaching greater echelons in the future.

## SAFETY AWARENESS

Social media campaign on how the public can keep themselves safe during these trying times



## AWARENESS CAMPAIGNS

### Junta Curfew Awareness



### 9 minutes of Darkness to Light



## MENTAL HEALTH COUNSELLING

### Coping up with anxiety during lockdown

- Spreading awareness about how people could cope with their anxiety

### Covid and 'YOU'th

- Understanding the impact of Covid-19 on the youth
- Impact of 'Work-from-home'
- Corona & Youth Hangouts



## TIPS TO STAY PRODUCTIVE CAMPAIGN

Aimed at creating awareness about ways and means to keep oneself

productive during the lockdown



## COUNSELLING AND SUPPORT

---

The current scenario poses a lot of uncertainty. This uncertainty leads to a lot of anxiety in the minds of our various stakeholders. The college has taken efforts to provide some of its stakeholders telephonic support as well as conducted various virtual interactions with parents, students etc regarding some important aspects that were affected due to the lockdown and the pandemic.

## ACADEMIC COUNSELING

---

- As the lockdown started during the teaching period the students were anxious with regard to how the academics will be covered, how the exams will be undertaken. During this time the college provided support to the students by conducting online seminars etc. to discuss the way forward.

## PARENTS COUNSELING

---

- Along with students their parents are also an important stakeholder for any college. The parents had many concerns regarding the future of their child's education. They had questions related to examinations, placements etc.
- Interactions were organised with the parents through online Parent-Teach Meetings to answer any questions, queries or doubts that parents may have on various issues related to the college. This helped the parents understand the various measures the college had taken and was planning to take in the future to assist the continued education of their child during the pandemic.

## CAREER COUNSELING

---

- Career guidance is another area that was addressed during this time.
- Summer is a crucial time for students in classes 10th and 12th as it is then that they take decisions that affect them throughout their lives. They would usually visit colleges in get information or take assistance of career counsellors. However, during this pandemic this was not possible.

## WORK-RELATED SUPPORT

---

- The some of the faculty members of the college also needed support on how they can conduct their online classes and assignments. For this Online and Telephonic support was provided.

## MENTAL HEALTH COUNSELLING

---

Another effort taken by the college was in the area of mental health where two programmes were organised by the college. The first programme was “A Virtual Evening of Music” and the second was a webinar titled “Coping up with anxiety during lockdown” that addresses how to deal with the anxiety caused by the pandemic.

## STANDARD OPERATING PROCEDURES (SOP) @RCOEM IN RESPONSE TO COVID-19 DISRUPTION

---

The purpose of this Standard Operating Procedure (SOP) is to elaborate the procedure to be followed in order to resume the academic session after lockdown due to COVID-19 outbreak. This SOP is prepared in order to detail some minimum guidelines which would enable the resumption of the academic session after the lockdown period. All precautionary measures are to be ensured at the institute so that faculty, staff and students feel safe and secure at the institute.

As per the UGC guidelines for re-opening of the universities, a COVID-19 cell is established to reassure the students' community to avoid any kind of stress or panic in the prevailing situation vis-à-vis their studies, health and related issues. The cell takes care of anxiety, mental health and psychological issues of students developed during the lockdown period and fear of infection after the opening of campus.

General guidelines for faculties, staff and students were the part of SOP.

### 2020 Ranking



#### NIRF 2020

RCOEM has got INDIA RANKING of '113' by National Institutional Ranking Framework, Ministry of Human Resource Development, Government of India in Engineering Category in 2020.



#### INDIA TODAY RANKINGS - 2020

RCOEM has got INDIA TODAY RANKING of '50th' in All India Private Engineering Colleges Category.



#### Competition Success Review - 2020

RCOEM has got CSR Magazine survey 2020 of '26' in all Engineering Colleges of India.



#### Outlook Survey Results 2020

RCOEM ranked 28<sup>th</sup> in Outlook's India's Best Professional Colleges 2020 Survey.

## NEW PROGRAMMES STARTED IN 2020-21

---

- ☒ B.E. in Computer Science and Engineering (Data Science) (Intake: 60)
- ☒ B.E. in Computer Science and Engineering (AI and Machine Learning) (Intake: 60)
- ☒ B.E. in Computer Science and Engineering (Cyber Security) (Intake: 60)
- ☒ B.E. in Biomedical Engineering (Intake: 30)
- ☒ M. Tech. Robotics and Automation (Intake: 12)





## **ADMISSIONS 2020-21**

---

In view of the Covid-19 pandemic, and the subsequent lockdown imposed by competent authority it was proposed to conduct Institute level admission process in ONLINE mode. The online admission process was based on the Eligibility criteria as prescribed by the State CET Cell for academic year 2020-21.

The institute has Juno ERP for the academic administration. The EPR was configured to undertake the online admission process for various Undergraduate and Post Graduate courses. As per the notification and guidelines from various regulating agencies, the admission schedule was published on the college website and national news paper.

The admission schedule for admission to First year MBA integrated Programme was declared on 5<sup>th</sup> August 2020. MBA-Integrated is a 5year PG programme after HSSC. The admission in this program is based on the aggregate marks obtained in HSSC in the stream of ARTS/Science/Commerce. The Admission Request Form (ARF) was invited from the aspirants and based on the HSSC marks the inter-se merit list was prepared. The merit list was displayed on the college website for information to all.

The seat allotment and confirmation of seat was done through the Juno ERP. The payment of fees was also facilitated through online payment gateway.

After declaration of results of common entrance test conducted by State CET Cell for admission to First Year B.E/MBA/MCA/M. Tech. and JEE/GATE etc. the schedule of online admission process for Institutional seats was declared on the college website and in national daily in the month of December 2020 and January 2021.

Admission in these programs are based on the eligibility as prescribed by State CET Cell. The Admission Request Form (ARF) was invited from the aspirants. Based on the eligibility the inter-se merit list was prepared. The merit list was displayed on the college website for information to all.

The seat allotment and confirmation of seat was done through the Juno ERP. The payment of fees was also facilitated through online payment gateways.

For First Year B.E the aspirants were also given the option of choosing the branch of their choice online through the online admission application system. The inter-se merit list was considered for the allotment of choice.

After the revised guidelines of Unlock was released by the competent authority in the month of Dec 2020-Jan2021, the admission confirmation, document submission and reporting was conducted offline following all the covid-19 advisory of the competent authority.

The vacancy rounds were declared by competent authority from time to time and conducted online via State CET Cell for centralize allotment and similar procedure was adopted by the institute to carry out the vacancy rounds for vacancy against CAP at the institute level.

During the vacancy rounds For First Year B.E the aspirants were also given the option to reshuffle allotted seat against the available vacancy as per the inter-se merit list and choose the branch of their choice.

The admission rounds for academic session 2020-21 were concluded on 8<sup>th</sup> Feb 2021 as per the cut-off date declared by the State CET Cell.

The entire admission process was conducted online and whenever required the activities like document submission and reporting were conducted offline strictly adhering to covid-19 advisory of the competent authority.



# RCOEM Shri Ramdeobaba College of Engineering and Management, Nagpur

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Ramdeo Tekdi, Katol Road, Nagpur - 440013 Telephone : +91-712-2580011,

Website : www.rknc.edu, Email : deanadmissions@rknc.edu

DTE CODE : 4115

NIRF Ranking 113<sup>th</sup> in 2020

Applications are invited from eligible candidates, in prescribed Admission Request Form (ARF) available on the college website, for the academic session 2020-21.

## INSTITUTE LEVEL ADMISSION NOTIFICATION 2020-21 (All India Seats)

For First Year BE, MBA, MCA and M. Tech.  
Candidates with MHT-CET/JEE Mains 2020 can apply.

Sr.No.	Event	First Year B.E.	MBA	MCA	M. Tech.
1	Activation of ONLINE Admission Request Form (ARF) on college website: www.rknc.edu	10 <sup>th</sup> December 2020	10 <sup>th</sup> December 2020	10 <sup>th</sup> December 2020	10 <sup>th</sup> December 2020
2	Last date for Submission of duly filled ARF in online mode. The candidates have to upload original copies of all required documents.	20 <sup>th</sup> December 2020	20 <sup>th</sup> December 2020	20 <sup>th</sup> December 2020	22 <sup>nd</sup> December 2020
3	Display of Provisional College Merit List (PCML)	22 <sup>nd</sup> December 2020	21 <sup>st</sup> December 2020	21 <sup>st</sup> December 2020	24 <sup>th</sup> December 2020
4	Objection/Grievances if any, pertaining to PCML	23 <sup>rd</sup> December 2020	22 <sup>nd</sup> December 2020	22 <sup>nd</sup> December 2020	25 <sup>th</sup> December 2020
5	Choice code /Option form filling	23 <sup>rd</sup> to 24 <sup>th</sup> December 2020	----	----	----
6	Display of Final College Merit List (FCML)	24 <sup>th</sup> December 2020	25 <sup>th</sup> December 2020	23 <sup>rd</sup> December 2020	29 <sup>th</sup> December 2020
7	Online Provisional Admission allotment as per FCML	28 <sup>th</sup> December 2020	26 <sup>th</sup> December 2020	25 <sup>th</sup> December 2020	1 <sup>st</sup> January 2021

### Proposed Intake for Under Graduate courses for academic session 2020-2021

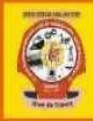
Under Graduate Programs	Intake
BIOMEDICAL ENGINEERING	30
COMPUTER SCIENCE AND ENGINEERING (CYBERSECURITY)	60
COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)	60
COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)	60
CIVIL ENGINEERING	60
COMPUTER SCIENCE AND ENGINEERING	120
ELECTRICAL ENGINEERING	60
ELECTRONICS AND COMMUNICATION ENGINEERING	120
ELECTRONICS ENGINEERING	120
INDUSTRIAL ENGINEERING	60
INFORMATION TECHNOLOGY	60
MECHANICAL ENGINEERING	60

### Proposed Intake for Post Graduate courses for academic session 2020-2021

Post Graduate Programs	Intake
M.TECH (INDUSTRIAL ENGINEERING)	12
M.TECH (GEO. TECHNICAL ENGINEERING)	12
M.TECH (COMPUTER SCIENCE ENGINEERING)	18
M.TECH POWER ELECTRONICS AND POWER SYSTEMS (PEPS) (ELECTRICAL DEPARTMENT)	12
M.TECH STRUCTURAL ENGINEERING (CIVIL DEPARTMENT)	18
M.TECH. ROBOTICS & AUTOMATION	12
M.TECH VLSI (ELECTRONICS DEPARTMENT)	12
MASTER OF COMPUTER APPLICATIONS (MCA)	120
MASTER OF BUSINESS ADMINISTRATION (MBA)	120

- All Admissions will be carried out as per guidelines of Competent Authority, for the session 2020-21.
- Final College Merit List (FCML) will be displayed on the College Website as per schedule.
- The online Provisional admission will be carried out as per FCML. The status of provisional admission will be communicated to respective students and the provisional admission will be confirmed after receipt of all required Original documents along with fees by online payment/ Demand Draft/Pay Order of prescribed fees drawn in favor of "Shri Ramdeobaba College of Engineering and Management, payable at Nagpur, from any Scheduled Bank.
- While filling the form, the candidates should be very careful. Mistakes, if any, will be the responsibility of the candidates.
- Details of fee structure are available on the college website www.rknc.edu
- The eligibility is as per State CET Cell.

PRINCIPAL



Shri Ramdeobaba Sarvajanik Samiti's

## SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT, NAGPUR

(An Autonomous Institution Affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)

Ramdeo Tekdi, Katol Road, Nagpur - 440013 Telephone : +91-712-2580011,

Website : [www.rknec.edu](http://www.rknec.edu), Email : [deanadmissions@rknec.edu](mailto:deanadmissions@rknec.edu)

# RCOEM

**DTE CODE : 4115**

**NIRF Ranking 113<sup>th</sup> in 2020**

### Introducing New Courses from 2020-2021



**M. TECH. in  
ROBOTICS and  
AUTOMATION**



**B.E. in  
BIOMEDICAL  
ENGINEERING**



**B.E. in COMPUTER SCIENCE  
and ENGINEERING  
(DATA SCIENCE)**



**B.E. in COMPUTER SCIENCE  
and ENGINEERING  
(CYBER SECURITY)**



**B.E. in COMPUTER SCIENCE  
and ENGINEERING  
(AI & ML)**

Applications are invited from eligible candidates, in prescribed Admission Request Form (ARF) available on the college website, for the academic session 2020-21.

### INSTITUTE LEVEL ADMISSION NOTIFICATION 2020-21 (All India Seats)

#### For First Year BE, MBA, MCA and M. Tech.

Sr.No.	Event	First Year B.E.	MBA	MCA	M. Tech.
1	Activation of ONLINE Admission Request Form (ARF) on college website: <a href="http://www.rknec.edu">www.rknec.edu</a>	10 <sup>th</sup> December 2020	10 <sup>th</sup> December 2020	10 <sup>th</sup> December 2020	10 <sup>th</sup> December 2020
2	<b>Last date</b> for Submission of duly filled ARF in online mode. <b>The candidates have to upload original copies of all required documents.</b>	20 <sup>th</sup> December 2020	20 <sup>th</sup> December 2020	20 <sup>th</sup> December 2020	22 <sup>nd</sup> December 2020
3	Display of Provisional College Merit List (PCML)	22 <sup>nd</sup> December 2020	21 <sup>st</sup> December 2020	21 <sup>st</sup> December 2020	24 <sup>th</sup> December 2020
4	Objection/Grievances if any, pertaining to PCML	23 <sup>rd</sup> December 2020	22 <sup>nd</sup> December 2020	22 <sup>nd</sup> December 2020	25 <sup>th</sup> December 2020
5	Choice code /Option form filling	23 <sup>rd</sup> to 24 <sup>th</sup> December 2020	----	----	----
6	Display of Final College Merit List (FCML)	24 <sup>th</sup> December 2020	25 <sup>th</sup> December 2020	23 <sup>rd</sup> December 2020	29 <sup>th</sup> December 2020
7	Online Provisional Admission allotment as per FCML	28 <sup>th</sup> December 2020	26 <sup>th</sup> December 2020	25 <sup>th</sup> December 2020	1 <sup>st</sup> January 2021

- All Admissions will be carried out as per guidelines of Competent Authority, for the session 2020-21.
- Final College Merit List (FCML) will be displayed on the College Website as per schedule.
- The online Provisional admission will be carried out as per FCML. The status of provisional admission will be communicated to respective students and the provisional admission will be confirmed after receipt of all required Original documents along with fees by online payment/ Demand Draft/Pay Order of prescribed fees drawn in favor of "Shri Ramdeobaba College of Engineering and Management, payable at Nagpur, from any Scheduled Bank.
- While filling the form, the candidates should be very careful. Mistakes, if any, will be the responsibility of the candidates.
- Details of fee structure are available on the college website [www.rknec.edu](http://www.rknec.edu)
- The eligibility is as per State CET Cell.
- For First Year B.E. Candidates with MHT-CET and JEE Main 2020 can apply.

PRINCIPAL

Size 16x18 cms

## PROCESS

---

Shri Ramdeobaba College of Engineering and Management, Nagpur has a well-defined admission process which is governed by the Directorate of Technical Education, Government of Maharashtra. Out of the total sanctioned intake, 51% seats are reserved for students belonging to Hindi Minority having domicile of Maharashtra, 20% seats are Institute level seats while the remaining 29% seats are under the Centralized Admission Process. The DTE conducts the admission rounds for both the CAP seats and Minority seats while a separate round, on the lines of the DTE, is followed for filling the Institute level seats. All admissions at Shri Ramdeobaba College of Engineering and Management, Nagpur are done strictly on the basis of merit and in a transparent manner.

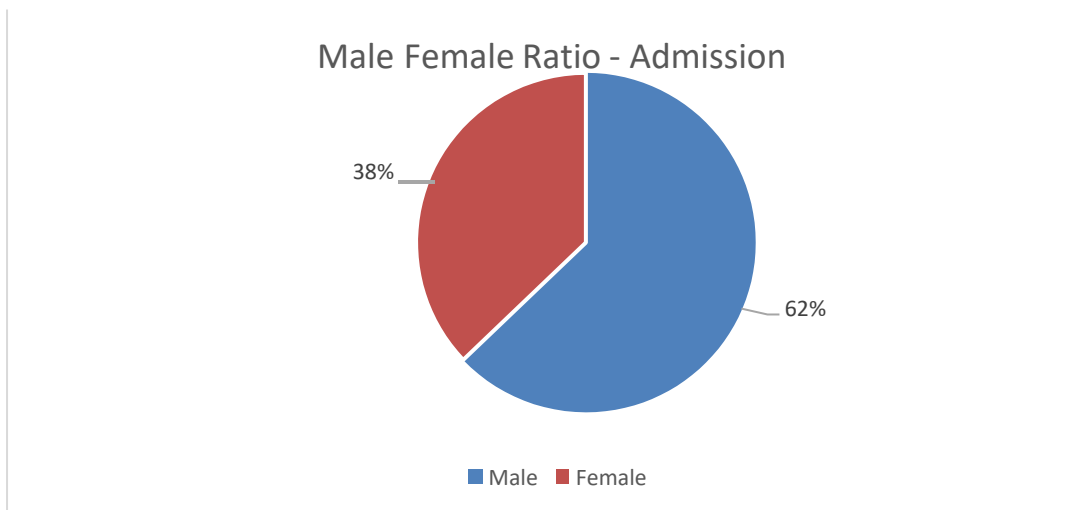
## ELIGIBILITY

---

The eligibility conditions are clearly defined for different programs. The Institute follows the eligibility criteria prescribed by the DTE. Further details are available on the website [www.rknec.edu](http://www.rknec.edu)

## MALE FEMALE RATIO

---





BIO MED.	R-1	96.39	95.08	91.65	91.65	83.72	0.64	91.24	85.81	94.57	92.44	93.17	89.12
	STAGE-2	90.25	85.25	86.09	86.09	0	0	0	0	0	0	0	0
	STAGE-3	78.44	78.44	80	80	0	0	0	0	0	0	0	0
	VR-2	89.97	29.48	79.58	79.58	83.72	0.64	91.24	83.98	86.09	84.57	93.17	86.49

**SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT, NAGPUR  
B.E. SECOND YEAR (AFTER DIPLOMA)/MBA/MCA/MBA(INTEGRATED)/M.TEH  
CUT-OFF FOR MANGEMENT QUOTA AND CAP SESSION 2020-21**

BRANCH	IL/MQ/CAP ROUNDS	CAP-CET		CAP LM-CET		INSTITUTE LEVEL		ALL INDIA	
		OPEN	CLOSE	OPEN	CLOSE	OPEN	CLOSE	OPEN	CLOSE
EC	R-1	94.95	89	87.5	82.81				
	VR-2	94.95	89	87.5	82.81				
	VR-3								
EN	R-1	87.25	83.41	76.9	62.25				
	VR-2	87.25	83.41	70	62.25				
	VR-3								
CS	R-1	95.65	95.15	95.6	93.8				
	VR-2	95.65	95.15	95.6	93.8				
	VR-								
IND	R-1	90.95	85.79	86.87	81.58	78.97	78.97		
	VR-2	90.95	85.79	86.87	81.58				
	VR-3								
IT	R-1	93.5	93.25	89.85	87.77				
	VR-2	93.5	93.25	89.85	87.77				
	VR-3								
ELE	R-1	92.69	92	92.67	88.95	75.5	75.5		
	VR-2	92.69	91.28	92.67	85.8				
	VR-3								
EDT	R-1	81.71	81.71						
	VR-2	81.71	81.71	76	71.95				
	VR-3								
CIV	R-1	94.53	92.84	93.63	86.74				
	VR-2	94.53	93.37	93.47	86.74				
	VR-3								
MECH	R-1	94.55	94.4	96.31	92.51				
	VR-2	94.55	94.4	96.31	92.51				
	VR-3								
EC (SS)	R-1	93.65	87.65	81.8	79.3				
	VR-2	93.65	87.65	86.2	80.3				
	VR-3								
EN (SS)	R-1	87.71	81.05			87.2	87.2		
	VR-2	81.25	77	79.3	72.6				
	VR-3								
CS (SS)	R-1	94.9	94.51	93.03	90.06				
	VR-2	94.9	94.51	93.03	90.06				
	VR-3								
CIV (SS)	R-1	92.63	92.21	87.68	79.84				
	VR-2	92.63	92.21	87.68	78.05				
	VR-3								



FIRST YEAR M.B.A.											
BRANCH	IL/MQ/CAP ROUNDS	CAP-CET		CAP LM-CET		INSTITUTE LEVEL		ALL INDIA		TFWS	
		OPEN	CLOSE	OPEN	CLOSE	OPEN	CLOSE	OPEN	CLOSE	OPEN	CLOSE
M.B.A. FS	R-1	111	93	109	66	92.03	83.57	97.45	94.78	94	93
	VR-2	111	90	96	66	98.38	78.42	97.45	92.51	102	93
	VR-3										
M.B.A. SS	R-1	93	89	112	57	82.34	78.42	96.1	92.03	92	90
	VR-2	92	86	66	56	87.1	71.78	94.78	87	92	89
	VR-3										
FIRST YEAR M.C.A.											
BRANCH	IL/MQ/CAP ROUNDS	CAP-CET		CAP LM-CET		INSTITUTE LEVEL		ALL INDIA		TFWS	
		OPEN	CLOSE	OPEN	CLOSE	OPEN	CLOSE	OPEN	CLOSE	OPEN	CLOSE
I YR. M.C.A. FS	R-1	86.5	52.5	64.25	5	98.68	88.38	69.75	61	80.5	66.25
	VR-2	86.5	52.5	64.25	5	45	31.25	59.75	50	80.5	66.25
	VR-3										
I YR M.C.A. SS	R-1	52	47.25	45	17.5	87.28	78.94	58.5	48.5	65.5	61.5
	VR-2	52	45	45	22	37.5	27.5	58.5	48.25	65.5	58
	VR-3										

FIRST YEAR M.B.A.										
BRANCH	IL/MQ/CAP ROUNDS	CAP-CET		CAP LM-CET		INSTITUTE LEVEL		ALL INDIA		
		OPEN	CLOSE	OPEN	CLOSE	OPEN	CLOSE	OPEN	CLOSE	
M.B.A. FS	R-1	116	93	92	61	91.54	82.74	94.49	91.54	
	VR-2	116	90	120	58	98.61	82.33	94.49	92.84	
	VR-3	120	89	91	58			94.49	91.54	
M.B.A. SS	R-1	116	88	88	54	89.64	75.66	92.84	92	
	VR-2	100	85	88	54	85.76	81.6	96.88	91.24	
	VR-3	100	85	88	54			96.88	91.24	
FIRST YEAR M.C.A. & DIRECT SECOND YEAR M.C.A. (LATERAL ENTRY)										
BRANCH	IL/MQ/CAP ROUNDS	CAP-CET		CAP LM-CET		INSTITUTE LEVEL		ALL INDIA		
		OPEN	CLOSE	OPEN	CLOSE	OPEN	CLOSE	OPEN	CLOSE	
I YR. M.C.A. FS	R-1	88	38	74	55	57	5	86	47	
	VR-2	88	35	74	55			48	13	
	VR-3	88	26	74	55			86	48	
I YR M.C.A. SS	R-1	80	30	0	0	75	5	47	38	
	VR-2	80	34	0	0			47	47	
	VR-3	80						79	47	

DSE M.C.A. FS	R-1	129	60	104	23	0	0	0	0
	VR-2	129	59	64	23	0	0	0	0
	VR-3	129				0	0	0	0
DSE M.C.A. SS	R-1	94	47	29	29	0	0	0	0
	VR-2	94	42	29	29	0	0	0	0
	VR-3	94	42	29	29	0	0	0	0
<b>FIRST YEAR M.B.A.(INTERATED)</b>									
BRANCH	IL/MQ/CAP P ROUNDS	SCIENCE		COMMERCE		ARTS		GENERAL	
		OPE N	CLOS E	OPE N	CLOS E	OPEN	CLOSE	OPE N	CLOS E
MBA (INTEGRATED)	R-1	G- 88.6 LM-87.8	G- 61.69 LM- 60.8	G- 92.77 LM- 89.3	G-71.6 LM- 65.6	60.46	60.46	0	0
<b>FIRST YEAR M.TECH (ALL)</b>									
BRANCH	IL/MQ/CAP P ROUNDS	CAP-CET		CAP LM-CET		INSTITUTE LEVEL		ALL INDIA	
		OPE N	CLOS E	OPE N	CLOS E	OPEN	CLOSE	OPE N	CLOS E
VLSI	R-1	373	16.33	18.33	18.33	15.67	3.33	0	0
	VR-2	373	7.67	18.33	18.33			0	0
	VR-3	18.67	7.67	18.33	18.33			0	0
CSE	R-1	467	15.67	17.33	1.33	15.67	4.67	0	0



- **UNDER GRADUATE PROGRAMMES**
- **POST GRADUATE PROGRAMMES**
- **DOCTORAL PROGRAMMES**
- **SCHOLARSHIPS AND INCENTIVES**
- **HONORS AND MINORS SCHEME**
- **MOOC'S COURSES**

## ACADEMICS

### UNDER GRADUATE PROGRAMMES

RCOEM has taken several initiatives in restructuring and strengthening its academic programmes at undergraduate (UG) and postgraduate (PG) levels over the past year. Following table depicts information regarding various undergraduate programmes successfully offered in the institute in the academic year 2020-21.

Programme code as per DTE	Programme Name	Sanctioned Intake
411519110	Civil Engineering	60
411558910	Industrial Engineering	60
411529310	Electrical Engineering	60
411537610	Electronics Engineering	120
411537010	Electronics and Communication	120
411524610	Information Technology	60
411524210	Computer Science and Engineering	120
411561210	Mechanical Engineering	60
411591210	Computer Science and Engineering (Data Science)	60
411591110	Computer Science and Engineering (Artificial Intelligence and Machine Learning)	60
411591010	Computer Science and Engineering (Cyber Security)	60
411546110	Biomedical Engineering	30

\*\* Apart from the sanctioned intake, provision for extra seats is there for NRI / Foreign nationals, people of Indian origin and Jammu & Kashmir residents. All the above Streams are of four years duration.

### POST GRADUATE PROGRAMMES

Various Post graduate programmes are offered at RCOEM. M. Tech (Geotechnical Engineering, Structural Engineering, Industrial Engineering, VLSI Design, Computer Science and Engineering, Power Electronics and Power Systems, Heat Power Engineering), MBA, MCA and MBA Integrated programmes were successfully offered in the institute in the academic year 2020-21

Programme code as per DTE	Programme Name	Department	Sanctioned Intake
----	M.Tech. Geotech Engineering	Civil Engineering	12
<b>411558910</b>	M.Tech. Industrial Engineering	Industrial Engineering	12

<b>411535910</b>	M.Tech. VLSI Design	Electronics Engineering	12
<b>411521210</b>	M.Tech. Structural Engineering	Civil Engineering	18
<b>411524210</b>	M.Tech. Computer Science and Engineering	Computer Science and Engineering	18
<b>411539410</b>	M.Tech. Power Electronics and Power System	Electrical Engineering	12
<b>411594210</b>	M.Tech. Robotics and Automation	Mechanical Engineering	12
<b>411524110</b>	MCA	Computer Application	120
<b>411510110</b>	MBA	Management Technology	120
----	MBA (Integrated 5 years after 12th)	Management Technology	60

### DOCTORAL PROGRAMMES

---

RCOEM is known for Doctoral Programmes and following table depicts information regarding various Doctoral Programmes offered in the institute in the academic year 2019-20:

SN	Subject	Department	Sanctioned Intake
1	Civil Engineering	Department of Civil Engineering	10
2	Computer Science & Engineering	Department of Computer Science & Engineering	10
3	Electronics Engineering	Department of Electronics Engineering	10
4	Electrical Engineering	Department of Electrical Engineering	10
5	Mechanical Engineering	Department of Mechanical Engineering	10

### ONLINE TEACHING LEARNING

---

Teaching learning during the pandemic year 2020-21 was conducted through online mode. Guidelines regarding conduction of online teaching learning at institute level were given to all departments. In addition to this departments were directed to deliberate on conduction of lab courses, projects etc effectively as per the nature of the courses. All courses were configured in the Juno campus software along with details of students and faculty. Time table were entered in the Juno. Openelectives, Honors/Minor courses were allotted through Juno campus based on preferences submitted by the students. Before starting the courses, faculty informed the students regarding course outcome and Teacher"s Assessment mode, weightage and schedule. All faculties are asked to create google classroom of each course for continuous communication with students regarding lecture notes, PPT, doubts,

assignments and continuous evaluation.

## SCHOLARSHIPS AND INCENTIVES

---

To inculcate competitiveness among students, it is decided to provide merit-based scholarships to all excellent performing students of RCOEM. These scholarships would motivate the students to put their best efforts in academics.

### 1. Merit based Scholarships:

- **Undergraduate Program:** Top 5% of Intake capacity of the branch/shift. For First year student's scholarship would be given based on their performance in entrance test i.e., based on JEE score, 1 scholarship and on MHT-CET score there will be 2 scholarships in each program excluding EDT. For EDT the scholarship distribution will be 1 for JEE and 1 for MHT-CET.
- **M. Tech Program:** One student for each program.
- **Master of Business Administration and Master of Computer Application:** Top 5% of Intake capacity shift wise.
- **Master of Business Administration (Integrated):** Top 5% of Intake capacity of program. 2
- **Residents of Hostels (Boys/Girls) admitted in UG Program:** Amongst the students residing in the Hostel, the overall topper in First year, second year, Third Year respectively all UG programs put together.

### 2. Quantum of merit-based scholarships:

Sr.	Activities	Performance	Amount
01	Academic Performance of students	Top 5% student in a class i.e. Branch wise/Shift wise	Rs. 10,000/-
		Hostel Toppers (Boys/Girls)	Rs. 10,000/-

### 3. Research Scholarship for Students:

A regular student of RCOEM who is involved in research & innovation by his/her own or working under research internship under the guidance of a faculty member at college is eligible for this scholarship. Scholarship amount: Rs. 5000/- (Rupees five thousand only) per month with a maximum limit of Rs. 20,000/- (Rupees twenty thousand only) in an academic year. Ten such scholarships are instituted.

### 4. Scholarships/Incentives based on performance in activities other than Academics:

Criteria:

- a) Achievers in sports
  - b) Achievers in cultural/ social activities.
  - c) Student of the year.
  - d) Top rankers in Competitive exams including GATE, GRE, CAT, NET, GMAT, TOEFL, IELTS. 3 4.1)
- a) **Incentives for achievers in sports**

Eligibility:-

- Inter Collegiate: Team Event and Individual Event
- Inter-University: All India University team/ individual events
- International: Rs 25,000/- award for both individual and team event for participating at any international event by recognized federation/ sports body/ association.
- SPORTS PERSON OF THE YEAR/BEST NSS VOLUNTEER

**b) Incentives for Cultural/ Social Activities**

c) **Student of the year Incentive Amount:** Cash Prize of Rs 21000 and a citation

d) **Incentives of Competitive Examinations:** Only one Incentive will be given to one student in one academic year. Incentive Amount: Half the amount of the fees OR Rs. 1000/- whichever is less will be reimbursed to all successful students on submitting the score card of respective examination. These incentives will be provided for all the examinations like GATE/ GRE/ CAT/ GMAT/ NET.

**OPEN ELECTIVES, HONORS/MINOR, MOOCS AND CREDIT TRANSFER OVERALL CHALLENGES DURING THE PANDEMIC YEAR 2020-21:**

---

Due to the pandemic declared in the month of April and May 2020, Institute has taken special subscriptions provided by Online Learning Platform COURSERA and edX, under which certification courses are made available free for students. This initiative was widely accepted by students which kept them engaged during unprecedented time of Covid-19. For further benefit of students, it was recommended that students can opt for Credit Transfer of MOOCs against Open Elective of V semester during session 2020-21. Overwhelming response of 623 students received for this initiative. As per the guidelines of credit transfer of MOOCs, assessment of the students who have obtained certificates on Coursera and edX platform required to be conducted. Conducting assessment for 462 students opted MOOCs of different domains was a challenging task.

**EFFORTS TAKEN TO RESOLVE CHALLENGES:**

---

1. Detailed list containing name of the students, MOOCs they have opted, duration of the MOOCs and which department will conduct assessment of it was prepared and shared with the Interdisciplinary In charges of the Departments. Interdisciplinary In charges under the guidance of their respective HoD"s have conducted assessment of the students. For the courses which do not fall under any of the departments in the colleges, IDBoS, RCOEM has conducted assessment. As the students have taken the courses of their own choice, it was challenging to conduct assessment of the variety of MOOCs.
2. To make the process of assessment smooth for IVth the VIth Sem 2020 - 21, list of the Courses / Domains was asked from all the departments for

which they can conduct assessment and students are permitted to opt only those MOOCs which are under the list provided by the departments. The list of Courses and Domains are also displayed on the college website.

3. Due to pandemic situation during 2020-21, list of students opting credit transfer of MOOCs against Open Electives of ongoing semester was also permitted. Students who submitted courses completion certificates on SWAYAM/NPTEL were awarded grades as per their performance in NPTEL EXAM run Jun-Dec 2020 by IDBoS. For MOOCs on NPTEL, students will get another chance of certification exam only after at least 6 months or may be 1 year for some of the courses. There were around 14 students who could not get certificates during Jun-Dec 2020 NPTEL exam run and opted courses for credit transfer against Open Elective.
  
4. After detailed discussion on various aspects of the issue and the options available, recommendations were given by APEC regarding the credit transfer of MOOCs for SWAYAM / NPTEL platform which are applicable during session 2020-21 only ( As per the recommendations by APEC, dated 2-2-2021) ESE of all SWAYAM courses for which students have applied for credit transfer and were not provided with certificate was conducted at department level and „BC“ grade (1 grade less than lowest grade for credit transfer of MOOCs) was awarded to students who have successfully completed it.

**OUTCOME STATISTICS/DESCRIPTION) STATISTICS FOR OPEN ELECTIVE:**

---

**Number of students opted credit transfer of MOOCs against Open Elective**

Department	Odd Sem 2020-21			Even Sem 2020-21 (IVth Sem)			Even Sem 2020-21 (VIth Sem)		
	SWAYAM	COURSEREA	edX	SWAYAM	COURSEREA	edX	SWAYAM	COURSEREA	edX
Civil Engineering	-	-	-	14	18	0	2	1	0
Electrical Engineering	60	6	4	10	7	0	37	0	2
Computer Science & Engineering	20	125	2	5	71	2	2	42	3
Information Technology	3	68	0	3	10	1	0	43	3



Electronics and Communication	23	122	1	3	16	0	9	14	0
Industrial Engineering	22	47	0						
Mechanical Engineering	8	70	0	5	13	0	9	10	4
Electronics Engineering	17	12	0	6	27	11	6	6	1
Electronics and Design Technology	8	5	0	6	3	0	8	3	0
	<b>161</b>	<b>455</b>	<b>7</b>	<b>52</b>	<b>165</b>	<b>14</b>	<b>73</b>	<b>119</b>	<b>13</b>

**STATISTICS FOR HONORS/MINOR COURSES:**

Department	Odd Sem 2020-21 (Vth Sem)		Even Sem 2020-21 (VIth Sem)	
Computer Science & Engineering	CSTH52 (61)	MOOCs on COURSERA	-	-
	CSTH53 (6)	MOOCs on COURSERA	-	-
Information Technology	ITTH51-1 (11)	MOOCs on SWAYAM / NPTEL	ITTH61(6)	MOOCs on SWAYAM NPTEL
	ITTM52 (4)	MOOCs on SWAYAM / IGNOU	-	-

**ANY OTHER SIGNIFICANT INFORMATION STATISTICS OF MOOCS COMPLETED**

Name of the MOOCs Platform	No. Candidates	No. of persons completed the	No. of certifications	No. of different courses
----------------------------	----------------	------------------------------	-----------------------	--------------------------

	<b>Enrolled</b>	<b>course</b>		<b>completed</b>
<b>SWAYAM- NPTEL*</b> <b>(Since 2018)</b>	1,108	985	985	328
<b>Coursera*</b> <b>(Since April2020)</b>	4,679	2,336	9,792	500
<b>edX</b> (SinceMay <b>2020)</b>	1,173	210	335	284
<b>IIRS</b> <b>(Since July2020)</b>	227	51	51	11
<b>Solar Swaraj* (Since 2020)</b>	489	454	454	01

\* PLATFORMS / COURSES RECOMMENDED BY AICTE

---

<b>Activity</b>	<b>Year</b>	<b>Total Usage of VLabs</b>
<b>Virtual Lab Nodal Centre NCID 27</b>	2020	12,521
	2018-19	4,322
	2017-18	7,494
	2016-17	10,521
	2015-16	11,466

<b>Activity</b>	<b>Year</b>	<b>No. of Courses Enrolled</b>	<b>No. of certification</b>	<b>No. of Courses Completed</b>
<b>Spoken Tutorial</b>	2020	8,311	Exam not conducted till date	

<b>FOSS</b>	2018-19	3,282	787	35
-------------	---------	-------	-----	----

### HONORS/MINOR COURSES DURING EVEN SEMESTER 2020-21

---

List of HONORS / MINOR courses, V semester 2020-21

<b>Department</b>	<b>Name of the Course</b>	<b>Course Code</b>	<b>No. of Students</b>
Computer Science	AWS Fundamentals	CSTH52	61
	Block Chain	CSTH53	06
Computer Science	Software Engineering	CSTM51	106
Information Technology	Introduction to Industry 4.0 and Industrial Internet of Things	ITTH51-1	11
Information Technology	Object Oriented Programming inJava	ITTM51	87
	Fundamentals of Computer Systems	ITTM52	04
Civil Engineering	Fire Fighting System	CETH51	05
Mechanical Engineering	Tool Design	METH51	19
Industrial Engineering	Soft Computing Methods	INTH51	10

VI SEMESTER 2020-21 HONORS/MINOR DETAILS

<b>Name of the Department</b>	<b>Course Title</b>	<b>Course Code</b>	<b>No. of Students</b>
Civil Engineering	Geotechnical Design	CETH61	5
Computer Science and Engineering	MERN Stack	CSTH61	49
Information Technology	Business Analytics and data mining modelling using R	ITTH61	6
Industrial Engineering	Taguchi Methods for Experimentation	INTH61	9
Mechanical Engineering	Turbo Machinery	METH61	18
Computer Science and Engineering	AI and Machine Learning	CSTM61	101
Information Technology	Web Design for Everybody	ITTM61	81
	<b>Total</b>		<b>269</b>

NO. OF STUDENTS OPTED OPEN ELECTIVE COURSES AT RCOEM DURING ODD SEMESTER  
2020-21

		V Semester
Sr. No.	Name of the Department	No. of Students
1	Civil Engineering	143
2	Electrical Engineering	Credit Transfer through MOOCs
3	Computer Science & Engineering	Credit Transfer through MOOCs
4	Information Technology	Credit Transfer through MOOCs
5	Electronics and Communication	Credit Transfer through MOOCs
6	Industrial Engineering	Credit Transfer through MOOCs
7	Mechanical Engineering	Credit Transfer through MOOCs
8	Electronics Engineering	191
9	Electronics and Design Technology	25
<b>Total</b>		<b>359</b>

NO. OF STUDENTS OPTED OPEN ELECTIVE COURSES AT RCOEM DURING EVEN  
SEMESTER 2020-21

Sr. No.	Name of the Department	IV Semester	VI Semester
		No. of Students	No. of Students
1	Civil Engineering	113	135
2	Electrical Engineering	55	31
3	Computer Science & Engineering	90	69
4	Information Technology	58	25
5	Electronics and Communication	115	122
6	Industrial Engineering	55	62
7	Mechanical Engineering	52	54
8	Electronics Engineering	169	208
9	Electronics and Design Technology	29	26
<b>Total</b>		<b>736</b>	<b>732</b>

LIST OF OPEN ELECTIVE COURSES OFFERED FOR STUDENTS OF B.E. SEM-V, SESSION : 2020-2021

Sr. No	Name of Department offering the course	Open Elective				Which students course
		Course Name	Course Code	Pre-requisite	Max. No. of Students for a Course	
1.	Mechanical Engineering	Project Management	MET356-1	NIL	60	All Braches other than Mech. Engg
		Automobile Engineering	MET356-2	NIL	60	All Braches other than Mech. Engg
2.	Information Technology	Python Programming	ITT355-1	NIL	60	Any Branch
		Client Server Computing & Application	ITT355-2	NIL	60	Any Branch
3.	Electrical Engineering	Energy Management & Audit	EET398-1	Basic Electrical Engineerin g	60	All Branches
		Microcontroller Applications	EET398-2	Basic Electrical Engineerin g	60	All Branches (Except Civil)
		Industrial Instrumentation	EET398-3	Basic Electrical Engineerin g	60	All Branches (Except Civil)
4.	Electronics Engineering	Smart Agriculture	ENT 298-1	NIL	30	All UG programmes except EN
		Arduino Playground	ENT 298-2	NIL	30	All UG programmes except EN

		Consumer Electronics	ENT 298-3	NIL	30	All UG programmes except EN
5.	Computer Science & Engineering	Python and Data Analysis	CST398-1	CST151 or any programming Language	60	Students of all UG Branches
6.	Electronics & Communication	Electronics in Agriculture	ECT398-1	Nil	60	All except students from EN, EC, EDT
		Sensors and Transducers	ECT398-2	Nil	60	All except students from EN, EC, EDT
7.	Electronics and Design Technology	PCB Design	EDT356		60	EE,EC,EN,CS,I T, ME
8.	Industrial Engineering	Data Science with Python	INT398-1	Nil	60	All branches except CS & IT
		Asset Management	INT398-2	Nil	60	All branches
		Safety Engineering	INT398-3	Nil	60	All branches
		Industrial Psychology	INT398-4	Nil	60	All branches
		Theories of Engineering Experimentation	INT398-5	Nil	60	All branches
		Organizational Productivity Improvement	INT398-6	Nil	120	All branches except Mech Engg
9.	Humanities	Education, Technology, and Society	HUT398-1	Nil	60	Civil Engineering only
10.	Physics	Introduction to Quantum Mechanics		None	30	All Branches



		Computational Electromagnetics with Matlab		Electromagnetics	30	Electrical, Electronics, Electronics and Communication Engineering, Electronics Design Technology
--	--	--	--	------------------	----	---

LIST OF OPEN ELECTIVE COURSES OFFERED FOR STUDENTS OF B.E. SEM-IV, SESSION : 2020-2021

Sr. No	Name of Department offering the course	Open Elective				Which students can opt this course
		Course Name	Course Code	Pre-requisite	Max. No. of Students for Course	
1	MOOC Course	MOOCs on SWAYAM Platform	IDT299-1	Nil	No limit	Students of all Branches
2	MOOC Course	MOOCs on COURSERA Platform	IDT299-2	Nil	No limit	
3	MOOC Course	MOOCs on edX Platform	IDT299-3	Nil	No limit	
4	Civil Engineering	Basic Building Components	CET299-1	Nil	40	All students except CE
5	Computer Science and Engineering	Java Programming and UI design	CST299-1	Programming for Problem Solving	60	All students except CSE , IT

6	Electrical Engineering	Renewable Energy Systems	EET299-2	Basics of Electrical Engg., Knowledge of conventional energy sources	60	All students except EE, EC
7	Electronics and Communication Engineering	Evolution in Communication Technologies	ECT299 - 2	Nil	60	All students except EN, EC and EDT
8	Electronics Engineering	Industrial automation	ENT299-1 *	NO	60	All students except EN, ME
9	Electronics Engineering	Micro Nano system	ENT 299-2 *	Nil	60	All students except EN
10	Electronics Engineering	Designing with Raspberry pi	ENT299-3 *	Nil	30	All students except EN, EC
11	Industrial Engineering	Organizational Behavior Development	INT299-1	Nil	140	All students except IN
12	Industrial Engineering	Decision Modelling	INT299-2	Nil	60	All students except IN , ME
13	Industrial Engineering	Six Sigma	INT299-3	Nil	60	All students except IN

14	Information Technology	Linux Fundamentals	ITT299	Nil	60	All students except IT, CSE
15	Mechanical Engineering	Basic Mechanical Engineering	MET299-1	Nil	60	All students except ME, IN
16	Mechanical Engineering	Non Conventional Energy Sources	MET299-2	Nil	60	All except ME
17	Department of Management Technology	Innovations and Entrepreneurship	MBT299-1	Nil	60	All branches
18	Chemistry	Introduction to Nano material Science and its applications	CHT299-1	Knowledge of basic sciences	40	Students of all branches
19	Humanities	Basic Ornithology for Engineers	HUT299-3	Nil	40	All branches
20	Humanities	Human Relationship Dynamics	HUT299-1	Nil	60	All branches
21	Physics	Introduction to Quantum Computing	PHT299-1	Nil	20	All Branches
22	Physics	Essentials of Classical Mechanics	PHT299-2	Nil	20	All except CE, IN

LIST OF OPEN ELECTIVE COURSES OFFERED FOR STUDENTS OF B.E. SEM-VI, SESSION: 2020- 2021

Sr. No	Name of Department offering the course	Open Elective				Which students can opt this course
		Course Name	Course Code	Pre-requisite	Max No.	
1	MOOC Course	MOOCs on SWAYAM Platform	IDT399-1	Nil	No limit	Students of all Branches
2	MOOC Course	MOOCs on COURSERA Platform	IDT399-2	Nil	No limit	
3	MOOC Course	MOOCs on edX Platform	IDT399-3	Nil	No limit	
4	Computer Science and Engineering	Recent Trends in Computing	<b>CST399-1</b>	CST299-1: Java Programming and UI Design / Object Oriented Programming	60	Students of all Branches
5	Electrical Engineering	Solar photovoltaic Systems	<b>EET399-1</b>	Basics of Electrical Engineering	60	All students except <b>EE, ME and who opt for MINOR in Mechanical</b>
6	Electronics and Communication	Information and Communication Technologies in Rural Sector	<b>ECT399-2</b>	Nil	60	All except <b>EN, EC and EDT</b>

7	Electronics Engineering	Industrial automation	<b>ENT399-1</b>	Nil	60	All students except <b>EN,ME</b>
8	Electronics Engineering	Micro system Nano	<b>ENT399-2</b>	Nil	60	All students except <b>EN</b>
9	Electronics Engineering	Designing with Raspberry pi	<b>ENT399-3</b>	Nil	30	All students except <b>EN, EC</b>
10	Electronics Design Technology	MICROCONTR OLLER BASED DESIGN	<b>EDT399-1</b>	DIGITA L CIRCUI T	60	All students except <b>IN, ME,CE, EDT</b>
11	Industrial Engineering	Supply Chain Analytics	<b>INT399-1</b>	Nil	30	All students except <b>IN, ME</b>
12	Information Technology	Cyber Security and Laws	<b>ITT399</b>	Nil	60	All Students except <b>IT, CSE</b>
13	Mechanical Engineering	World Class Manufacturing	<b>MET399-1</b>	Nil	60	All students except <b>ME</b>
14	Mechanical Engineering	Safety and Hazard Analysis	<b>MET399-2</b>	Nil	60	All students except <b>ME</b>
15	Mechanical Engineering	Energy Auditing	<b>MET399-3</b>	Nil	60	All students except <b>ME, EE</b>

16	Computer Application	Introduction to Object Oriented Programming	<b>MCT399-1</b>	Nil	60	All students except <b>CSE , IT, EE, EC, IN</b>
17	Department of Management Technology	Financial management	<b>MBT399-1</b>	Nil	120	All students except <b>CE</b>
18	Department of Management Technology	Entrepreneurship Development	<b>MBT399-2</b>	Nil	60	All students except <b>ME</b>
19	Chemistry	Pollution and Control Techniques	<b>CHT399-1</b>	Knowledge of Basic science	40	All students except <b>CE</b>
20	Chemistry	Renewable Energy resources Technology	<b>CHT399-2</b>	Knowledge of basic sciences	40	Students of all Branches
21	Mathematics	Combinatorial Theories	<b>MAT399-1</b>	Nil	60	Students of all Branches
22	Mathematics	Numerical Techniques	<b>MAT399-2</b>	Nil	60	All students except <b>ME</b>
23	Mathematics	Statistical Methods for Business and Management	<b>MAT399-3</b>	Nil	60	All students except <b>IN</b>
24	Physics	Computational Physics	<b>PHT399-2</b>	Nil	20	Students of all Branches

<b>25</b>	Physics	Computational Electromagnetics	<b>PHT399-3</b>	Electro magneti cs	20	All students except <b>CSE, IT, CE, ME, IN</b>
<b>26</b>	Humanities	Orientation in German Language	<b>HUT399-3</b>	Nil	60	Students of all Branches



- **PHD PROGRAM**
- **R&D POLICY**
- **PUBLICATION DETAILS**
- **PATENTS COPYRIGHTS**
- **GRANTS**



---

---

**RESEARCH AND DEVELOPMENT**

---

---

**FACULTY DEVELOPMENT**

---

---

**A. International Conferences Organized in 2020-21**

<b>SN</b>	<b>Title</b>	<b>Department</b>	<b>Dates</b>
1	3rd International Conference on Electronic Systems, Signal Processing and Computing Technologies (ICESC-2020)	Department of Electronics & Communication Engineering	04-05 Dec 2020
2	International Conference on Information Systems, Data Science and Computing (ICIDC-2020)	Department of Computer Science Engineering	27-28 Nov 2020

---

**INTERNATIONAL CONFERENCES PLANNED IN 2021-22**

---

<b>SN</b>	<b>Title</b>	<b>Department</b>	<b>Tentative Dates</b>
1	Agresar – Conference on Rural Development	Department of Management Technology	22-23 Oct 2021
2	An International Conference on Smart Strategies for Self Reliant Economy - An Industrial Engineering Perspective	Department of Information Technology	08-09 Oct 2021
3	An International Conference on Innovative computing and Applications	Department of Industrial Engineering	15-16 Oct 2021

**B. TOTAL STTP/FDP ATTENDED BY FACULTY IN 2020-21: 390**

**C. TOTAL STTP/FDP ORGANIZED BY FACULTY IN 2020-21: 34**

## 1. IPR Details

### Patents Details

- Total Patents Filed in 2020-21: **35**
- Total Patents Filed till date: **113**

### COPYRIGHTS FILED

- No. of copyrights received in 2021-21: **43**
- Total No. of copyrights received till date: **182**

### RESEARCH PUBLICATIONS

#### Publications in Journals 2020-21:

Scopus	WoS	Others	Total
39	122	28	189

#### A. Publications in Conferences in 2020-21: 53

## 2. Ph.D. Program details:

- No. of Ph.D. Awarded in 2020-21: **10**
- Total number of scholars pursuing their Ph.D. as on session 2020 -21: **39**

### Ongoing Schemes for PhD

- National Doctoral Fellowship (NDF) scheme of AICTE: 4 Full-Time PhD Scholars
- Visvesvaraya PhD Scheme of Ministry of Electronics and Information Technology, Govt. of India: 1 Full-Time PhD Scholar and 7 Part-Time PhD Scholars.

PROJECT/GRANTS RECEIVED DURING 2020-21: 7

<b>Agency</b>	<b>Type of the Project / Schemes</b>	<b>Name of the Project</b>	<b>Department</b>	<b>Funding Amount Sanctioned</b>
Ministry of Coal, GoI	Research Project	Development of Coal Quality Exploration Technique based on Convolutional Neural Network and Hyperspectral Images	CSE & CIMFR Nagpur	80,29,000
AICTE	Research Project	Experimental investigation of anchorage zone stresses and development of equation to calculate bursting tensile force in post-tension concrete member.	Civil Engineering	19,08,078
AICTE	FDP	AICTE Training and Learning (ATAL) Academy programme - Internet of Things (IoT)	Electrical Engineering	93,000
AICTE	STTP	Rural Development: Opportunities, Challenges and Role of HEIs	Management Technology	2,86,667

AICTE	STTP	Internet of Things	Electronics Engineering	2,63,567
AICTE	Conference Grant	AGRESAR 2021, Conference	Management Technology	1,97,300

### 3. Project/Grants Ongoing:

Agency	Type of the Project / Schemes	Name of the Project	Department	Funding Amount Sanctioned
DST	Research Grant	FIST Level-0	RCOEM	22.5 Lakhs
(RGSTC), (TIFAC)	Research Project	RGSTC-TIFAC-MSME Internship Program	RCOEM	50 Lakhs
ICSSR	Research Project	Performance Evaluation of Pradhan Mantri MUDRA Yojana (PMMY)- An Empirical Study of Beneficiaries of Nagpur District	Management Technology	5.25 Lakhs
RSkS	Research Project	Technology Adaptation Project - Creation of Apps and Virtual class room for Non Formal Sanskrit Education	Electronics Engineering	2 Lakhs
MSME, GoI	Infrastructure Development	ASPIRE: "A scheme for promotion of innovation, rural industrialization and entrepreneurship"	RCOEM	39.25 Lakhs

AICTE	Infrastructure Development	Modernisation and Removal of Obsolescence in Concrete and Building Technology Laboratory	Civil Engineering	11.06 Lakhs
AICTE	Infrastructure Development	Up gradation of Device Simulation facility of Analog Circuit Engineering Laboratory	Electronics Engineering	8.71 Lakhs
MHRD, GoI	Rural Development Project	Unnatt Bharat Abhiyan	Management Technology	50,000
AICTE	Skill Development	Pradhan Mantri Kaushal Vikas Yojna	Electronics Engineering	2.5 Lakhs
AICTE	Skill Development	PRERANA	Management Technology	6.5 Lakhs

**SEED MONEY SANCTIONED DURING 2020-21:3**

Projects / Rs. 5.5 Lakhs

<b>SN</b>	<b>Title</b>	<b>Fcaulty</b>	<b>Amount</b>
1	Parametric studies on use of waste materials in cemented stone column	Dr. Prasad P. Dahale, Department of Civil Engineering	200000
2	Locust swarm detection and its subsequent repulsion	Dr. Bhumika A. Neole & Prof. (Mrs) A. H. Harkare, Department of Electronics & Communication Engineering	150000
3	Development of Regimented Illumination Reflectance Imaging System for Bio medical Applications	Dr. (Mrs.) Richa R. Khandelwal & Dr. (Mrs.) Kanchan Dhote, Department of Electronics Engineering	200000

## ESTABLISHMENT OF CENTRES OF EXCELLENCE

To boost research and innovation, the following multidisciplinary centers of excellence are established. These centres are being developed and would be nurtured by the groups of departments.

### RCOEM-NVIDIA CENTRE OF EXCELLENCE FOR ARTIFICIAL INTELLIGENCE, MACHINELEARNING, DEEP LEARNING AND DATA ANALYTICS

By Department of Computer Science & Engineering, Department of Information Technology and Department of Computer Applications.

### ENERGY RESEARCH CENTRE

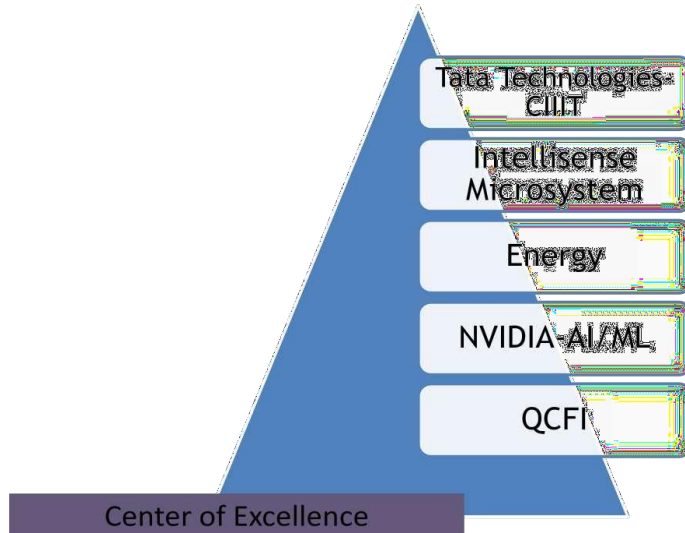
By Department of Electrical Engineering and Department of Mechanical Engineering.

### CENTRE OF EXCELLENCE FOR MICROSYSTEMS

By Department of Electronics Engineering, Department of Electronics and Communication, Department Electronics Design Technology, Departments of Basic Sciences, Department of Mechanical Engineering and Department of Biomedical Engineering.

### RCOEM-QCFI CENTRE OF HUMAN EXCELLENCE

By III Cell and Department of Management Technology.



Center of Excellence

**RCOEM**  
Shri Ramdeobaba College of  
Engineering and Management, Nagpur



Inauguration of CIIT

**RCOEM**  
Shri Ramdeobaba College of  
Engineering and Management, Nagpur



## At the Hands of Hon'ble Minister Shri. Nitinji Gadkari



## Inauguration of CIIT

**RCOEM**  
Shri Ramdeobaba College of  
Engineering and Management, Nagpur







## AWARDS RECEIVED IN 2020-21

- SAE Indian E-BAJA 2021 (Overall 2<sup>nd</sup> Rank and other six awards indifferent categories)



- Swadeshi Microprocessor Challenge – Semifinalist – award of Rs. 1 Lakh



## ONGOING PROJECTS

1. Design and Development of Oxygen Concentrator
2. Design and Development of Field Portable CT Scan
3. Design and Development of Solar based Adsorption Chiller



**YEAR WISE NUMBER OF OFFERS**

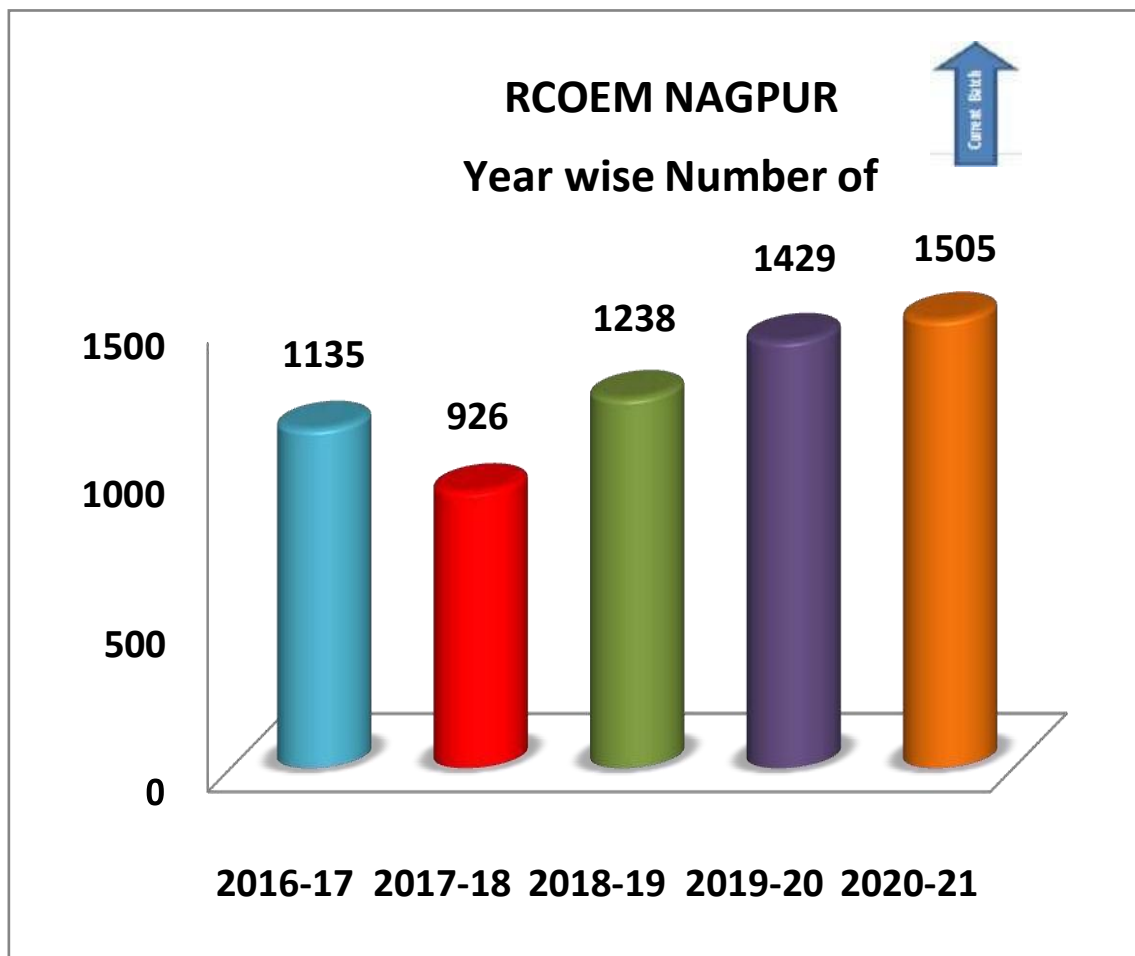
**NUMBER OF COMPANIES (LAST FIVE YEARS)**

**VARIOUS INITIATIVES AND ACTIVITIES**

## PLACEMENT STATISTICS

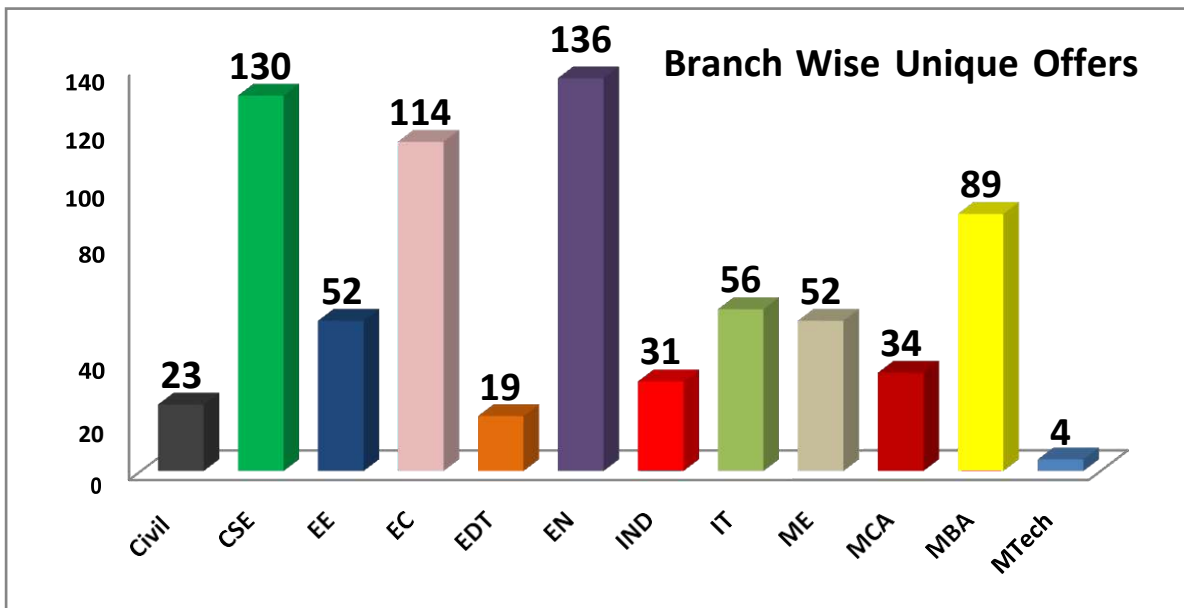
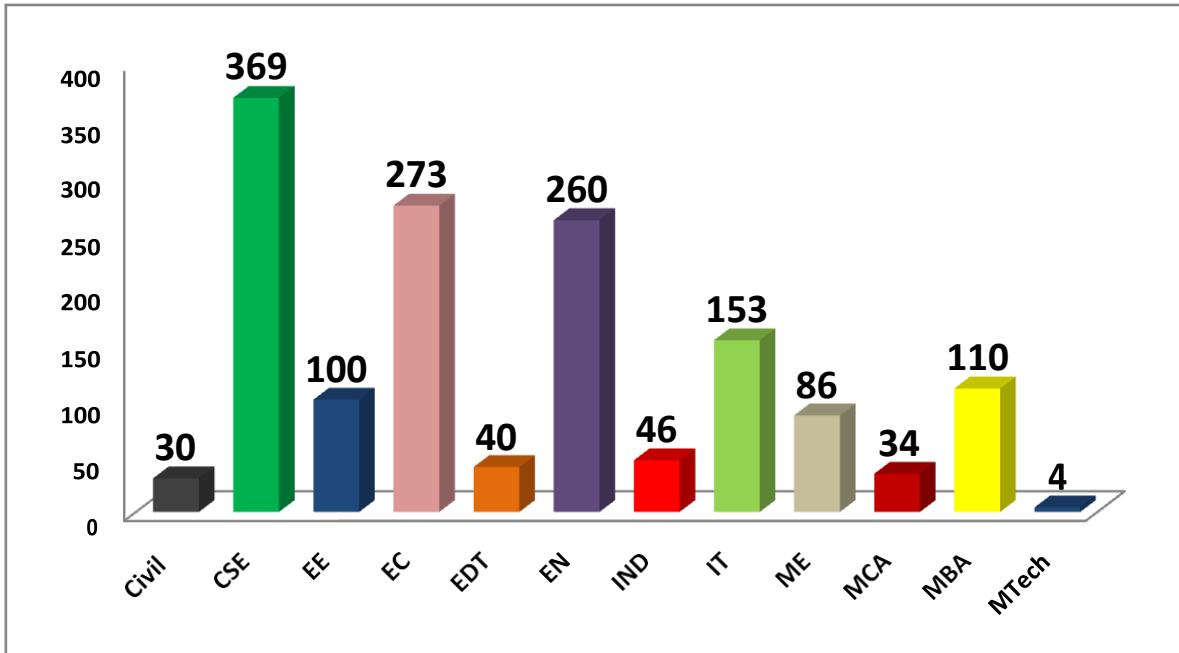
---

- ☐ RCOEM has achieved **highest number of offers for last two consecutive years.**
- ☐ This year till date we have **achieved 1505 offers** and are likely to achieve the **highest number of offers in last five years.**



## BRANCH WISE OFFERS FOR 2021 BATCH

RCOEM has achieved highest number of offers for this year. A branch wise distribution of offers is as shown below:-

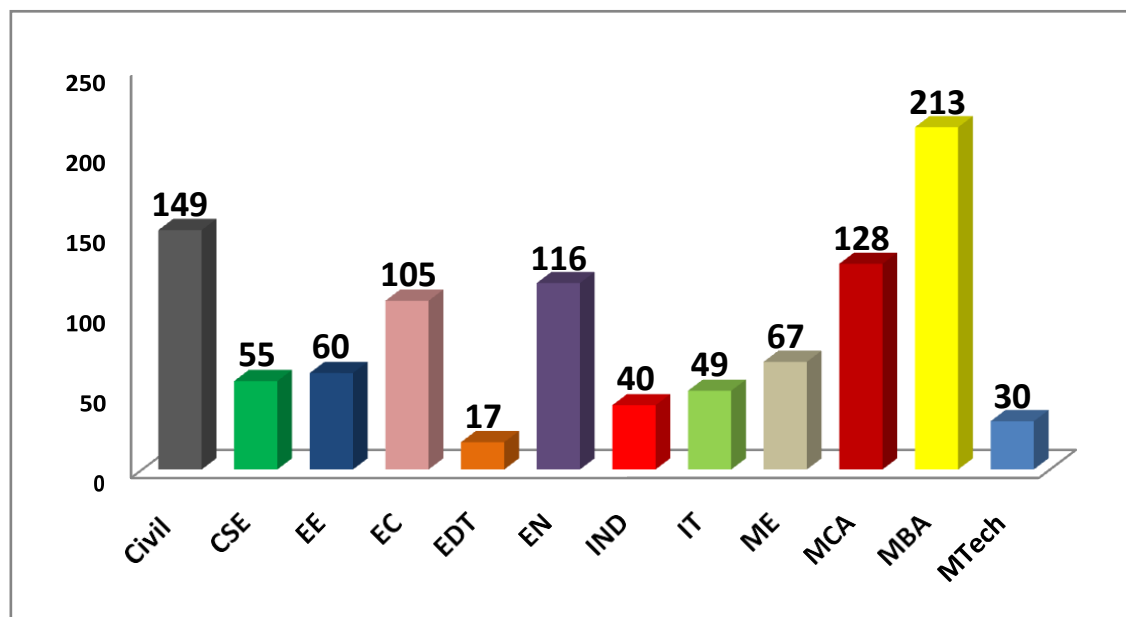


## INTERNSHIP STATISTICS FOR 2021 BATCH

☑ A total of **1029 students** have undergone full semester internships which is highest till now.

☑ **Highest stipend paid** to the students of **2021** was **60K**

☑ A branch wise distribution of internship is as shown below:

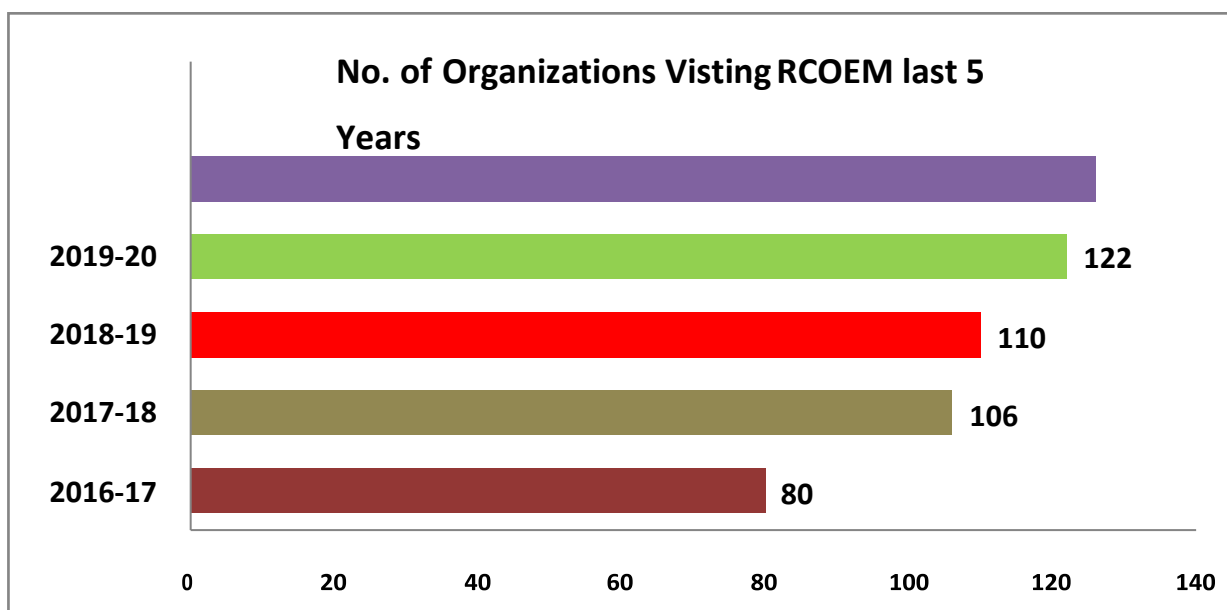


## COMPANIES VISITING RCOEM

☑ A total of **126 companies** have conducted Virtual Campus Drive for 2021 Batch

☑ Highest salary paid to the students of 2021 was 26 LPA by Amazon and 23 LPA by Goldman Sachs. The highest package offered in CORE sector was 7.5 LPA by Johnson Prism.

• **Last five years statistics** of number of companies hiring RCOEM students is as follows:-



## PLACEMENT INITIATIVES

### FOR 2021 BATCH PASS OUT STUDENTS - TRAINING INITIATIVES

- **66 hours of Campus Recruitment Preparatory Training Program by FACE** was organized in which **online training** on Apti tude, reasoning, verbal, non verbal patterns of questions, as well as on technical topics like C, C++ and basics of programming were taught to RCOEM students. A **total of 466 students** were benefitted by the program.
- **Online course by FinTech Education Initiative - UDAY by Government of Maharashtra and PWC** was held for RCOEM students. It was an online course co-created by industry and academia, and a channel for potential jobs on certification. A **total of 312 students** were benefitted by the program.

- **12 days Campus Recruitment Preparatory Training Session by HitBullseye** was conducted for RCOEM students. A **total of 327 students** were benefitted by the program.
- **Technical Training and Certification by Upgrad** was conducted for RCOEM students. It consisted of 10 Short Duration Programs of 2-6 weeks, in Data Science, Management & Technology.
- **AWS Future Engineers Program by Vibrant Minds** was conducted for RCOEM students. The program covered AWS Cloud Practitioner Essentials certification program.
- **FOSS IIT, Bombay Spoken Tutorial** was conducted for RCOEM students. The Spoken Tutorial project is the initiative of the „Talk to a Teacher“ activity of the National Mission on Education through Information and Communication Technology (ICT), launched by the Ministry of Human Resources and Development, Government of India.

#### FOR 2021 BATCH PASS OUT STUDENTS - WEBINAR INITIATIVES

- **Placement orientation webinar** was conducted for **RCOEM 2021 batch students**. They were informed about entire campus recruitment process and requirements of various companies from various sectors. Students were also made aware of the challenges ahead, likely market scenario, the scope and change of Hiring processes due to Covid-19 and student preparation against this backdrop was detailed with them.
- **Webinar on Post Covid Challenges: Student's and Industry's Perspective** was conducted for RCOEM students. The webinar was conducted by **Ms.Kanchan Khedkar , HR Lead-HCL**.
- **Webinar on Post Covid Challenges: Student's and Industry's Perspective** was conducted for RCOEM students. The webinar was conducted by **Mr.Praveen Kamath, General Manager & HR Head, Wipro Limited**.
- **Webinar series by Pantech** was conducted for RCOEM students. The webinar series was conducted by various reputed Engineering Colleges in India.



### FOR 2021 BATCH PASS OUT STUDENTS - MOCK TEST INITIATIVES

- **Company Specific Mock Test Series by FACE** was conducted for RCOEM students. This Online test series included aptitude, reasoning, verbal as well as technical tests of various **multinational companies which visit our college** as a practice for the Pre-final Year students.
- **Online Campus preparatory Mock Test Series by HitBullseye** was conducted for RCOEM students. This online test series included topics like vocabulary building, reading comprehensions, vedic maths, analytical reasoning, personal interview concepts, mathematical puzzles, written communications and leadership skills.
- **Online Test of FOSS IIT, Bombay Spoken Tutorial** was also conducted for RCOEM students. It covered online certification test on various Technical subjects as selected by individual departments.
- **Online Placement Readiness Test FNMAT by First Naukri** for MBA students of RCOEM students was conducted.
- **Online Placement Readiness Test FNAT and FNCODE by First Naukri** for RCOEM students was conducted. FNAT includes tests on Analytical, English and Quantitative analysis. FNCODE includes tests on various coding problems which are normally asked by Higher paying companies. The scores of FNAT and FCODE are shared in vast database of First Naukri clients for placement opportunities.

### FOR 2022 BATCH PASS OUT STUDENTS - TRAINING INITIATIVES

- **Digital Nurture Program by Cognizant**  
This is one of the kind **18 Months program** offered to RCOEM students. In this program the **students are trained and nurtured by Cognizant** and selected students are provided with **Pre-placement offers in 7<sup>th</sup> Semester. The pay package ranges from 4.5 LPA to 9 LPA. A total of 373 students from RCOEM are registered in this program.**
- **POLARIS PROGRAM BY PERSISTENT**  
It is a **two months summer boot camp program** based on **Salesforce Technology**. This program is being carried out by **Persistent, Nagpur**. In this

program students are trained in Salesforce and students who successfully complete the program are offered **Pre Placement offers in the pay package ranging from 4.71 LPA, 7.50 LPA and 9 LPA**. Currently **111 students** are continuing with this program and out of these **69 students are eligible for a package of 4.71 LPA and 42 students are eligible for a package of 7.50 and 9LPA**.

- **MARTIAN PROGRAM BY PERSISTENT**

It is a 2 months Technical Internship Program with Persistent, Nagpur. Students who successfully complete the program are offered **Pre Placement offers in the pay package ranging from 4.71 LPA , 7.50 LPA and 9 LPA**.

- **AUTOMATION EDGE PROGRAM BY VYOMLABS**

It is a 2 weeks Technical Training Program with Vyomlabs, Pune. The students are trained AI/ML, Web Automation and Data Massaging. After successful completion of the program, students will be provided with Internship opportunities.

#### **FOR 2022 BATCH PASS OUT STUDENTS - WEBINAR INITIATIVES**

- **“Career Recropedia” Webinar Series by Persistent, Nagpur** was conducted for **RCOEM 2022 batch students**. The students were informed on the various paths and domains available for fresh graduates. Students were also made aware of the challenges ahead and the scope of Hiring processes due to Covid-19.
- **“Campus2Cognizant” Webinar series by Cognizant** was conducted for 2022 batch pass out students.

#### **FOR 2022 BATCH PASS OUT STUDENTS - MOCK TEST INITIATIVES**

- **Campus Preparatory Online Placement Readiness Test by Calyxpod** is being conducted for **2022 and 2023 batch students** of RCOEM.
- ☑ **AMCAT Test by Aspiring Minds- Three tests** were organized and scores were shared to clients for placement opportunities.

## RCOEM Bags National Employability Awards

- RCOEM is amongst top 10% colleges in India who excelled in AMCAT test.
- The award is based on the performance of final year students in AMCAT 2021





# Student Activities

- **GYANODAYA**
- **AARUNI**
- **PRATISHRUTI**
- **BRANCH CUP**
- **OTHER EVENTS**

## **STUDENTS" REPRESENTATIVE COUNCIL (SRC)**

---

Students" Representative Council acts as a platform for the students to display their talent through co-curricular and extracurricular activities. It also gives them an opportunity to learn skills to plan, organize, and execute group activity.

There are various clubs are established in the college. They are:

1. Dance club
2. Drama club
3. Music club
4. Literary club
5. Photography club
6. Technical Club

Through these various clubs all students of UG and PG get opportunity to excel their hidden talent and gain success up to international level. Various social and academic activities are also organized by SRC during the year.

### **ONLINE ACTIVITIES UNDER TAKEN BY**

#### **STUDENTS" REPRESENTATIVE COUNCIL (SRC)**

The following is the list of events that are conducted centrally for all the students

<b>Sr. No.</b>	<b>Date</b>	<b>Department</b>	<b>Event</b>
1.	11/07/2020	SRC & TBI Foundation	Webinar on Managing Mental Health in Corona Outbreak by Dr. Sudhir Bhav
2.	15/08/2020	NSS and SRC	Independence Day celebrations
3.	20/09/2020	SRC (Music Club)	Workshop on Music Production
4.	26/09/2020	SRC	Online workshop on Mental Health Awareness in collaboration with Techfest IIT Bombay
5.	27/09/2020	SRC	MERAKI Fitness Workshop by Dr. Shruti Ravi Iyer
6.	04/10/2020	SRC (Dance Club)	MERAKI Dance It Out
7.	11/10/2020	SRC	MERAKI - Gateway to Glory
8.	17/10/2020-18/10/2020	SRC	Model United Nations (MUN)
9.	30/10/2020	SRC	WCL Essay Competition
10.	15/11/2020	SRC	All India Level Online Contest (Ramakrishna Math)
11.	24/01/2021	SRC	Parakram Divas Celebration (Netaji S C Bose)
12.	26/01/2021	NSS and SRC	Republic Day
13.	6/02/2021	SRC	Gyanodaya
14.	14/03/2021	SRC	Prevention of stress Depression and Suicides in Adolescents webinar by Dr. Kamalakar. W. Deoghare
15.	4/04/2021 – 11/04/2021	SRC	Branch Cup
16.	6/06/2021	SRC	CELEBRATION OF SHIV SWARAJYA DIN
17.	25/06/2021-27/06/2021	SRC	Aaruni

## WEBINAR ON “MANAGING MENTAL HEALTH IN CORONA OUTBREAK”

The Technology Business Incubators Foundation and Students' Representative Council of Shri Ramdeobaba College of Engineering and Management organized a webinar on “**Managing Mental Health in Corona Outbreak**” on **11<sup>th</sup> July, 2020**. The primary aim of this webinar was to encourage young minds to learn the importance of Mental Health and look after their precious minds. The webinar was delivered by Dr. Sudhir Bhawe (M.B.B.S, M.D. ) Faculty at the Department of Psychiatry at NKP Salve Institute of Medical Sciences.



## WORKSHOP ON MUSIC PRODUCTION

Amidst all the pandemic situation, we witnessed a new revolutionary age for online platform and adapting to the situation, Students' Representative Council introduced „MERAKI: a series of workshops“. Under this, SRC in collaboration with The Music Club conducted their first workshop on „**Music Production**“ on **20<sup>th</sup> September 2020** on virtual platform Microsoft Teams. Being a new and exciting topic, a tremendous response from **around 200 students of various colleges** was seen.

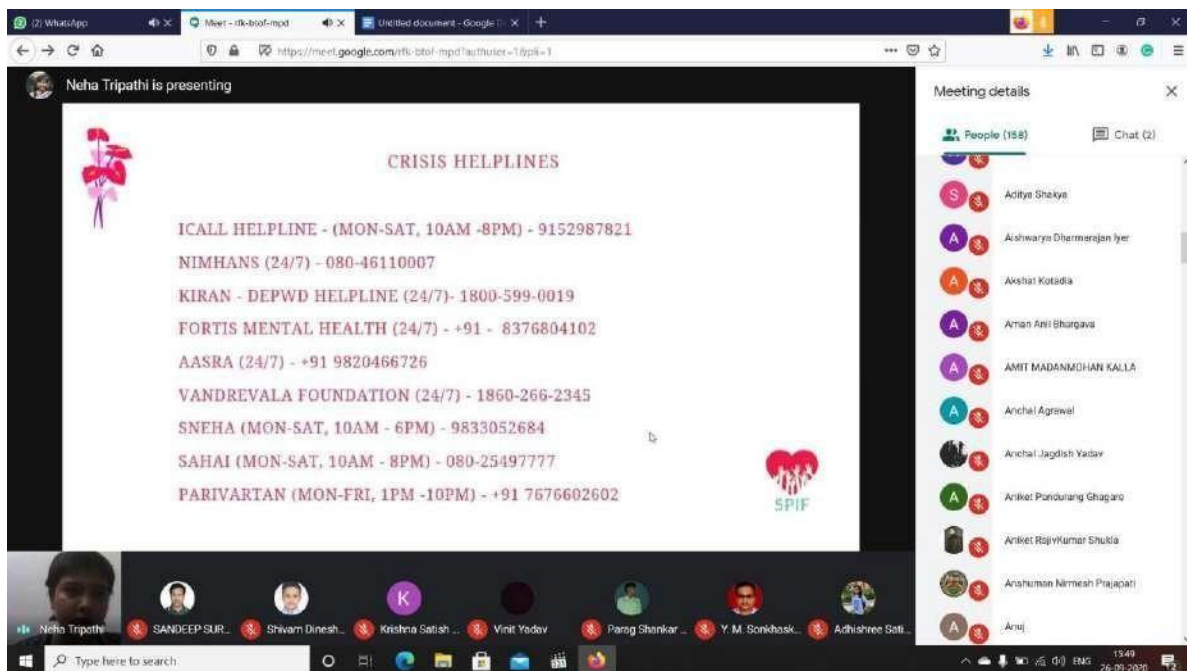
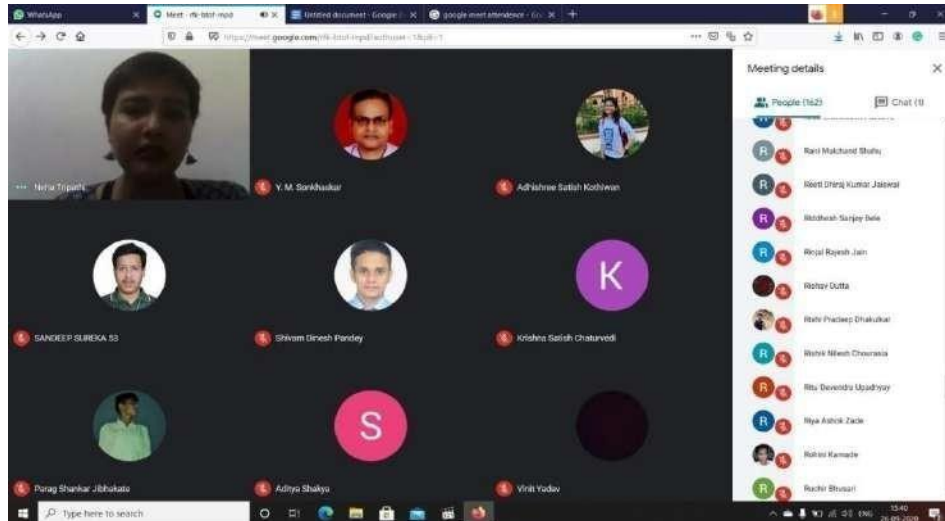


## THE TECHFEST, IIT BOMBAY

On September 26th, the TechFest, IIT Bombay in association with Shri Ramdeobaba College of Engineering and Management, Nagpur presents Online Workshops on Mental Health and Suicide Prevention, organized by a professional counsellor, which focused on how to deal with depression and help others facing the same. The Webinar was



open to all the students who registered for it and approximately **165 people were in attendance**. During the webinar, attendees shared their opinions, thoughts, problems, and suggestions on dealing with depression.



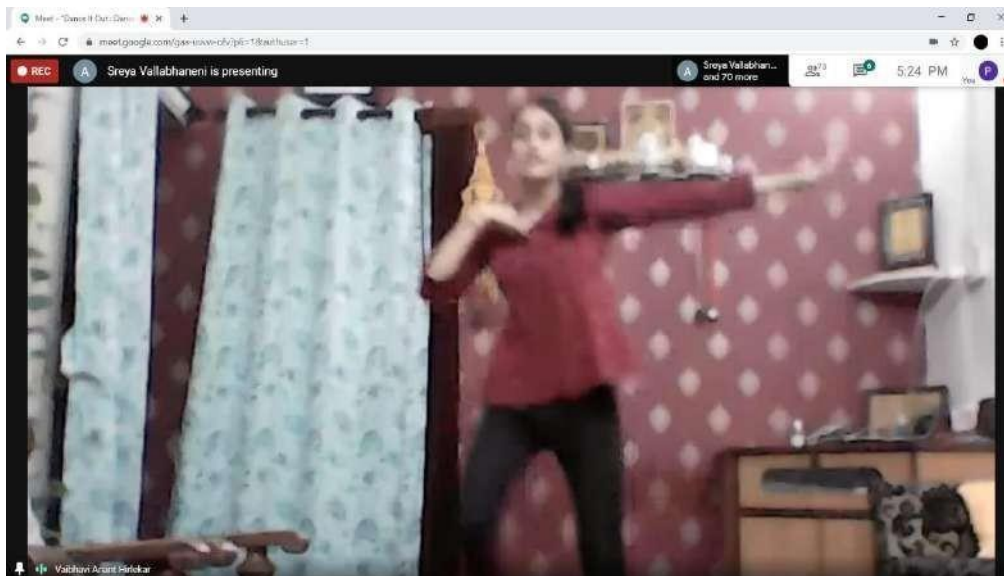
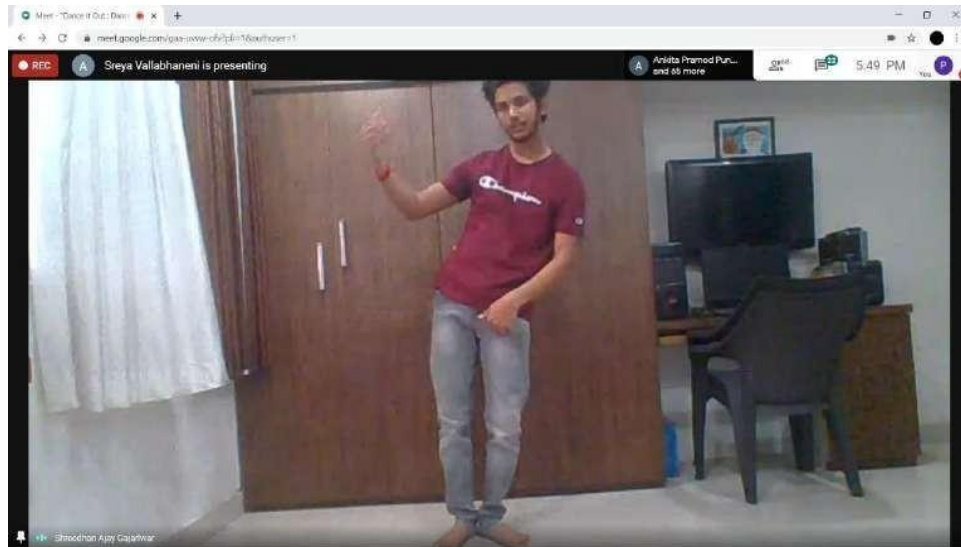
## TO DO OR NOT TO DO: WORKSHOP ON PHYSICAL FITNESS

Under „MERAKI: a series of workshops“, the Students“ Representative Council conducted second webinar called „**To Do or Not To Do** „to overcome all the obstacles that come our way during physical hard work and stress .It was observed that people had no physical fitness routine and they would sit idle at home due to lockdown and because of this everyone was keen to seek some right guidance to work upon their health by an expert. A total of 200 entries were received from various institutions like Government College of Engineering Nagpur, RCOEM,GMC Nagpur,Ycce ,J C Bose UST Faridabad, University of Virginia, Pt school and Centre, Amity university, Dayananda Sagar College of Engineering Banglore, Symbiosis International and many others. Webinar was organised on **27th September 2020 on virtual platform Google Meet.**



## DANCE WORKSHOP

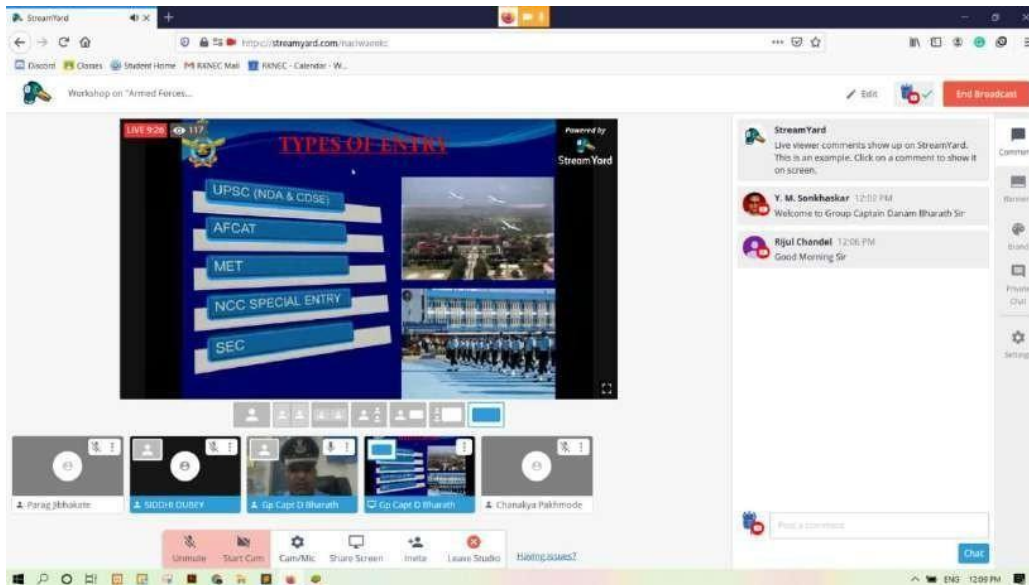
Under „MERAKI: a series of workshops“, the Students“ Representative Council conducted their third workshop on Bollywood Freestyle in collaboration with the **Dance Club on 4th October 2020** on virtual platform Google Meet. This was a great opportunity to take a break from regular boring quarantine schedule and have some fun, maybe that was reason, a huge response from various colleges of **around 170 students was seen.**



## GATEWAY TO GLORY: ARMED FORCES AFTER GRADUATION

Under „MERAKI: a series of workshops“, the Students“ Representative Council conducted their fourth **webinar for Defence Aspirants 11<sup>th</sup> October 2020 on virtual platform You Tube Live**. This was a great opportunity for all those who wish to join Army, Navy or Air Force after their graduation. The motto behind conducting webinar was to provide students with complete guidance and knowledge and giving a kick start to their aim. Around 450 students from various college

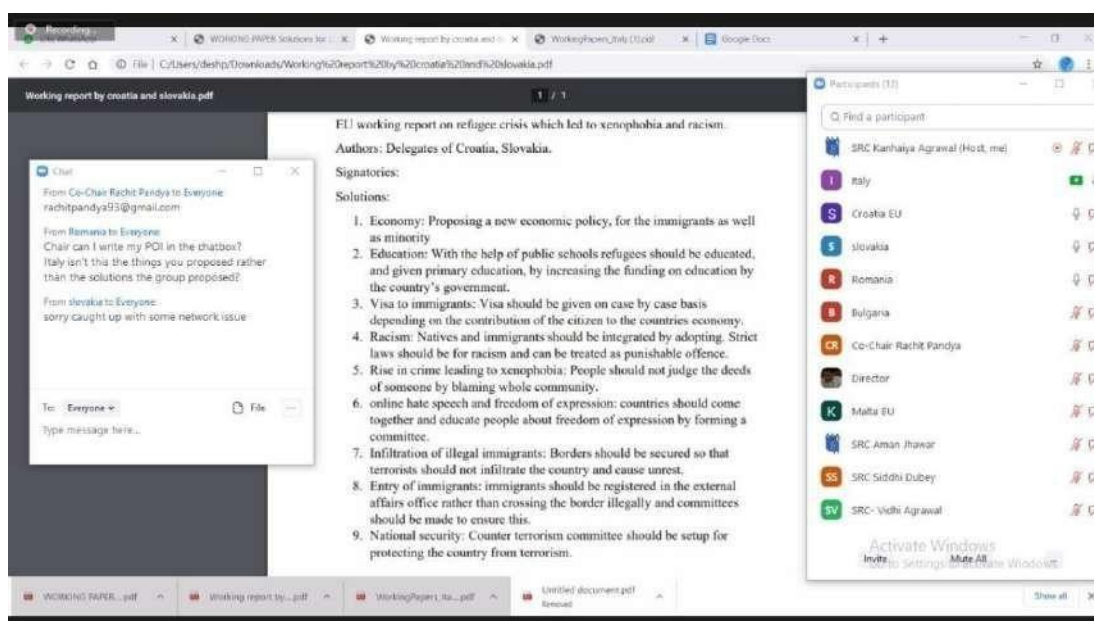
registered for the event, this was an overwhelming and tremendous response.



### RCOEM MODEL UNITED NATIONS

**The Model United Nations is a platform to encourage political thought and dialogue amongst the students all over the world. It is an interactive educational activity in which students simulate the workings of the UN or one of its many organs, agencies or affiliated bodies. Shri Ramdeobaba College of Engineering and Management**

**and SRC always encourages students to build and enhance their personality, broaden the knowledge horizon of students and empower them to become effective change agents and leaders of the tomorrow. This was first time RCOEM conducted MUN to provide platform for students to polish their skills. The two day event was conducted on 17<sup>th</sup> and 18<sup>th</sup> October 2020 through the virtual platform Zoom**



## WCL ESSAY COMPETITION ON “VIGILANT INDIA, PROSPEROUS INDIA”

The Students' Representative Council conducted Online WCL Essay Competition on **during 29<sup>th</sup> -30<sup>th</sup> October 2020**. The topic of the Essay was **“VIGILANT INDIA, PROSPEROUS INDIA”**. Google form was created and shared with students. 18 students from the college participated. 16

students had submitted hand written Essay in English and 2 Students in Hindi Language.

Dr. **Rituja Joshi** Faculty, Department of Management studies, RCOEM evaluated all the essays and declared 3 winners



### PARAKRAM DIVAS CELEBRATION

**(Online Webinar on the teachings of Netaji Subhash Chandra Bose and Poetry Recitation)**

Netaji Subhash Chandra Bose's birth anniversary is celebrated every year as 'Parakram Divas'. The Centre on Tuesday announced with pride that Netaji's indomitable valour and selfless dedication to the nation was remembered on the annual celebration of **23rd January**. Student's Representative Council organized a meet to pay respect and commemorate the **birth anniversary of Netaji on 24<sup>th</sup> January 2021 on virtual platform Google Meet**. Despite being in different cities, students united together to pay tribute.



## INDCUTION 2020-21

As per the model curriculum suggested by AICTE, a student has to undergo an Induction Program after joining the institute and before the commencement of classes. In our college the Induction programme was organized according to AICTE guidelines during 25th January to 3th February, 2021. The program comprises learning an art form, literature, social awareness, lectures, sessions on universal human values, yoga, sports, and familiarization to various departments in the college.

The objective of the Induction Programme was to give space and time to students to get connected with the new environment of the college and to make them feel a part of it. Also, the purpose of the programme was to inculcate the understanding and feeling of responsibility towards the nation and enlarge their vision beyond themselves to the society.

Due to Covid-19 pandemic this year the Induction Program for B. E. First Year students was held online. To suffice the needs, a virtual meeting platform (Zoom) was used.

First day, 25<sup>th</sup> January 2021, began at 11:00am with the 'Familiarization with different departments' was organized. Dr. Priti Mangrulkar (Activity In charge) started the session by inviting Dr. Sanjogta Meshram, Assistant Professor and Prof. In-charge B.E. First Year to deliver her welcome address to all newly admitted B.E. First Year students. Dr. Sanjogta Meshram briefed the students about the induction program and the various sessions. She also briefed them about registration process.

The session then proceeded with showing the students small videos clips related to all the departments of the institute. This included first year basic sciences (Physics, Chemistry, Maths, Humanities and Physical education) wherein the students were made familiar with all the faculties of the respective departments, their areas of research, courses taught by the departments and various facilities present in the department. The physical education department also highlighted the various inter collegiate activities that students of the institute participate during various events.

The students were also shown video clips of engineering departments which included (Civil, Computer science, Electrical, Electronics, Electronics and Communication, InformationTechnology, Industrial and Mechanical engineering departments wherein besides familiarizing students about the departmental faculties, they were also given information related to placements, trainings, research and internships. The students were also informed about the various centres of excellences of the institute and the carious facilities available to be availed by the students. The session concluded at 12:00 PM

**Second Session** began with Interaction with Industry person on Entrepreneurship development at 12:00 to 1:00 pm by Mr. Vikram Labhe. Mr. Vikram Labhe (Co-Founder and CEO, NEXT FANG) was introduced by Dr. Priti Mangrulkar (Activity In charge) while Dr. Pravin Dwaramwar (Dean, III cell) welcomed Mr. Labhe virtually.

Mr Labhe shared glimpses of his professional journey during his talk. He spoke about the importance of knowing an individual's strengths and utilizing them to the maximum. He also spoke about certain values system each must possess. He shared the beginning of his entrepreneurial or innovation journey when he went to Canada to pursue his Masters degree. He spoke of his corporate journey when he joined PMC Sierra, Canada as the first member in Memory Design Group. He worked on tools, flows, methodologies and designs.

He shared that the lack of tech product start up in India led to the beginning of his start up journey. He felt that this was a gap which India was unable to fill due to its location. This gave birth to his tech company Next FANG (acronym for Next Facebook Amazon Netflix Google). The idea was to work with early stage silicon valley start ups, bringing them to India at their initial stage and help them scale. Fivetran and Sureify were two such ventures. He also mentioned that Fivetran has come to campus for internship recruitments as well as full time recruitments. He also mentioned his active participation in various capacities in different organizations including NETRA, TiE Bangalore to mention few.

As final thoughts, he mentioned that opportunities are always there, one has to look for them. He also mentioned that if semiconductors can grow at a dramatic pace, the systems, applications and solutions would grow at an exponential rate over the next few years. There is a brighter future that awaits us. Healso extended his support to all the students as a mentor, guide or any capacity.

The talk was well received and the students had an over whelming response to the talk which was well reflected in the question and answer session. The students asked Mr. Labhe several questions ranging from how to develop entrepreneurial mindset to what was the biggest challenge that he faced as a fresher? Mr. Labhe appreciated the overwhelming response by the students and gamut of questions asked by them. The session successfully concluded by proposing vote of thanks by Dr. Priti Mangrulkar.

**Third session of the day began at 2:00pm with the 'Introduction of Student's Representative Council'.**

SRC, the body which always aims to provide students the best experience of their college life and the council which is always looked up by the students to resolve their issues was introduced to the first-year



students. Cultural Secretary SRC, Mr. Ankish Agrawal gave a brief introduction about the working of SRC. This was followed by a short introduction of all SRC members. The Objective, Aim and working of SRC was explained by the Cultural Secretary. Students got to know about different events they will be experiencing in their college life like Gyanodaya, Aaruni, Branch Cup, Pratishruti and many more. The after-movie of Pratishruti 2020 was also played to make students more connected to the environment they will be a part of. Seeing the introduction, students were highly energised and raised multiple queries to know the process of being a part of SRC. A detail about the mentorship program which is specially designed for the first-year students was also explained. Towards the end, Mr. Ankish Agrawal answered a lot of questions and welcomed the students to be the part of this prestigious institution. The induction took place on virtual platform of zoom with presence of 400+ students.

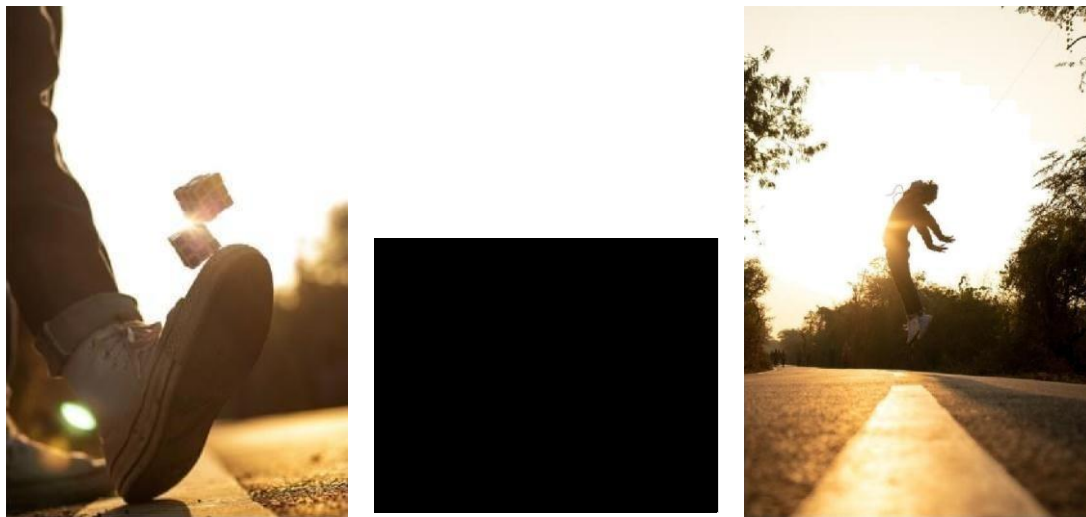
The whole event was possible only because of guidance of Dean SRC, Dr. Y.M Sonkhaskar Sir and Prof. Kanetkar Sir.

4<sup>th</sup> session of the day commenced with the 'Photography club' activity at 2:00 pm. Dr. P.D. Kulkarni, Assistant Professor of Physics Dept. gave introduction of Mr. Abdul Daniyal Kazi, Photography Club Coordinator.

Mr. Abdul Daniyal Kazi gave a brief introduction about the club. Students got to know and were shown the clicks of different events like Gyanodaya, Aaruni, Pratishruti and many more which are covered by Photography Club. This was followed by playing the After movie of Happy Hours'20. Seeing the first after movie the students were too excited and were curious to know the procedure to get in the club. A short introduction to 'What is photography and the Three main pillars of photography' was introduced which the students found interesting and after this a short but fun activity was conducted by one of the photography club member, Sanjana Rathi. Students were then shown two more after movies – Naalayak at RCOEM : Pratishruti'19 and the Main after movie of Pratishruti'19. Later the photos clicked by the club members were shown. At last the main Activity was introduced, a photography competition with theme: 'What's your current vibe?' in which they have to click a photo which defines their lockdown time with a black and white theme. Students were asked to participate in many other activities which were present on Photography club instagram handle stories. The event was concluded by the club member, Tithi Agrawal.

This session was attended by 300+ students virtually on Zoom platform. Dr. P.D. Kulkarni proposed vote of thanks at the end of the session.

*Glimpse of our member's photography*



First day session ended with the brief **talk on ‘Rashtriya Matdan Divas (National Voters Day) Celebration’**. Session was conducted by Dr. Renuka Nafdey, Asst. Professor, and Physics between 4.00 to 4.30 pm

She is a Nodal Officer (Voter enrolment and awareness) at RCOEM, Nagpur from 2017. On the occasion of National voters day (25<sup>th</sup> January), she briefed about the Importance of Voting , student’s right towards nations and how to get enroll in the voter list has been narrated. Various activity carried out in College campus under the ages of Electoral club has been mentioned. The Oath has been taken by the student on this occasion as a responsible citizen of India.

Number of Participant: 214

2<sup>nd</sup> Day, 27-01-2021 of B. E. First Year, Induction Program started with the Guest lecture on ‘Post Pandemic Preparedness’ at 11:00 by Dr Raghaw Saran.

He was introduced by Dr. Shilpa Kulkarni, Assistant Professor, Physics department. Dr Raghaw Saran, Ph.D(Chem), LM Inst. of Chemists, FICS, LM ISAS, Founder of Shillong Chapter & Ngp.Chapter, ISAS Vice President (national) ISAS.

During his session, Dr. Saran explained about various types of viruses and bacteria. He explained about the structure and features of COVID-19. He removed some myths about the infections. Dr. Saran elaborated about the preparedness required after the pandemic is over from health and precautions point of view.

His lecture was found to be fruitful in helping to prepare when all are set to work outside after the pandemic is over. Session was concluded by the vote of thanks given by Dr. Shilpa Kulkarni.

Second session on 27<sup>th</sup> of January 2021 was begun with the interaction with industry person at 12:00 noon on ‘Industry Interaction / Entrepreneurship Development’. RCOEM has always emphasized on strong industry institute relationship. The institute encourages its faculty and students to interact with industry in all possible ways with the spirit of deriving mutual benefits.

The session was delivered by Shri Ajay Agrawal, Senior Vice President & Head of CoE, AI/Analytics , Happiest Minds.

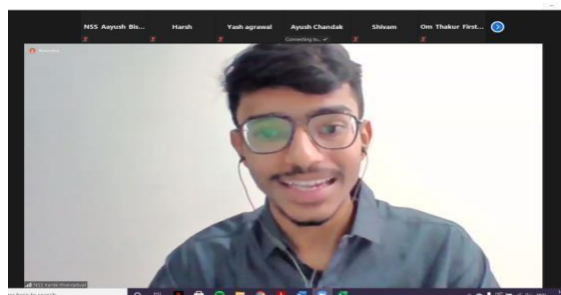
Prof. P.A Dwaramwar, Associate Professor, In-charge Technology Business Incubation, RCOEM, welcomed and introduced Shri Ajay Agrawal. During the session Shri Ajay Agrawal explained the latest technological developments in the IT industry. He spoke about Artificial Intelligence, Data Science, Big Data and Data Engineering.

He made aware the students about various challenges in building world-class products and solutions for emerging areas such as IoT, Analytics, Connected ecosystem, Cloud, Video, and Networking etc. After the session he interacted with students.

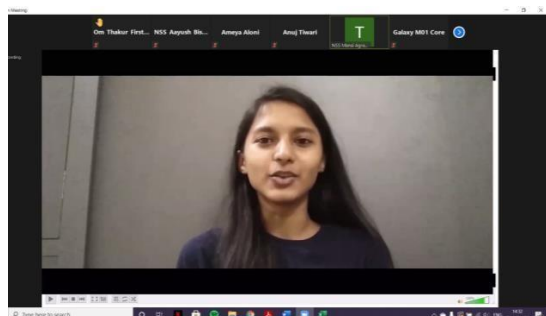
The session was concluded with vote of thanks proposed by Prof. P. D. Belsare.

### Third session of the 2<sup>nd</sup> day, on 27<sup>th</sup> of January 2021 commenced with the **‘Introduction to NSS AND NSS Activities’**

This year, the induction program for first year students was held online. To suffice the needs, a virtual meeting platform (Zoom) was used to present some informative slides on screens for students. The event began at 02:00pm as per the schedule.



To establish the idea about NSS, first a vocal introduction was brought in by volunteers, pictured through presentation. A great emphasis was put on the importance of being socially active to help society. To bring some more understanding, some short recorded videos of a few earlier volunteers were displayed that described their pleasant and gratifying experiences during their NSS journey. Followed by this, various events, activities and take backs from NSS were brought into the spotlight through slides.



The inspiring and encouraging experiences shared by volunteers developed fascination and curiosity amongst students towards NSS and social activities. Finally a small fun activity was arranged for the students. As an outcome, the new students did not miss the experience of a physical event. The induction took place on zoom with presence of 300+ students. The event was conducted successfully and concluded with the vote of thanks given by the Prof. Saket Kanetkar, Assistant Professor, Physical Education Department

Fourth session of the 2<sup>nd</sup> day, 27<sup>th</sup> of January 2021 started with the ‘**Music club Activity**’ at 3:00 pm. Dr. Renuka Nafde, Assistant Professor of Physics Department, was the activity In- charge, she had given the introduction of Music club members Mr.Aryan Pandharipande and Mr. Kanhaiya Agrawal, IIIrd year student, RCOEM and welcomed. They were the host of the event. They had given a brief introduction on the activities they do annually, Music Club’s achievements until now and a pre-recorded song by second year club members.

Om Jodhpurkar and Antara Andulkar had carried out the activities by converting a song in the form of emojis and participants were asked to guess the song. A great response is received by the participants. The overall response received for this activity by the student was very courageous.

Number of Participants were 314 students. Event concluded with the vote of thanks proposed by Dr. Renuka Nafde.

The first session on 28<sup>th</sup> of January 2021 of induction program for B. E. First year was begun with the ‘**Motivational speech**’ at 11:00 am by Dr. Bharati Gidwani (Director, Rejuvenate Stress Management Centre, Soft Skill graduate and Personality trainer). Dr. Priti Mangrulkar, Activity In charge, started the session by giving a brief introduction of the guest speaker.

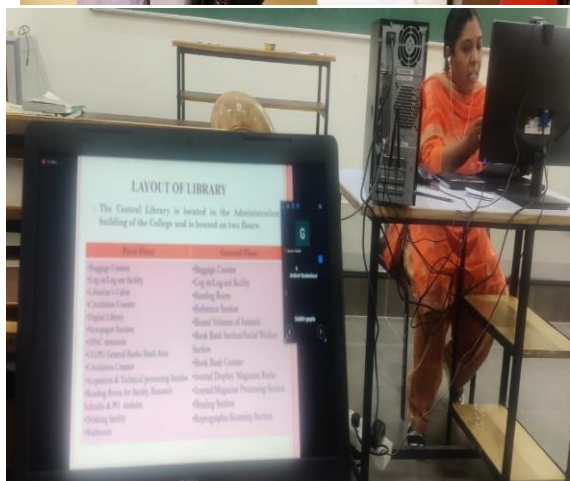
Dr. Gidwani started her talk with proverb about determination and action –“A journey of thousand miles begins with a single step.” She talked about what being successful really means and significance of having a roadmap to success. She also discussed about the common traits of successful people. Success comes from self discipline and self discipline is about being proactive while managing your time to achieve goals.

Dr. Gidwani also gave few tips to the students and asked them to inculcate these things in their lives. She advised students to respect their decisions, prioritise things, to not get isolated, to be flexible and open to change, promote growth mindset and to be self reliant and let go of the habit of spoon feeding. She also explained the students about the traditional learning and the shift to new pattern of problem based learning. She also suggested students to prepare a goal chart to set certain educational, carrier, financial, family and social/spiritual goal. She also emphasized that the goal setting should be SMART. (Specific Measurable Attainable Relevant Timely).

She concluded her talk with – “ Never hesitate, never feel low, Wear a smile and steal the show!” The students asked Dr. Gidwani several questions and appreciated her talk. The session concluded successfully by Dr. Priti Mangrulkar proposing vote of thanks.

Second session’s activity on 27<sup>th</sup> of January 2021 ,‘**Visit to Library of RCOEM**’ started at 12:00 noon with a brief introduction about the speaker and the Librarian, Dr. Cynita Christy by Dr. Monika R. Seth, Assistant Professor, Department of Humanities. Dr. Cynita Christy, the Librarian at Ramdeobaba College of Engineering & Management has more than 15 years of professional experience.

This activity was specially designed for BE first year students to get acquainted with the Library of RCOEM.



Dr. Cynita started by welcoming the newly enrolled 321 students to RCOEM and then continued with the Vision and Mission of the Central Library at RCOEM. She briefly explained about Central Library System and its working Hours. She also described about the layout of the Library which is located in the Administration Building of the College and is housed on two floors. She continued by explaining the rules and regulation of the library. A brief introduction about the library staff and its committee was also mentioned in her talk.

Dr. Cynita elaborated the collection of various books and journals in the library. She then introduced RCOEM Library website which is JUNO Campus. She explained the availability of e-resources and its accessibility through remote access. She extended her talk by giving information on Log-in- facility to

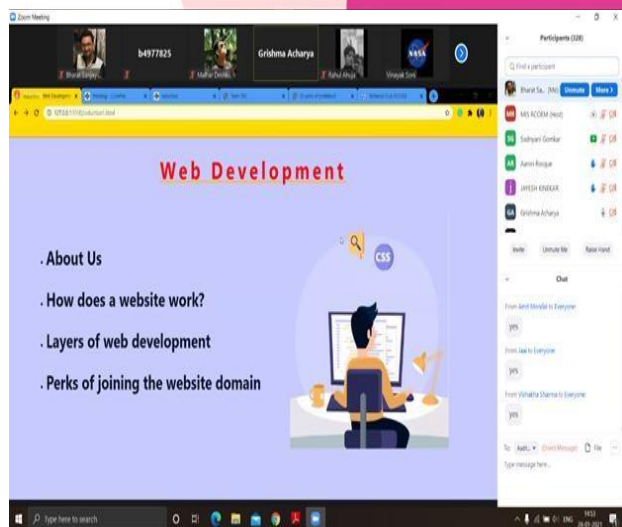
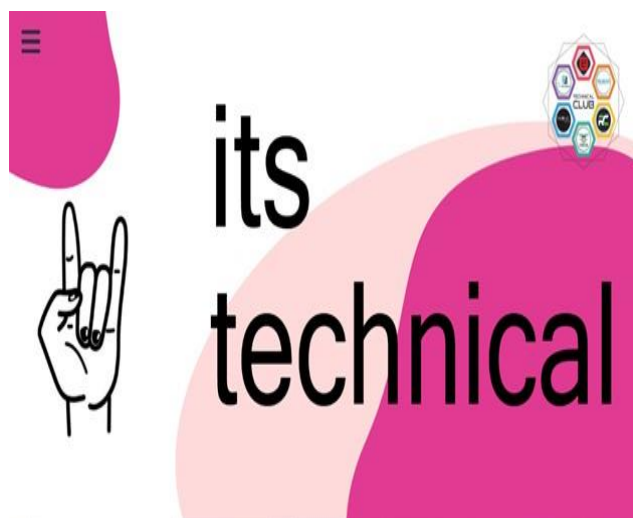
library management software and search facility. Through her power point presentation, a pictorial tour of various sections of the library was shown.

The session ended with few questions by the students about login ID and e-resources. These queries were well answered and explained by Dr. Cynita.

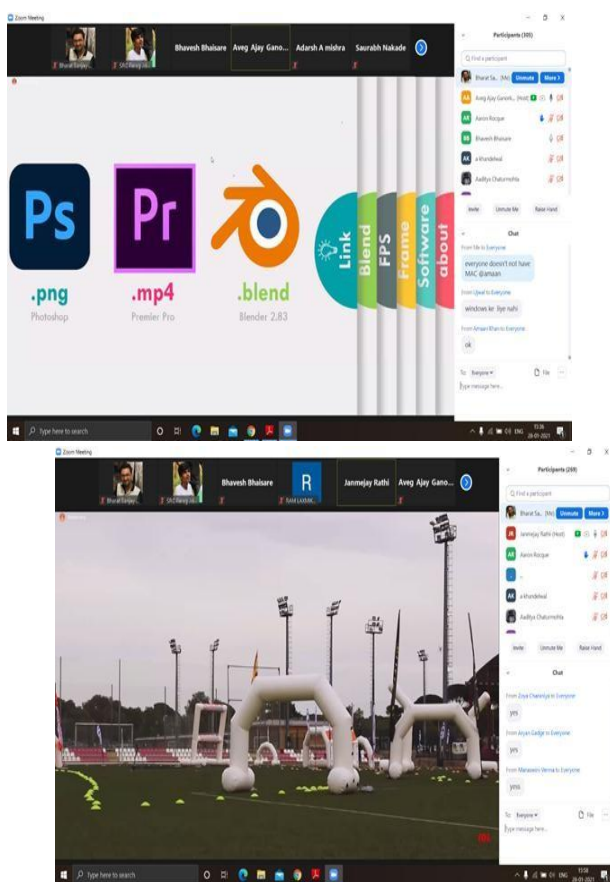
Before ending the session, Dr. Monika Seth proposed vote of thanks and asked the students to contact the librarian in case of any difficulty or they can also mail her at [librarian@rknc.edu](mailto:librarian@rknc.edu)

Third session of the day, on 28<sup>th</sup> of January 2021 begun with the ‘**Technical Club Activity**’ by at 2:00 pm for First-year students to make them aware of the interesting activities of the club and the various innovative initiatives. Dr. S. Butoliya, Assistant Professor, Chemistry Dept., Activity In-charge, was on hand to open the conference. After this, Parag Jibhakte, Technical Club Coordinator, SRC took over to continue with the rest of the event.

### **Demonstration of Technical Club Website: Website Designing (by Malhar Deshkar and Sadnyani Gomkar)**



The program started with a brief introduction by Parag Jibhakate and Samiksha Kodgire, the latter being the co-president of Technical Club, regarding the club and followed by club members explaining the various domains namely website, electronics, graphics, CAD Modeling, and drone. During the session, attendees gained a part in various activities under different domains. For example, under the graphics domain, a video was presented on how to use a blender; the electronics domain suggested a method of blinking a bulb using Tinkercad. During the session, the attendees had the opportunity to interact with the club members, who were also their seniors, to discuss their queries regarding the club, if they had any. The event lasted for about 2 hours, which ended successfully with a formal vote of thanks, which was proposed by Dr. S. butoliya and Parag Jibhakate.



CAD Modelling (by Ram Bhute and Suchet Nawade) Drone/ Aeromodelling (by Janmajay Rathi)

The induction program of the Technical Club was conducted flawlessly and without a hitch under the guidance of Dean SRC, Dr. Sonkhaskar sir, Dr. S. S. Butoliya sir, Technical club Teacher in-charge Prof. P B. Shiwalkar sir and the attendees seemed to enjoy the session, as was anticipated by their feedback in the end.

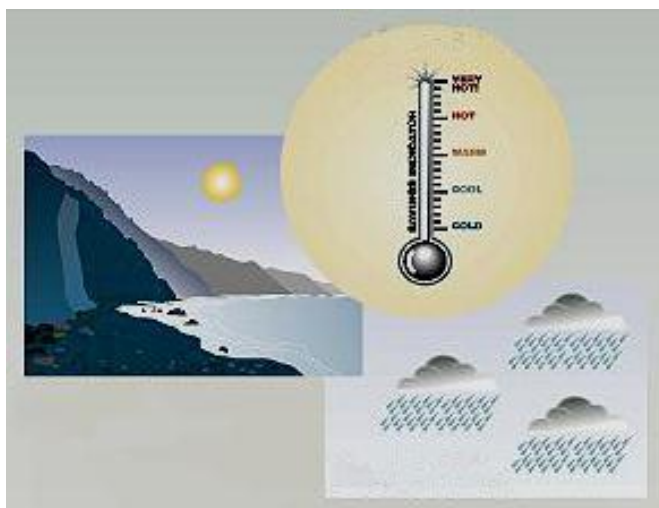
A morning session was conducted on ‘**Sports and Yoga**’ activities on January 29<sup>th</sup> 2021 at 8:00 am by the Department of Physical Education. The purpose of the session was to make students aware about what is sports and yoga subject and college participation in various games and sports activities.

Asst. Prof. Saket Kanetkar, was the activity in-charge, and also conducted the session as well. During the session he briefed the students about importance of sports and yoga class not only in day to day life but also from academic point of view also. He explained the students about college participation in various sports in RTMNU as well as invitational tournaments, college performance in those events, sports facilities available at campus as well as new campus.

In the end students interacted with the Prof. Saket Kanetkar, where in he cleared their queries. The session lasted for about 1 hour with 336 participants.

Second session of the day started with the **Lecture of eminent person** on 'Climate Change , Environment and Us' by Dr. Suvha Lama , Scientist NEERI, Nagpur Climate Change Division,

Dr. S.L. Mudliar, Assistant Professor had given the introduction of the guest. The main focus of the talk was divided in 6 sections viz, Climate change , The cause of Climate change, Climate Change and Environment, Climate Change and Us , Mitigative measures taken to control climate change, Role of NEERI in Climate change. Dr Lama initiated his talk by clarifying the difference between Climate and weather. He also elaborated the cause of climate change. The aftermath of climate change like green house effect, global warming was also explained to the audience. The impact of Climate change like Temperature rise, excessive precipitation, sea warming was also explained well.





The impact of climate change on Biodiversity was well demonstrated in the presentation. Lastly the role of NEERI in providing mitigative measures to control climate change was presented which was followed by the question answer session. Session was concluded by the Dr. S. L. Mudliar by proposing vote of thanks.

Third session of the day, 29<sup>th</sup> January, 2021 at 12.00 noon begun with the **‘Lecture on Human Values’**. A session was conducted by Dr. Vinod Asudani, Associate Professor, Dept. of Humanities, RCOEM, on topic, “Be Your Best” for the newly inducted First Year students. Around 300 students attended the session. The session was mentored by Dr. Akanksha Deshpande, Assistant Professor, Dept. of Humanities. She introduced the Guest Speaker to the students. Dr. V H Asudani tapped the nerves of the students by conducting an interactive session. Dr. V H Asudani is an Academician, researcher, poet, writer, social activist, psychologist, counsellor, HRD trainer, thinker, philosopher and public speaker.

The Session began with Dr. Asudani asking multiple questions to the students, in order to invoke their responses. He made them think about one’s purpose in life. He spoke about the overall development of students at campus and also highlighted the importance of developing a humanistic approach towards everything one does. He addressed the students highlighting the mission and vision of the College. He gave examples of celebrities like Sushant Singh Rajput and a few others, to tell students how in spite of having intellect, people succumb to pressure and sometimes, when they are not able to handle the pressures and emotions, resort to things that end up disappointing them for life.

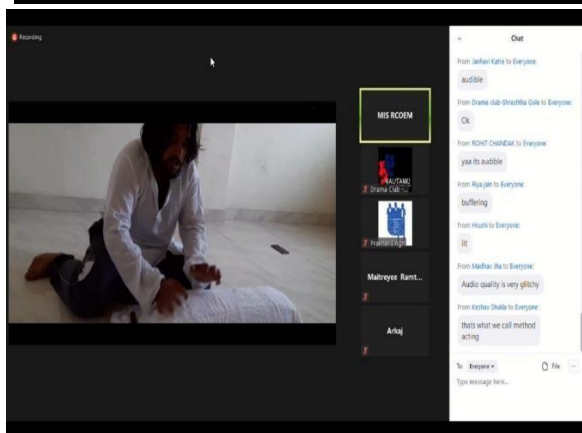
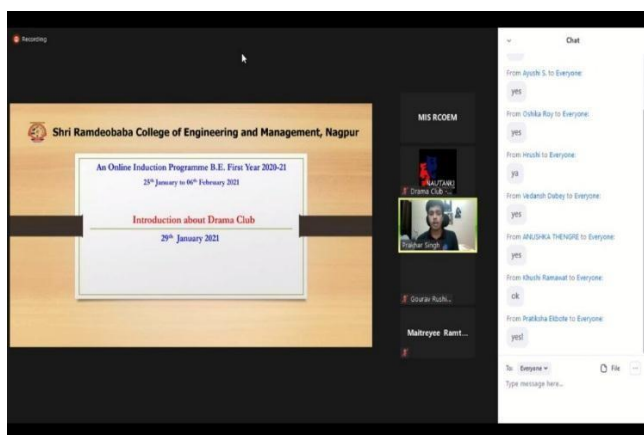
Students whole-heartedly presented their doubts. Dr. Asudani address the issues with great enthusiasm and zeal. Students were impressed with the session, and it was evident from their messages in the chat box.

Fourth session of the day, 29<sup>th</sup> January, 2021 started at 2:00pm with the **‘Drama Club’/‘Nautanki’** Activity. Dr. Akanksha Deshpande, Assistant Professor of Humanities Dept, had introduced the Mr, Prakahr Singh, Drama club, coordinator.

Mr. Prakhar Singh gave a brief introduction about the club. This was followed by a few performances prepared by the members of the Club. The Basics of Drama were explained to the students, after which a short activity was conducted by one of the members of the Club, Mr. Ayush Gandhi. The Students were asked to complete the story by continuing the following lines-  
“After the virus outbreak, I was the last man on earth. For years, I lived alone, on this whole planet.

One night, as the rain poured, I was sleeping in my bed, when suddenly, I heard a loud thud!  
It was a knock on my door...”

The winners of this activity were declared on the club’s Instagram handle.



Lastly the students were told about the various activities that take place in the club and several of their doubts about the club were answered. The induction was attended by 300+ students online through Zoom Call. Session was concluded with the vote of thanks by Prof. Akanksha Deshpande.

Fifth session of the day, 29th January, 2021 began with the activity of '**Rotaract Club**' at 3:00pm.

The session was delivered by the President of Rotaract club of Rcoem, Rtr. Abhishek Agrawal. He was introduced by Dr. P. D. Belsare, Assistant Professor, Dept. of Physics. He initiated the session by asking students' views about Rotary club of Nagpur, whether they ever did any social work before, did anyone join any NGO, etc., such general questions and then continued by telling the importance of social work and what satisfaction we get when we ourselves do something for the society.

Moreover, the President of club oriented the presentation starting with the introduction of committee members of this year. He then told what Rotaract club is all about, what the club does, what are its visions and goals, etc. He then threw light on the motto of the club for this year which is "I can't, We Can". Further he illustrated on the activities that were conducted throughout the year with some self-explanatory photos and videos. Then he insisted the new comers to join the club and be the part of Rotary family. He then ended the session by saying the quote of Helen Keller "Alone we can do so little; together we can do so much." The induction program was conducted and oriented in the best way.

Session concluded with the vote of thanks proposed by Dr. P. D. Belsare.

First session on 30<sup>th</sup> of January 2021 started with the lecture on RCOEM Technology Business Incubation centre where in Dr. P Dwaramwar and Vishal Shukla, Associate Professors, RCOEM, conducted a session titled, "**RCOEM Technology Business Incubators Foundation**" for the newly inducted

First Year students. Around 400 students attended the session. The session was mentored by Dr. Ranjit Ghumde, Assistant Professor, Dept. of Mathematics. He introduced the Guest Speakers to the students.

Prof. Pravin Dwaramwar began the session by explaining the need and motivation behind starting Technolgy Business Incubation centre. He covered following topics in his lectures:

- **VUCA World**
- **Innovation key to Survival**
- **RCOEM Innovation Ecosystem**
- **TBI Activity Calendar**
- **Funding available for various activities under TBI foundation**
- **Information about RCOEM-TATA Technologies - Center for Invention, Innovation, Incubation & Training (CIIT)**

After the lecture there was interactive session to address to the queries of the students. Students whole-heartedly presented their doubts and Prof. Pravin Dwaramwar addressed the issues with great enthusiasm and zeal. Session concluded with the vote of thanks given by Dr. R. G. Ghumde.

A session was conducted under the section Lecture on RCOEM Technolgy Incubation Business Incubation centre where Dr. P Dwaramwar and V Shukla, Associate Professors, RCOEM, conducted a session titled, “**RCOEM Technology Business Incubators Foundation**” for the newly inducted First Year students. The session was conducted on 30<sup>th</sup> January, 2021 at 11.00 a.m. through a Zoom Meeting. Around 400 students attended the session. The session was mentored by Dr. RanjitGhumde, Assisstant Professor, Dept. of Mathematics. He introduced the Guest Speakers to the students.

Prof Dwaramwar began the session by explaining the need and motivation behind starting Technolgy Business Incubation centre. He covered following topics in his lectures:

- **VUCA World**
- **Innovation key to Survival**
- **RCOEM Innovation Ecosystem**
- **TBI Activity Calendar**
- **Funding available for various activities under TBI foundation**
- **Information about RCOEM-TATA Technologies - Center for Invention, Innovation, Incubation & Training (CIIT)**

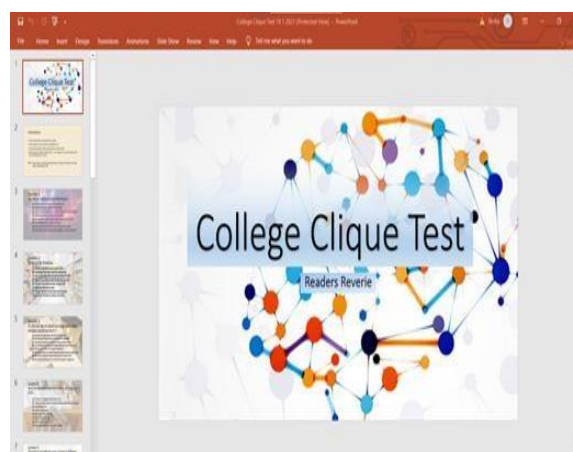
After the lecture was over Prof. Dwaramwar had reserved 10 minutes to address to the queries of the students. Students whole-heartedly presented their doubts. Prof. Dwaramwar address the issues with great enthusiasm and zeal. Students were impressed with the session, and it was evident from their messages in the chat box.

Second session of the fifth day, January 30<sup>th</sup> 2021, was conducted at 12:00 noon **on ‘Introduction to Sports, Yoga and Fitness’**. **Resource person was Dr Aruna Dogra** faculty of P G T Dept. Of Physical Education, R.T.M Nagpur University with expertise in Athletic Care &Sports Medicine and holds a diploma in Naturopathy and Yogic Sciences.

The program started with a brief introduction of Dr. Dogra madam by Prof. Saket Kanetkar, Assistant Professor, Dept. of Physical Education. Madam begun her session with What is health and lifestyle? And how they are related, she gave student idea about health which covers both physical as well as mental health, during her session she gave tips to student on how to live a healthy lifestyle & what is fitness. After that she told the importance of sports, yoga and fitness to the students and their vital role in everyone's life.

In the end students discussed their queries regarding the fitness and yoga, madam gave them wonderful and satisfying reply and cleared various confusion of students regarding yoga and exercise. The event lasted for about 1 hour, total attendee were 341, which ended successfully with a formal vote of thanks, which was proposed by Asst. Prof. Saket Kanetkar who also was activity in-charge of the program.

Third session of the day begun with '**Literary Club**' activity at 2:00 pm. Dr. S. Butoliya started the session with the introduction of the club members Richa Duhan, Rishabh Parihar and Mrudani Deosthani. They gave a brief introduction about our club and the purpose of the club formation. Meaning of the term 'Readers' Reverie' was explained. This brief introduction was followed by a video which portrayed the inner environment of the club to give the students a better idea of the club.



### **Activity 1: The College Clique Test**

First activity was a test designed by our club members to give first year students an idea of our college campus and various cliques associated with the college. This was a fun activity and not a serious personality test. This was an engaging & interactive activity wherein everyone participated on an individual level.

*(By Club Members Rishabh Parihar, Mrudani Deosthani and Richa Duhan)*

**Presentation** – A poem written by one of our club's member was pre - recorded and presented by her. Title of the poem was 'Swaagat hai!' welcoming first years in the college and was apt on this occasion of Induction for the First years.

*(By Club Member, Mrudani Deosthani)*

**Taking into the Club**– In this segment, one of our club’s member told everyone about the Club’s achievements, Competitions and Events conducted in the club and Club’s Social media.

*(By Club Member Yadav)*

## **Activity 2: Treasure Hunt**

Induction was concluded on another activity which was an online Treasure Hunt on Instagram.

*(By Club Members Devang Baheti and Tanisha Agrawal)*

The smooth conduction of this Online Induction was held under the guidance of Dean SRC, Dr. Y. M Sonkhaskar sir and Teacher In-charge Dr. S. Butoliya Sir.

Fourth session on 30<sup>th</sup> of January 2021 started with the a ‘**Dance club**’ activity at 3:00 pm. Dr. Renuka Nafde was the activity in-charge, she introduced the club members. Activity was hosted by Aditi Singh, Sreya Vallabhaneni and Mansi Gupta. Live activity by done by doing the Choreography they encouraged the students to perform at their place as well. How dance activity could be helpful to get rid of stress was also explained by them. Small activities were carried out for participants, which was done with enthusiasm. Number of participants were 318 newly admitted B. E. First Year students.

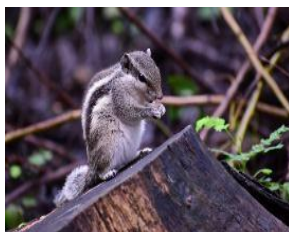
On 1<sup>st</sup> February 2021, first session started with ‘**REEF**’ activity at 11:00 am. A brief introduction about the speaker and the In-charge of the club Dr Swaroop Laxmi Mudliar was given by Dr. Monika R. Seth (In-charge of the activity)

Dr Swaroop Laxmi Mudliar is an alumnus of Laxminarayan Institute of Engineering and Technology- Nagpur. She has to her credit fellowship from CSIR, NEERI where she worked on 29 Environmental Impact Assessment projects. This activity was specially designed for BE first year students to get acquainted with the environmental club of RCOEM.

Dr. Mudliar started by welcoming the newly enrolled 427students to RCOEM and then continued with the Environmental Policy which is in line with the vision 2030 of the Government. After a brief introduction of REEF Dr. Mudliar emphasized the mandatory participation in AICTE initiatives which are announced from time to time. She talked about the foundation and past activities of the club. REEF was formed on 25<sup>th</sup> January 2012 by Dr. D. Mehra

The period from 2012 to 2013 was a sensitization period for REEFians. Activities which were undertaken by REEF were discussed in detail. These activities were

- Bird Watching
- Forest Cleaning





- Tree Plantation
- Global Tiger Day
- Social Outreach Paper Recycling

Dr. Mudliar also discussed about the most significant contribution where REEF was adjudged as the winner of WIPRO Earthian 2014 award. It was compared with national and international standards. Essays and research papers were prepared on given themes as part of the competition.

Dr. Mudliar briefed the students about the present activities too. She elaborated about the Poster Making Competition which was conducted to spread awareness about current environmental issues. Few more activities which are conducted under her mentorship are

- Manja Removal
- Ambazari Cleaning Drive
- Bird Rescue
- Bird Watching & Ambazari Bird Survey

Dr. Mudliar extended her talk by giving information of REEF page on Facebook and on RCOEM Website. The session ended with few questions by the students about joining the club and its process. There was overwhelming response by the students for the club. Few started giving suggestions about starry dogs and their feeding. These queries were well answered and suggestion was appreciated by Dr. Mudliar.

Second session on 01-02-2021, commenced at 12:00 noon with the '**Inspirational Speech**' by Dr. Yugal J. Rayalu, Retired HOD, Vocational Education Dharampeth M.P. Deo Memorial Science College, Nagpur. He was introduced by Dr. R.G. Ghumde, Assistant Professor, and Mathematics Dept.

Dr. Yugal J. Rayalu has 35 Years of experience, presently working in freelancing as an HR Trainer, Motivator and Educator. He had given a motivational talk. Students were inspired by his talk. He had explained the students how to work for the upliftment of the down trodden and how to help our nation with the help of day to day life examples and practical problems. He had shared his experiences with students. With the message of Mother Teresa "Hands that help are Holier than the lips that pray" he has concluded his talk.

In all the talk was very helpful from the student's point of view. Session was concluded by vote of thanks proposed by Dr. R.G. Ghumde.

Third and fourth session was having the two tests namely English Proficiency/ testing the English grammar and Testing of Mathematical Ability. English Proficiency test was conducted by Prof. Jasleen Rihan, Assistant Professor, Department of Humanities. Test was based on basic concept of grammar as well as communication skill. Paper pattern was objective type conducted through online mode (Google form/quiz) at 2:00 to 3:00 pm.

Test on Mathematical Ability was conducted online by Dr. Prafulla Bagde, Assistant Professor of Mathematics Department.

On the 3<sup>rd</sup> of February 2021, there was a session on Gems Registration' Prof. Aparna Gurjar, Assistant Professor, MCA Department conducted the session. She had briefly explained the functioning of GEMS. How students can access it? How do parents can check the performance of their ward. She also told that online lecture will be conducted through GEMS and student's attendance will be fetched by GEMS automatically.

In this way, newly admitted students were welcomed and the objective of the Induction Programme was to give space and time to students to get connected with the new environment of the college and to make them feel a part of it was achieved to a good extent. Students shown the overwhelming response to all the events.

First Year Induction Programme, 2020-21 was successfully organized by team work of all the faculty members, co- coordinators, Dr. P.D. Belsare and Prof. Saket Kanetkar and Dr. S.M. Meshram, Prof. In-charge B.E. First Year teaching to B. E. First Year.

---

## GYANODAYA- INDUCTION PROGRAM FOR FIRST YEAR

**Tuesday 6<sup>th</sup> February, 2021**, Shri Ramdeobaba College of Engineering & Management hosted GYANODAYA, the Induction Program for First Year students through online streaming. **The function was inaugurated by lighting the traditional lamp at the hands of Pu. Premprakash Swami, BAPS Swaminarayan Sanstha, Chief Guest for the occasion**, Shri Chandrakantbhai Thakar, Vice Chairman, RCOEM, Shri. Kailashchandra Agrawal, Secretary RCOEM, Shri Rajendra Purohit, Secretary, RCOEM, Shri Ashok kumar Pachariwala, Treasurer, Shri. Bhagwandasji Daga; Executive member RCOEM, Dr. R. S. Pande, Principal, Dr. S. D. Mohgaonkar, Dean Second Shift, Dr. Y. M. Sonkhaskar, Dean Students" Representative Council (SRC) and Dr. Sanjogta Meshram, In-charge First Year BE.

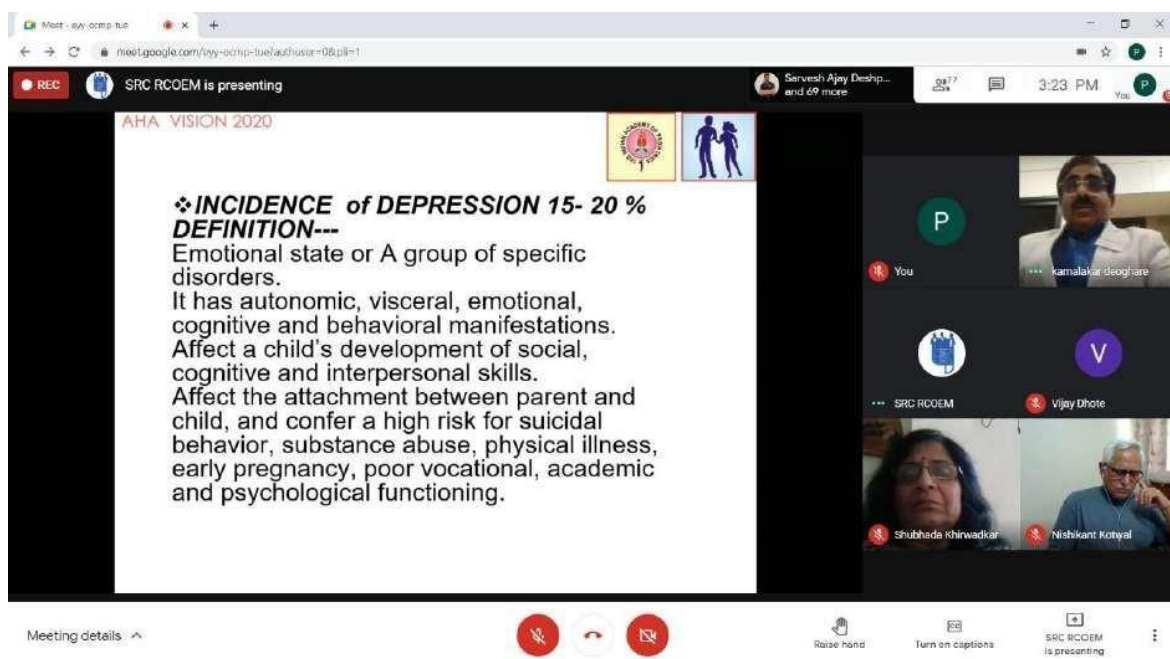




## PREVENTION OF STRESS, DEPRESSION AND SUICIDES IN ADOLESCENTS

Under „MERAKI: a series of workshops“ Students“ Representative Council conducted webinar on Prevention of Stress, Depression and Suicides in Adolescents to overcome all the mental obstacles that come our way during our regular and work life .It was observed that suicide rate has hiked in the pandemic period and because of this everyone was keen to seek some right guidance to work upon their mental health by an expert .A total 100 entries were received from various institutions like STSR medical College, VNIT Nagpur, Ace adolescent health, M&M , DIEMS ,SRCOEM and many others.

Webinar was organised on **14<sup>th</sup> March 2021 on virtual platform Google Meet.** SRC member Jaspreet Singh Bhatiya gave short introduction about the guest speaker **Dr.Kamalakar W Deoghare; M.B.B.S; D. C. H; CCEBDM.**



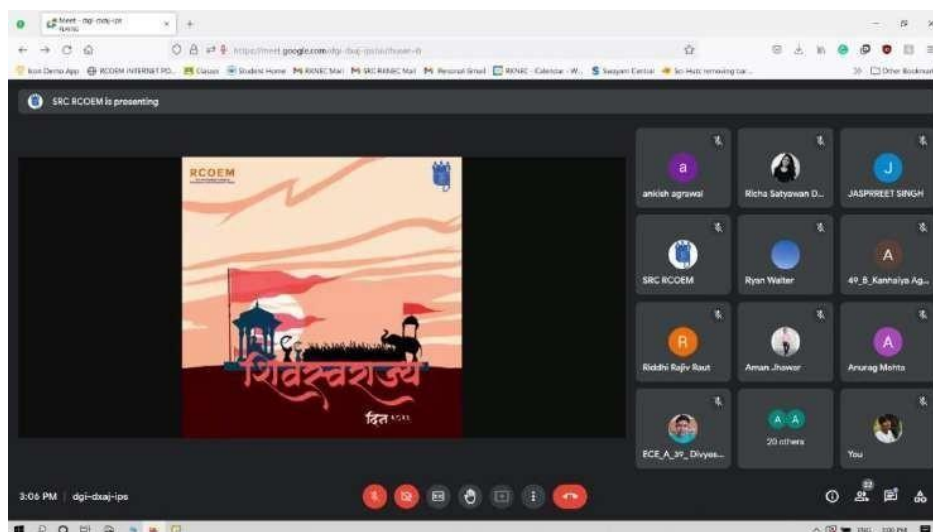
The screenshot shows a Google Meet interface during a webinar. The main content is a presentation slide titled "AHA VISION 2020" with the following text:

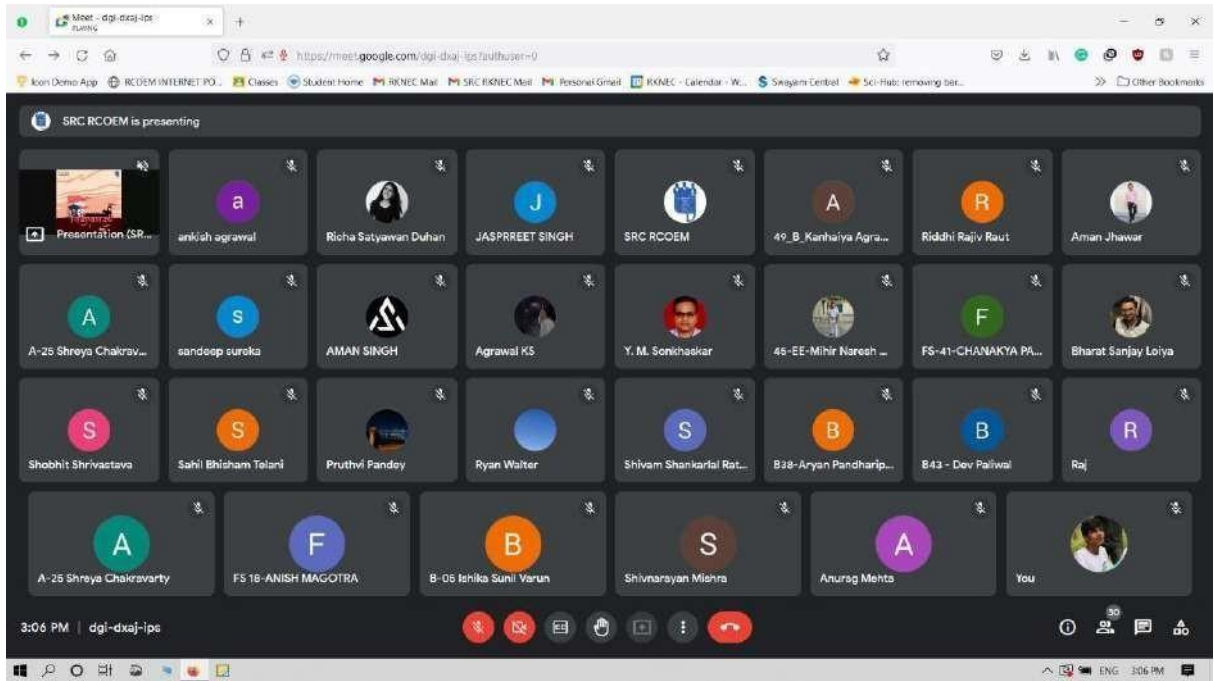
**❖INCIDENCE of DEPRESSION 15- 20 %**  
**DEFINITION---**  
Emotional state or A group of specific disorders.  
It has autonomic, visceral, emotional, cognitive and behavioral manifestations.  
Affect a child's development of social, cognitive and interpersonal skills.  
Affect the attachment between parent and child, and confer a high risk for suicidal behavior, substance abuse, physical illness, early pregnancy, poor vocational, academic and psychological functioning.

The slide also features a logo for the American Heart Association (AHA) and an illustration of two people. The meeting interface includes a top bar with "SRC RCOEM is presenting", a participant list on the right showing "You", "kamalakar deoghare", "SRC RCOEM", "Vijay Dhore", "Shubhada Khirwadkar", and "Nishikant Kotwal", and a bottom control bar with icons for mute, video, and other meeting functions.

## CELEBRATION OF SHIV SWARAJYA DIN - 6<sup>TH</sup> JUNE 21

The Students' Representative Council conducted webinar to pay tribute to the Shivaji Maharaj, the founder of the Maratha Empire. The coronation ceremony of Shri Chhatrapati Shivaji Maharaj, the founder of Hindvi Swarajya and the deity of Maharashtra, is celebrated with great enthusiasm at Fort Raigad on 6th June every year. Shivara was crowned on June 6, 1674. Therefore, every year on 6th June, the Shiv Rajabhishek ceremony is celebrated as per the date. Every year, this day is marked to pay homage to the Maharaja









# Certificate Of Participation

This certificate appreciates

**Pranav Mudaliar**

for participating in **Google Cloud Community Days India** organised by **GDG Cloud Communities** in India on **January 22-23, 2021**.



GDG Cloud India

LOKMANYA TILAK JANKALYAN SHIKSHAN SANSTHA'S  
PRIYADARSHINI COLLEGE OF ENGINEERING NAGPUR  
THE LITERARY CLUB  
DEPARTMENT OF HUMANITIES -26TH NOVEMBER 2020

**CERTIFICATE OF APPRECIATION**

This Certificate is presented to Kunal Aanjankar  
of Ramdeobaba College of Engineering and Management  
for the outstanding performance in **National Level E-quiz** on  
**"The Indian Constitution"** organized by The Literary Club  
Department of Humanities, Priyadarshini College of Engineering  
Nagpur

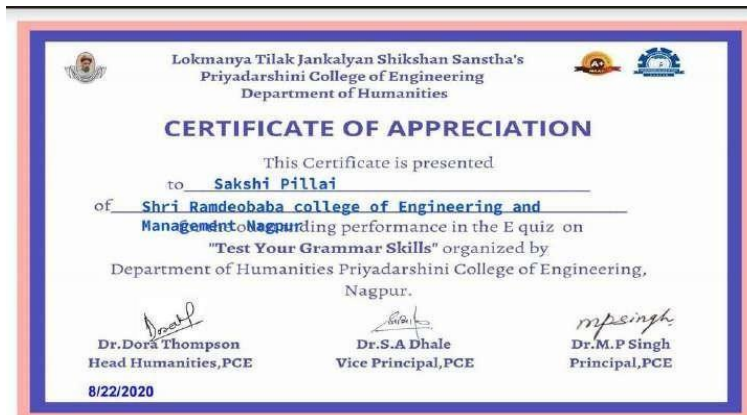
*DR. ROMAN JANGBANDHU*  
COORDINATOR

*DR. DORA THOMPSON*  
CONVENOR

*DR. S. A. DHALE*  
VICE PRINCIPAL, PCE

*DR. N. P. SINGH*  
PRINCIPAL, PCE

Made for free with Certify'em







## Extension Activities

## SPORTS ACTIVITIES

### NATIONAL SPORTS DAY CELEBRATION 29TH AUGUST 2020 AAGAAZ 2.0

On the account of National Sports Day, the birth anniversary of hockey legend, Major Dhyan Chand, the Department of Physical Education, RCOEM, organized its 2nd edition of AAGAAZ which is “AAGAAZ 2.0” on 29-30 August for RCOEM students. Due to Covid-19 pandemic, this year **AAGAAZ 2.0** was organized through an online medium i.e. on Google meet (<https://meet.google.com/ckk-yipt-tsz>). The online event was inaugurated on 29<sup>th</sup> August 2020 by Dr. Sharad Suryawanshi, Director of Physical Education and Sports, RTMNU. We received total **52 registrations** and **total 33 participants** took part in the online event.

**1. INDIVIDUAL EVENT** for both boys and girls which included 5 levels. On online platform Google meet we conducted these levels.

Sr no.	For Boys event included	For Girls event included
1	Different kind of push-ups	Knee push-ups
2	Different kind of squats	Suryanamskar
3	Different kind of lunges	Different kind of yoga poses
4	Different kind of crunches	Plank and Squats
5	Different kind of burpees	Crunches and Burpees
6	Different kind of plank	Aerobics

These were the different kind of exercises that were included in all the 5 levels.

**2. In TEAM EVENT**, a team includes 3 boys and 2 girls. The team event comprised of:

Sr no.	Event
1	3 min dribbling
2	21 Suryanamaskar
3	2 min skipping
4	Lifting task with one leg in the air
5	Tongue twister

Individual Events for boys and girls as



well as team events were conducted on online platform Google meet. The participants logged in on the given link (link) from multiple cities to participate in this

year AAGAAZ 2.0. A remarkable moment took place on 29<sup>th</sup> August, one of the participants was from Jammu, he was facing network issue but his determination and passion did not stop him from participating as he went from his place to a mountain place where network was more feasible.

## INTER BRANCH CUP CHESS 2020-21

This year an inter branch Chess tournament was organized by Department of Physical Education which was conducted this year through an online platform **CHESS.COM**. Every branch participated in the chess branch cup. Fixtures were done online on Google meet by SS and JSS were sport secretary of each branch was present. Finals were conducted on 14<sup>th</sup> October 2020. This year total 11 team in Men"s with 53 students and 10 teams in women"s section with 39 number of students participated.



**DUE TO COVID -19 PANDEMIC, UNIVERSITY AND INTERCOLLEGIATE ACTIVITIES WERE NOT CONDUCTED DURING THIS SESSION, ONLY FEW ACTIVITIES ARE CONDUCTED AT COLLEGE LEVEL:**

- **RCOEM FIT INDIA FREEDOM RUN:** As per the directives from government of India and ministry of youth affairs and sports to organize fit India freedom run for students and faculty between 15<sup>th</sup> august 2020 to 2<sup>nd</sup> October 2020. RCOEM"s department of physical education has organized RCOEM Fit India Freedom Run for "RAMIANS" from 30<sup>th</sup> September to 2<sup>nd</sup> October 2020.

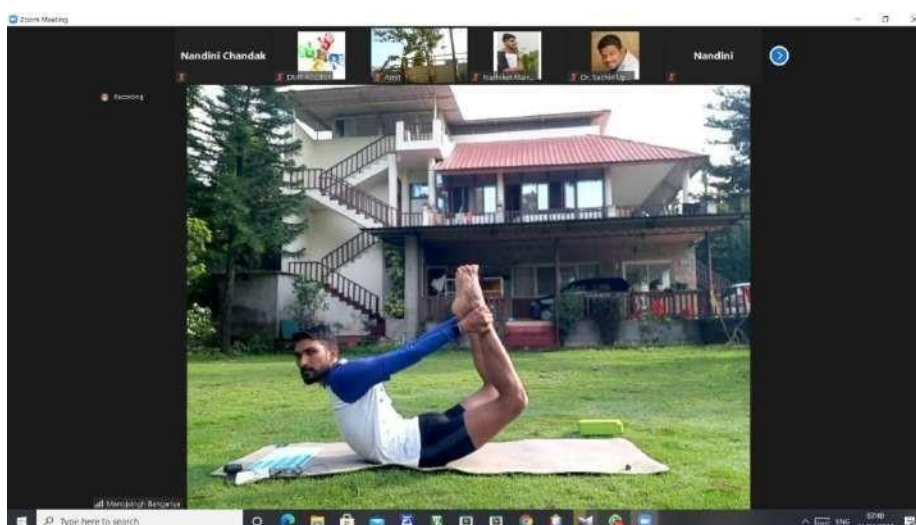


- **फिटनेस का डोज़ - आधा घंटा रोज़** UNDER THE AEGIS OF FIT INDIA MOVEMENT (Department of Sports, Ministry of Youth Affairs and Sports) :  
Based on the call of our honorable PM

Mr.Modi, fit India advocating the message “ **फिटनेसकाडोज़ - आधाघटारोज़** ” campaign in December 2020. Under this initiative physical education department of RCOEM has conducted activities in December 2020 to promote fitness amongst faculty, staff and students.

### INTERNATIONAL YOG DAY: 18-21 JUNE 2021

On the Occasion of 7<sup>th</sup> **International Yog Day**. An Online four day Exclusive yoga session organized by the Department of Physical Education,RCOEM. As we all know, health is the greatest wealth. So our intention of this program was to spread awareness about the importance of Yoga. Exclusively yoga sessions was organised from **18th June to 21st of June, every day from 7am to 8am**, Under the guidance of **Shri Manoj Singh Bharat Singh Bangariya, he is currently working at Vana- A wellness retreat,Dehradun,Uttarakhand as a Yoga therapist and instructor. He is a certified Yoga teacher of Patanjali.**



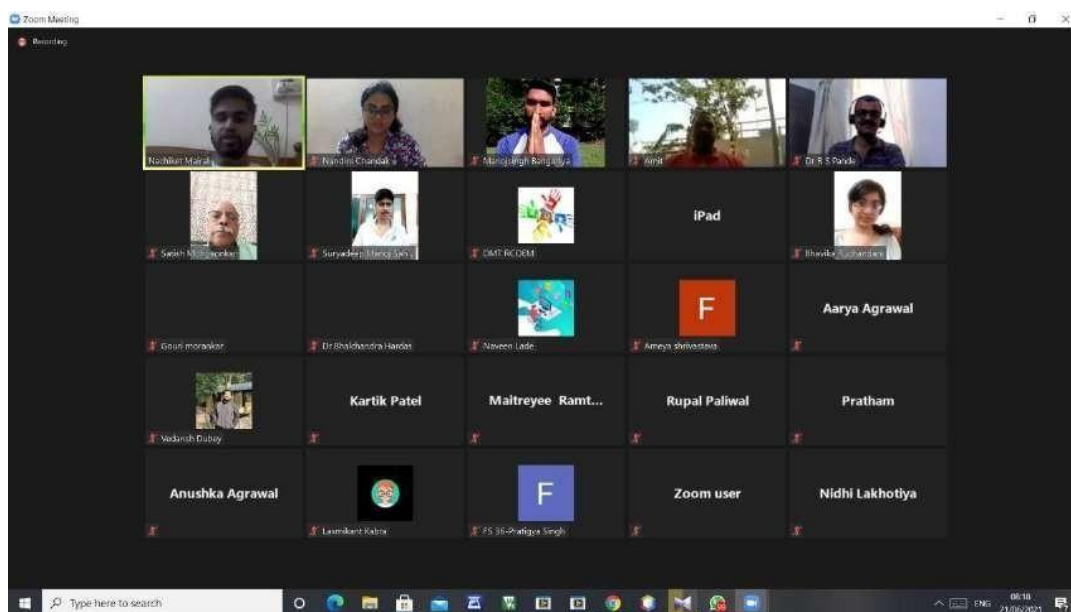
#### **Schedule for the same was:**

**18th June - 7am - 8am - Role and importance of Yoga during and post covid period.** **19th June - 7am - 8am - Yoga for stress management and concept of healthmanagement instead of only weight management.**

**20th June - 7am - 8am - Session on yogic diet and yoga for immunity boosting and preventing corona.**

**21th June - 7am - 8am - Daily routine yoga for overall health.**

Large no of Students, Faculty and Staff participated in this event. Our General Secretary Hon<sup>ble</sup> Shri Govindlalji Agarwal shared his experience about Yoga and Importance of Disciplined and Spiritual Life for Success and Principal Dr. Rajesh Pande also motivated to students on this occasion.




---

## NATIONAL SERVICE SCHEME (NSS)

---

**Road Safety Awareness Campaign:** This year, „National Road Safety Month“ was observed from 18th January to 17th February by GOI with the theme on „SADAK SURAKSHA-JEEWAN RAKSHA“. Talking about transportation, as vehicles are integrated with society, they can be dangerous if not used following proper road safety rules. So, to acquaint and remind the younger minds about Road Safety, a webinar (digital platform: ZOOM meeting app) was conducted by NSS Unit, RCOEM on 16<sup>th</sup> February 2021. The event commenced at 04:00 PM and a total of 82 active participants were present in meet. The Chief Guest and speaker for the event was Dr. Ashok Bagul, Senior Police Inspector In charge, Cyber Police.

Later, Conducted a Road Safety Awareness campaign, a total of 28 NSS Volunteers gathered at three different buzzing traffic signals - LIC square, Zingabai Takli square and Katol Road square. They showcased printed as well as handmade posters with catchy slogans based upon traffic regulations and safety mindfulness on pedestrian crossings as red signals flashed. During all these times, NSS Unit followed social distancing rules, and all the precautions to prevent the spread of COVID-19 were taken.

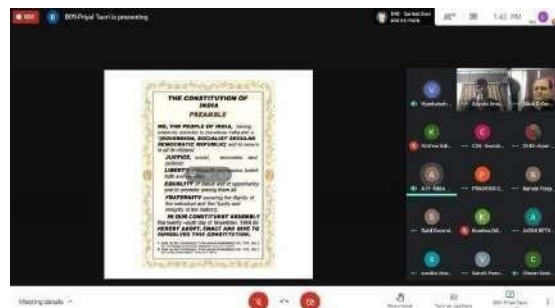
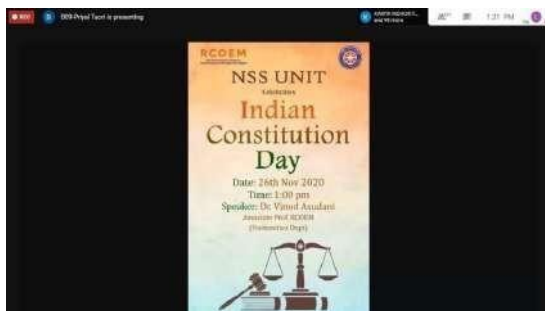


**Tree plantation** was organized to commemorate the occasion of World Environment Day 5<sup>th</sup> June, where all volunteers planted trees at their homes. This ensured we follow the tradition of plantation drive in the safest way possible.

„**Ganesh Visarjan**“, we requested people to immerse the idol at their homes themselves. The actual demonstration was also spread through a video. This resulted in following social distancing norms without compromising the spirit of the festival.

### CONSTITUTION DAY CELEBRATION: 26<sup>TH</sup> NOVEMBER 2020

**Constitution Day** (or **Samvidhan Divas**), also known as **National Law Day**, is celebrated in India on 26<sup>th</sup> November every year to commemorate the adoption of the Constitution of India. College not being open for students in physical mode, the celebration was acknowledged in online mode using common digital platform (Google Meet). The Chief Guest for the Day was Dr.V.H. Asudani. A presence of more than 108 students was observed during the session.



### NATIONAL UNITY DAY: 31/10/2020

**National Unity Day** is celebrated on October 31 across the country to commemorate the birth anniversary of Sardar Vallabhbhai Patel, and to recognise the contributions of the first Union Home Minister, who laid the firm foundations of the Indian police and gave it its identity, character and direction. The event was conducted in online mode on common digital platform (Google Meet). Presence of 81 attendees was observed during the session.

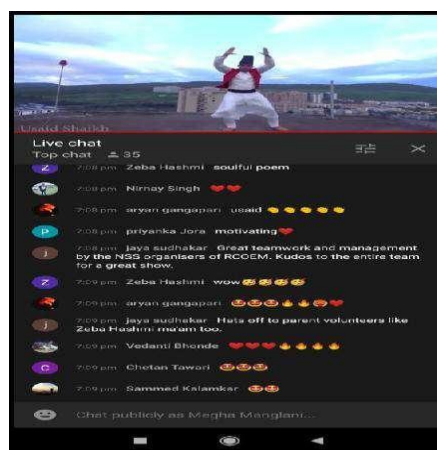
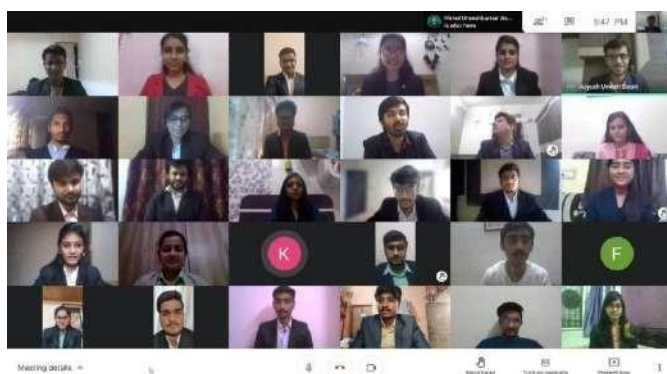
### NATIONAL YOUTH DAY DATE: 12/01/2021

National Youth Day is celebrated in India on 12 January to honour the birth anniversary of Swami Vivekananda. The philosophy of Swamiji and the ideals for which he lived and worked were a great source of inspiration for the Indian Youth. On this auspicious day, R.T.M.N.U organised a virtual meet to celebrate National Youth Day in the presence of Mayor Shri Dayashankarji Tiwari and Shri SarangGadkari, Managing Director, Manas Group of Industries. A total of 151 NSS volunteers were observed to be present during the session

### PRERNA (WEEKLONG SOCIO-CULTURAL MEGA EVENT)

PRERNA is a socio-cultural event held annually under NSS Unit, RCOEM. It is an event that aims to spread social awareness among technical students.

The inauguration ceremony of PRERNA 13.0 took place online in the presence of the esteemed guests Honourable. General Secretary Shri Govindlalji Agarwal, Principal, Dr. R.S. Pande, and NSS Programme Office, Dr. Amit Anurag. A short video was played which displayed the work done by NSS volunteers in the session 2020-21. Following this, a brief description of events taking place under PRERNA 13.0 was done and the website presented in front of our revered guests. Events Covered: JUNNON, PRAYAS, REFELCTION, SPEAK-STREAK, TWO WEBINAR, CHAKRAYUH AND OPEN MIC.

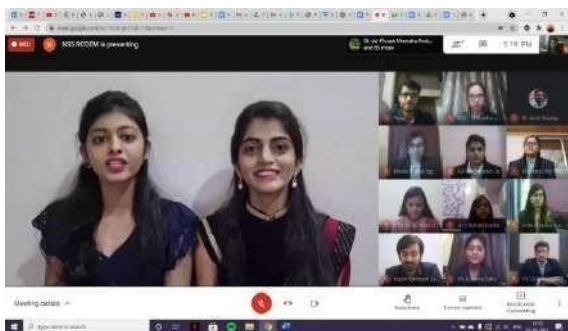
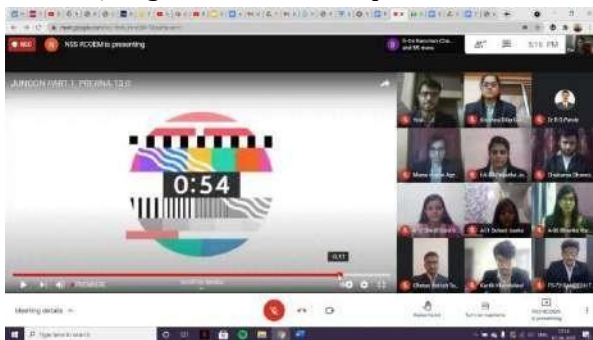


## JUNOON DATE: 2ND-3RD APRIL 2020 PLATFORM: YOUTUBE:

To bring hope and enthusiasm to the lives of people amidst the pandemic the NSS Unit, RCOEM created a platform for specially-abled students to showcase their talents. We decided to connect various schools not limited to Nagpur but the whole of India through an event, JUNOON under PRERNA

13.0. **JUNOON** premiered on YouTube on 7th and 8th April at 5:30 PM. A total of 110 students from 12 schools as well as 75 students who were contacted with the help of their parents participated. This also included two international entries: one from Dubai and another from South Africa.

The YouTube video had a viewership of more than 2.9K. The event became more graceful with the presence of the guests Honourable. General Secretary Shri Govindlalji Agarwal and Principal, Dr. R.S. Pande sir.



## WEBINAR:

**Two different webinar were conducted:**

1. Webinar was organized by NSS Unit, RCOEM under PRERNA 13.0 on 8th April 2021. The event commenced at 04:30 pm and a total of 86 participants attended it. The chief guest for the event was Dr.YogeshMurkute, Geologist at RTMNU Nagpur. The topic for the webinar was the **Ancient Traditional Water Management System in India**



2. The NSS Unit organized a WEBINAR on 1% formula for success under PRERNA 13.0 on 9th April 2021 at 4:30 P.M. Around 96 students were present for this event. The speaker of this webinar was Dr.SunitaDhote, Assistant Professor in the Department of Management Technology at Shri Ramdeobaba College of Engineering and Management.

**OPEN MIC DATE: 10/04/2021 PLATFORM: GOOGLE MEET &YOUTUBE PREMIERE**

NSS Unit, RCOEM, pioneered an „Open Mic“ under PRERNA 13.0. Open Mic gave a platform to students to share their talents thereby encouraging and keeping them motivated in this pandemic. This served as a great opportunity for students to get away from their lethargic schedules and embrace their talents to get into the limelight in their new institution. Several genres like vocals, instrumental, stand-up comedy, beat boxing, poetry, Shayari, storytelling, rap, and mimicry were up for grabs for participants to show their creativity. Post a launch on Google Meet at 5 PM, the event was premiered on YouTube at 5:30 PM with the videos of all the best performances of the participants compiled together. NSS Unit was fortunate to have special guests, Dr. Mona Tidke, a professional flutist as a performer of the evening along with Dr. Y. M. Sonkhaskar (Dean SRC), Prof H. D. Bhave (Music Club Incharge), and Dr. Amit Anurag (NSS program officer). Due to the participants“ enthusiasm and spirit to showcase their knack for creativity, the event was greatly appreciated and successful with around 2000+ views onYouTube within an hour.

RCOEM celebrates our 74th Independence Day with utmost fervor, zest and a spirit of patriotism at RCOEM CAMPUS keeping

all the safety and social distance norms as well as on online mode (YouTube live link

[www.youtube.com/watch?v=IUrxlwgLKTO](https://www.youtube.com/watch?v=IUrxlwgLKTO)

) for faculties, staff and students.



### RCOEM CELEBRATES 74<sup>TH</sup> INDEPENDENCE DAY

guests, faculty members, and staff. The national flag, which is the symbol of nation's pride was hoisted by the Chief Guest Shri. Chandrakantbhai Thakar Vice-Chairman of SRSS and all in unison sang the National Anthem and expressed the joy of our freedom in the presence of respected committee member Shri Dinesh Agrawal and Principal Dr. Rajesh Pande along with the other faculties & staff of the college.

Various online acts were prepared by RCOEM NSS UNIT, SRC, Music Club, Dance



Club And literary club which were showcased online after the chief guest address, their performance give tribute to corona warrior and also awakens everyone's feelings towards the motherland.

The program concluded with the vote of thanks by Dr. Amit Anurag OD physical education.

## REPUBLIC DAY



26th January is celebrated as Republic day every year with great patriotism and zeal. Shri Ramdeobaba College of Engineering and Management and NSS unit left no stone unturned for celebration of Republic day despite the pandemic. The whole celebration was streamed live on youtube for teachers and students watching from home.

Republic day celebration started with national anthem which was followed by hoisting a flag by our chief guest Hon. Gen. Secretary Shri Govindlalji Agrawal, in presence of other college committee members Honourable Secretary Shri Kailashchandraji

Agrawal, Executive member Shri Dineshji Agrawal, our principle Dr. R.S. Pande sir, Deans, Head of Departments, teachers, staff and students. The event's anchoring was done by NSS volunteers, Bhavika Ruchandani (NSS Joint Secretary) and Chaitanya Sudan (NSS Event manager).



This year, the theme was YOUTH, which depicts the young crowd of India responsible for bringing a change in the coming future, the most important human resource we have at present. The fight then was for freedom, today it's from infectious disease,



and we pay tribute to all the corona warriors and specially scientists and medicine industry who have provided us with a precious gift of vaccine not only to India but also to other countries. Chief guest Shri Govindlalji Agrawal then addressed the crowd and inspired them about their duties and responsibilities towards our country. The whole event was concluded with a vote of thanks given by Mr. NayanKarwa, NSS Secretary. Lastly all the guests went to the conference room to watch the performances based on the theme prepared by college students of NSS unit, literary club, dance club, music club and drama club which overwhelmed everyone with pride of being Indian. The whole event was conducted by following the government norms by wearing masks and keeping social distance.



## **RAMDEOBABA COLLEGE ENGINEERS FOR ENVIRONMENT FORUM**

### **(REEF)**

#### **OBJECTIVES OF REEF**

- To create awareness and take up various activities for the conservation of various aspects of environment.
- To establish active association with various organizations working for environmental conservation.
- To take up various activities for students and in the process initiate and inculcate the value of environmental conservation.

- To encourage the development and execution of ideas on role of technology for protection of environment.

Events Organized:

Social Media Awareness

Today, Social media is the most powerful mean to share a message. Through various social media handles such as Instagram, Facebook, LinkedIn, WhatsApp REEF shares various awareness about Nature and Environment. Various awareness posters and flyers are also made for social media handles.

Poster of EARTH DAY 2021, shared on social media handles.



## BIRD-WATCHING / NATURE TRAIL

It is one of the favourite hobbies of nature lovers. REEF members take out time to follow this activity. Most visited spots are Gorewada jungle, Gorewada dam site, ambazari jungle, etc.

With the guidance of experienced bird-watchers, our team is learning the art of identifying birds, and observing their behavior. This activity requires lots of patience.

Usually, weekend mornings or evenings are chosen for bird-watching, as the activity is peak at these times. Common birds, such as Cattle Egret, Green Bee Eaters are spotted easily throughout the year. Some migratory birds, such as Red Crested Pochards, Northern Pintails, Bar Headed Geese, can be spotted in and around the water bodies during winters



### ELOCUTION COMPETITION

Looking towards lockdown activities, REEF organised elocution competition. Any topic related to environment is so wide, this time REEF gave the freedom to all the orators regarding selection of the topic. Many topics were orated by the participants.

### GUEST LECTURE ON CARBON FOOTPRINT

A CEO of SEE TECH Solutions, Mr. Milind Chittawar was invited to deliver a lecture on “Reducing Carbon Footprints”, organized on 5<sup>th</sup> June 2021.

He delivered many aspects related to carbon footprints and also how can we reduce it by our actions. Gave us the information about climate change movement.

BIRD FEEDERS ACTIVITY BY NEW MEMBERS

---



## Bird-watching Activities





## Tide Turners Plastic Challenge

### INSTITUTE RECEIVED BEST PERFORMING ECO-CLUB 2021 AWARD

---

The Tide Turners Plastic Challenge engages with youth from over 28 countries in Asia, Africa and the Caribbean region. During the third consecutive year of the challenge in India, over **1.57 lakh+ Young plastic warriors, 1000+ Eco-clubs and 3500+ Educational institutions** inspired us with their commitment to address the most pressing environmental concern of Single-use plastics and their impact on the planet.

**The Tide Turners Plastic Challenge was an online challenge jointly organized by United Nation Education Program (UNEP), World Wildlife Fund (WWF), Centre for Environment Education , (CEE), Ministry of Environment and Forest MOEF** for education institutions all over India . By joining the challenge the students become a part of young leaders who are changing the world by adapting to measures to reduce plastic pollution. This challenge is a global youth movement to fight plastic pollution around the world. It was designed to inspire youth to reflect upon their plastic consumption and lead change in their homes, communities and institutions.

The Challenge was conducted in three levels. The participating teams comprising of and mentor faculty of the **Eco-Club Dr Swaroop Laxmi Mudliar and 10 students lead by team leader Vihang Pathak** to showcase their awareness towards plastic pollution. They completed all the levels successfully. For each of the levels the students qualified they would be awarded with Badges and certificates awarded which will be endorsed by UNEP. The announcement of the best Eco-club was made in the national youth summit held on 15th July 2021.

The summit was graced by the presence of some of the most inspiring youth and dignitaries including **Dr. Sonam Wangchuk (wellknown education reformist), Benny Dayal (prominent Indian playback singer), Malhar Kalambe (Youth Advocate), Shashank Bhonsle (Leading with Individual Action) and UNEP's Goodwill Ambassador Dia Mirza.**

## **Alumni Meet organized by Department of Information Technology on 9th January 2021**

An online alumni meet of 15 graduated batches of the department was conducted on 9<sup>th</sup> January 2021. The event was presided by Dr. Rajesh Pande, Principal of the college. Dr. K. N. Agrawal, Director of Ramdeobaba Alumni Connect association was also present on the occasion. 292 Alumni registered for the event, of which 225 attended the meeting. Keeping in mind the social distancing factor, 14 alumni were invited to attend the meeting offline.



In his opening remarks, Dr. D. S. Adane, Head of the department, gave a brief progress report of the department since the first batch graduated in 2005. He also appealed to all the alumni to stay connected with the department and college alumni association and contribute, in whatever manner they can, in shaping the career of the juniors.

To mark the occasion, a memento was presented, which, on behalf of all the alumni, was received by Ms. Poonam Battulwar (2006 Batch), Vice President, J. P. Morgan, Mumbai



An Alumni brochure, containing information of 292 alumni, was released on this occasion at the hands of the dignitaries present.

In his presidential address, Dr. Rajesh Pande, appreciated the efforts of the department in conducting, one of its kind, alumni meet and uniting graduates of 15 batches to their alma mater. He emphasized on the role of alumni in helping the college to achieve greater heights.



The highlight of the meet was the “Alumni Speak” section which was live interaction of the alumni from across the globe. The alumni pour out their hearts and shared their memorable moments in the college. They also emphasized the importance of learning the core concepts and appealed to all juniors to make most of their college life. Few alumni, present on the occasion, also shared their experiences.



To make the alumni revisit their college life, a fun activity was organized by II year and III year students. The alumni participated in the event whole heartedly and thanked the juniors for their efforts.

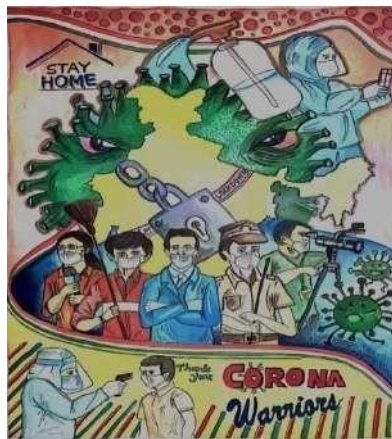
## NATIONAL SERVICE SCHEME (NSS)

### ACTIVITIES DURING PANDEMIC:

Coronavirus pandemic has influenced everyone's life around us. This includes changes in several ways, but most importantly humans needed support from each other. NSS Unit of RCOEM had begun their contribution to the pandemic with:

**PM Care Fund:** Mass donation in PM Cares fund from our NSS Volunteers with a total donation amount of ₹20,000.

**An Artwork Competition** was conducted on the occasion of Independence Day 2020 to salute the frontline workers, doctors, NGOs, and various other individuals and organizations for their support to control the pandemic. When everyone is at home, the competition was held digitally for the students to indulge in artwork, a great way of expressing things. This made sure that people are always motivated during the hard times. A total of 03 prizes from 21 entries were declared as Follows:



PLASMA DONATION AND BLOOD DONATION DRIVE: DATE: 24<sup>TH</sup> SEPT 2020  
(NSS FOUNDATION DAY):

The foundation day of NSS was celebrated with great enthusiasm even in this pandemic period. A special virtual program was organized by the NSS unit of RCOEM in presence of Mr Ashok ji Patki, head secretary, Dr. Hedgewar blood bank. The plasma donation camp with the guest of honor, Mr. Ashok ji was held on an informative and knowledgeable verge. The importance of this donation was effortlessly described by our distinguished guest who would help us in our unforeseeable future to fight the COVID 19 virus. The eligibility criteria and other minor details were provided to us by him and also are described in the poster made by NSS unit. The main objective of this program was to create awareness and appeal students and faculty members to give a hand in this beautiful initiative by NSS unit.



Again in the month of May, NSS Unit got in communication with Shri Ashokji Patki, Secretary of Dr. Hedgewar Blood Bank, Nagpur on 2nd May. Being in continuous touch with him, a Google meet was conducted on 5th May regarding blood and plasma donation.

An awareness was spread about the importance of blood and plasma donation for days, i.e. from **6<sup>th</sup> May to 15<sup>th</sup> May**, through various social media platforms like whatsapp and Instagram, so as to target the youth and motivate them for this noble cause. The volunteers also reached out to friends and families on an individual level. In addition to this, from the contacts at the time of Prerna 13.0, the volunteers also connected with students of other colleges. A pdf was made containing all the FAQs related to the donation drive, in English and Hindi languages so as to reach maximum people.



**REASON 1**

The antibodies present in plasma, transferred from a recovered coronavirus patient, might help to generate a faster immune response in covid patients.

**REASON 2**

On an average 30% people are eligible to donate plasma. So if you are eligible you must donate. Your small donation can save atleast 1 or 2 lives.

**REASON 3**

Because your country is going through a tough situation & needs your help. If you can contribute by just donating the plasma, you must do it.

**Shri Ramdeobaba College of Engineering and Management, Nagpur - 440013**  
NSS UNIT

◆ Who can donate Plasma?  
◆ प्लाज्मा दान कौन कर सकता है?

- The donor should've been infected with COVID-19 in the last 3-4 months.  
दाता को पिछले 3-4 महीनों के भीतर Covid-19 इन्फेक्शन हुआ हो।
- A person can donate plasma after 14 days of 100% recovery from Covid-19  
Covid-19 से पूरी तरह ठीक होने के 14 दिनों के बाद दाता प्लाज्मा दान कर सकते हैं।
- The donor should have with him a positive report of the RT-PCR test.  
दाता के पास RT-PCR टेस्ट पॉजिटिव आने की रिपोर्ट होनी चाहिए।
- The age of the donor must be between 18 to 60 years.  
दाता की आयु 18 से 60 वर्ष के बीच होनी चाहिए।
- All males and females (who have not conceived a child) can donate plasma.  
पुरुष दाता और महिला दाता जो कभी गर्भवती न हुई हो प्लाज्मा दान कर सकते हैं।
- The weight of the donor should be more than 50 kg.  
दाता का वजन 50 किलो से अधिक होना चाहिए।

- Donors should have a normal pulse, blood pressure, and temperature.  
दाता की पल्स, रक्तचाप और तापमान सामान्य होना चाहिए।
- The hemoglobin value should be more than 12.5 gm/dl.  
हीमोग्लोबिन 12.5 ग्राम / डीएल से अधिक होना चाहिए।
- The platelet count should be greater than 1.50 Lakhs.  
प्लेटलेट काउंट 1.50 लाख से अधिक होना चाहिए।
- Serum Protein should be more than 6 gram%.  
सीरम प्रोटीन 6 ग्राम% से अधिक होना चाहिए।
- The donor should have enough SARS-CoV2 antibodies in their body.  
दाता के शरीर में पर्याप्त मात्रा में SARS-CoV-2 की एंटीबॉडीज होनी चाहिए।

NOTE: Different machine models show the antibody count on a different scale. So, please ensure to collect a computer-generated report of your antibody count rather than solely relying on verbal advice. Once you acquire your report, then it must be cross verified to ensure eligibility.  
नोट: विभिन्न मशीन मॉडल, अपने अलग पैमाने पर एंटीबॉडी गिनती दिखाते हैं। इसलिए, केवल मौखिक सलाह पर निर्भर रहने के बजाय अपनी एंटीबॉडी गणना की एक कंप्यूटर-जनरेटेड रिपोर्ट एकत्र करना सुनिश्चित करें। एक बार जब आप अपनी रिपोर्ट प्राप्त कर लेते हैं, तो उसकी वास्तविकता सुनिश्चित करने के लिए सत्यापित किया जाना चाहिए।

NSS UNIT, RCOEM

The hard work and unity of the volunteers in this awareness drive influenced more than **40,000** people, out of which **200+** folks came forward and contacted the team for Blood and Plasma donation. A list was made containing the names of people eligible for plasma donation. As most of the people were not eligible for donating plasma, they were motivated by the volunteers to donate blood instead. This resulted in **14 registrations for plasma donation** out of which **5 people** passed antibody tests and donated plasma and **85 people donated blood** at Dr. Hedgewar Blood Bank, Nagpur. All precautionary measures were taken into consideration, amid covid19 situation and a healthy and safe environment was provided to the donors.

**RCOEM**  
Shri Ramdeobaba College of  
Engineering and Management, Nagpur

**NSS Unit**  
In association with  
Dr. Hedgewar Blood Bank, Nagpur

**BLOOD DONATION AND PLASMA  
DONATION DRIVE**

**WHO'S ELIGIBLE ?**

**Covid-19  
Convalescent  
Plasma Donor**

- Age : > 18 Years
- Weight : > above 55 Kg
- Sex : Male, Nulliparus Females
- Donation Frequency : Every 15 days upto 4 months
- Total Protein : > 6 gm/dl
- SARS-CoV-2 IgG Antibody Test
- Symptom : 28 days Asymptomatic (Post Discharges /Home Quarantine) or 14 days Asymptomatic Period with 1 PCR Negative

**Blood Donor**

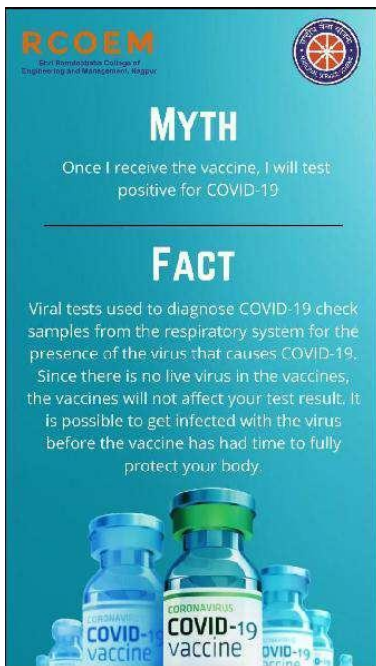
- Age : > 18 Years
- Weight : > above 50 Kg
- Sex : Male, Females
- Health : good health, should meet minimum haemoglobin level required

**SAVING LIVES :  
IT'S IN OUR BLOOD**

**Blanket Donation:** On Republic day 2021, the unit donated 114 blankets to the needy people.



## VACCINATION AWARENESS DRIVE:



An awareness drive regarding **vaccination** was conducted through

social media platforms like Instagram and WhatsApp.

Various posters were made in both Hindi and English languages, depicting the common myths and facts about vaccination and its importance for good health. These reached more than 1000 people and were reshared by 75 folks.

In addition to this, few of the NSS volunteers carried out blood donation drives by providing mobile vans in areas with more than 10 donors. Few of the locations were Gandhibagh, TaaranTaranDigamber Jain Mandir, etc. This resulted in the collection of **more than 50 units** of blood.

### Contribution of Volunteers:

The NSS volunteers of Shri Ramdeobaba College of Engineering and Management also gave their contribution to the society on an individual level. The data given below shows the collective contribution of the volunteers in various fields:

Sr. No.	Type Of Contribution	No. Of Volunteers	No. of People benefited
---------	----------------------	-------------------	-------------------------

1.	Food Distribution	21	1400+
2.	Mask Distribution	8	1300+
3.	Sanitizer Distribution	5	270+
4.	Clothes Distribution	8	350+
5.	Grocery Distribution	8	500+
6.	Others (Medical, Financial, Daily needs, etc)	4	150+



## Services Extended to Police Department

**RCOEM**  
Shri Ramdeobaba College of Engineering and Management, Nagpur



- Our students as:
  - ✓ Police Mitra
  - ✓ Cyber Prahari
- A morale boosting cup of tea

## Services Extended to Health & Medical Services

**RCOEM**  
Shri Ramdeobaba College of Engineering and Management, Nagpur

- ✓ AI to detect CoVid-19

- 3-D printed ventilator splitter

**The Hitavada**  
Nagpur City Line | 2020-06-22 | Page-3

### Engg student claims COVID-19 can be detected by AI software

**Principal Correspondent**

VEDANT Khairnar, Coder and student of Shri Ramdeobaba College of Engineering and Management (RCOEM), came forward in the fight of the nation with COVID-19 by customising a software, which can be used to detect the COVID positive patients. The software is used through the chest X-rays of covid patients, which are made available online by open sources. The dataset of X-ray images is from Kaggle.com, which is open source and publicly available. The COVID-19 patient's chest X-ray is different from normal and healthy person's chest X-ray. This principle is used to differentiate the two persons as COVID positive and NORMAL. The job of differentiating these two can be done by the software program called as classifier program. Initially the computer software is trained by giving it a set of large number of chest X-ray images of covid patients. Once it is trained, the X-ray images which are new are fed into the software and machine starts to give the output. This gives the result of whether the patient is COVID positive or normal within a second. This way the time and cost of detecting COVID-positive can be saved considerably. Through the model in a working way, it needs to be tested for more similar dataset samples for one geographical location, so as to apply in actual implementation. Informed Vedant.

The idea of developing this program is given by his father, Dr. Khairnar who is professor at Government College of Engineering, Nagpur. Vedant was working on this project. It is a new, ongoing project of long infections classifier software and thought COVID is a type of long infections and food

him that the program on which he is working can do what he said, and result is in front of everybody," said Dr. Khairnar. "We have written to different medical authorities about our findings and requested them to provide X-ray images of COVID patients and our own test them on our model for making the final to bring it to real use. Our first trial is over, it can then be used by government medical team for COVID detection. We are expecting reply from them so that this can be put in actual practice. The accuracy of the application claimed to be 92%. This we want to do as a part of social service, we are going to make it 'Open source', 'sharity'," said Vedant Khairnar.

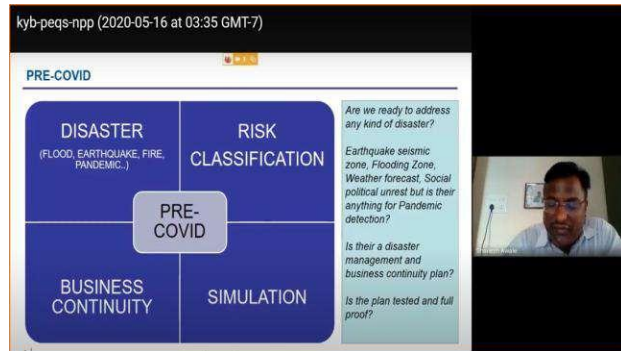
**BOTTOMLINE**

**VEDANT Khairnar, Coder and student of CSE Dept. RCOEM, came forward in the fight of the nation with COVID-19 by customising a software, which can be used to detect the COVID positive patients.**



## Services Extended to SMEs

**RCOEM**  
Shri Ramdeo Baba College of  
Engineering and Management, Nagpur

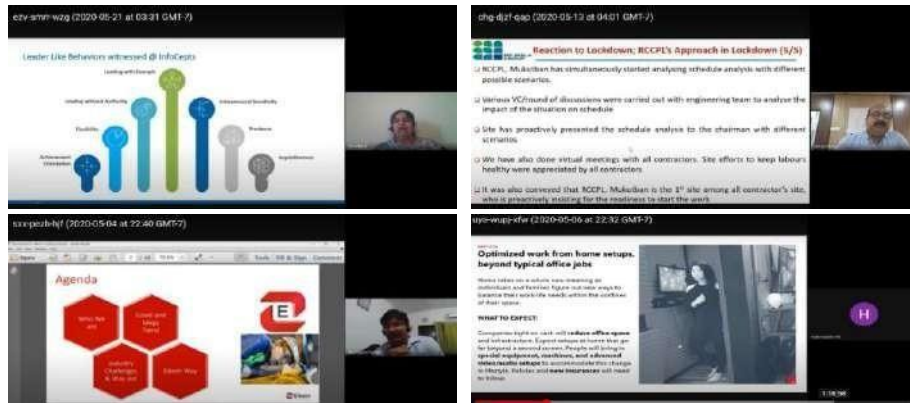


- ✓ Product Development Support
- ☐ Ergonomically Designed Masks

- ✓ Employee Engagements
- ☐ Training Programmes: 05

## Services Extended to SMEs

### ✓ Webinars and Virtual trainings



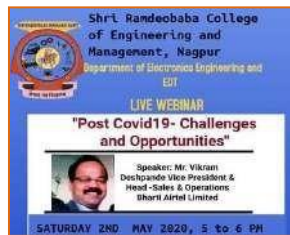
## Services Extended to Budding Entrepreneurs

### ✓ Support for technology development



## Services Extended to Budding Entrepreneurs

- ✓ Sensitization regarding emerging business opportunities due to the CoVid Pandemic
- ✓ Webinars
- ✓ Idea-thon - 122 Ideas Received



**RCOEM**  
Shri Ramdeboba College of Engineering and Management, Nagpur

**PRESENTS**  
**RCOEM - IDEATHON**  
Innovation, Design & Ideation Competition

Medical Solutions, Protection Solutions, Software Solutions, Smart City Solutions, AgriTech Solutions, IoT, Drone & Robotics Solutions  
Others not covering above...

**Who can participate?**  
The competition is open to Students/Faculties/ Professionals/Others

**Important Dates**  
Idea Submission from 10th July 2020 to 20th July 2020  
Online Idea Presentation 24th and 25th July 2020

**EXCITING AWARDS & PRIZES:**

- Top 20 ideas to be selected for incubation by RCOEM TBI Foundation with Mentoring and Funding support of Rs. 5 Lakhs\*
- Direct Entry to Workshops organized by RCOEM TBI
- Six best ideas will be selected for Cash Prize of Rs. 10000 each and certificate of merit

PLEASE SUBMIT YOUR IDEAS/SOLUTIONS THROUGH  
<https://forms.gle/BPwLWSKPBfILrCLt5>

For queries Anubhav Pachauri - 9210953471 | Ayush Agrawal - 9595104171

## Services Extended to Nagpur Municipal Corporation



- ✓ 1785 Ration Kits
- ✓ 450 Safety Kits



## रामदेवबाबा अभियांत्रिकीचे अभिनव सेवाकार्य

✦ **नागपूर, ६ एप्रिल**  
रामदेवबाबा अभियांत्रिकी आणि प्रबंधन महाविद्यालयाच्या शिक्षक कर्मचाऱ्यांच्या सहकार्याने सध्याची कोरोना विषाणू बाधकतेच्या निमित्ताने महाराष्ट्र शासनाने संपूर्ण महाराष्ट्रात तिकिट्यांचा वितरण कार्यक्रम सुरू केला आहे. यात महाराष्ट्र शासनाने संपूर्ण महाराष्ट्रात तिकिट्यांचा वितरण कार्यक्रम सुरू केला आहे. यात महाराष्ट्र शासनाने संपूर्ण महाराष्ट्रात तिकिट्यांचा वितरण कार्यक्रम सुरू केला आहे.

या सेवाकार्याचे प्रेरणादायी कार्ये अनेक महाराष्ट्रातील प्रेरित अनेक कार्ये सुरू केले आहेत. यात महाराष्ट्र शासनाने संपूर्ण महाराष्ट्रात तिकिट्यांचा वितरण कार्यक्रम सुरू केला आहे. यात महाराष्ट्र शासनाने संपूर्ण महाराष्ट्रात तिकिट्यांचा वितरण कार्यक्रम सुरू केला आहे.

महाराष्ट्र शासनाने संपूर्ण महाराष्ट्रात तिकिट्यांचा वितरण कार्यक्रम सुरू केला आहे. यात महाराष्ट्र शासनाने संपूर्ण महाराष्ट्रात तिकिट्यांचा वितरण कार्यक्रम सुरू केला आहे.

महाराष्ट्र शासनाने संपूर्ण महाराष्ट्रात तिकिट्यांचा वितरण कार्यक्रम सुरू केला आहे. यात महाराष्ट्र शासनाने संपूर्ण महाराष्ट्रात तिकिट्यांचा वितरण कार्यक्रम सुरू केला आहे.

महाराष्ट्र शासनाने संपूर्ण महाराष्ट्रात तिकिट्यांचा वितरण कार्यक्रम सुरू केला आहे. यात महाराष्ट्र शासनाने संपूर्ण महाराष्ट्रात तिकिट्यांचा वितरण कार्यक्रम सुरू केला आहे.

महाराष्ट्र शासनाने संपूर्ण महाराष्ट्रात तिकिट्यांचा वितरण कार्यक्रम सुरू केला आहे. यात महाराष्ट्र शासनाने संपूर्ण महाराष्ट्रात तिकिट्यांचा वितरण कार्यक्रम सुरू केला आहे.

## Services Extended to

- ✓ Volunteered for Quarantine Facility
- ✓ Provided the Boys and Girls Hostel along with all support services



## Services Extended to Nagpur Police Department



- ✓ 800 PPE Kits



## Help to Migrants

- **RCOEM TEACHERS**
- ✓ 1000 Ration Kits

**रामदेवबाबा अभियांत्रिकीचे अभिनव सेवाकार्य**

अभियांत्रिकीचे शिक्षण देणाऱ्या एकाच वेळी शिक्षकांचे जीवनही सुट्टी ठरवण्यात येऊन अनेक शिक्षकांच्या कुटुंबातही अन्नधान्याची समस्या निर्माण होऊ शकते. यासाठी रामदेवबाबा अभियांत्रिकी आणि प्रबंधन महाविद्यालयाच्या शिक्षक कल्याण मंडळाने अन्नधान्याची 1000 रेशन किट्स तयार करून देण्याचा प्रयत्न केला आहे. यासाठी 1000 रेशन किट्स तयार करण्यात आल्या. यासाठी शिक्षकांच्या कुटुंबातही अन्नधान्याची समस्या निर्माण होऊ शकते. यासाठी रामदेवबाबा अभियांत्रिकी आणि प्रबंधन महाविद्यालयाच्या शिक्षक कल्याण मंडळाने अन्नधान्याची 1000 रेशन किट्स तयार करून देण्याचा प्रयत्न केला आहे.



## HELP TO MIGRANTS

- **BY FACULTY MEMBERS IN THEIR PERSONAL CAPACITY:**
- ✓ Ration Kits





- BY VOLUNTEERING WITH NGOS

RSS Seva Samiti

- ✓ Provision of Food



**Financial Contribution provided  
towards relief fund**

Sr. No.	Particulars	Amount
1	College contribution to PM Cares	11,23,157.00
2	College contribution to CM Relief Fund	5,00,000.00
3	Teacher's Welfare Association	5,60,000.00
4	NSS Student Volunteers	26,000.00
5	Contribution of faculty members in their personal capacity to various Govt./Non-Govt. agencies	23,100.00
6	Contribution by students in PM Cares	7,302.00

---

**We join India in the fight  
against COVID-19**

**And the fight goes on...**



## RCOEM TBI FOUNDATION

---

### ACTIVITIES CARRIED OUT

- 1) Open elective Innovation & Entrepreneurship for IV Sem Students (Dr. Rupesh Pias)
- 2) First year Induction Program Guidance from Mr. Ajay Agrawal and Mr. Vikram Labhe
- 3) ARIIA Rankings Proposal Submission
- 4) MSME ASPIRE Fund utilization ( Purchased Fluke Make Multifunction Calibrator Model 5502A Cost Approx 30 Lakhs , Submitted and Faced Review by Ministry and IIM Lucknow
- 5) 06- IPR awareness Seminars for students/faculties organized.
- 6) Technology Development & Transfer Initiatives
  - a) Swanand Go Vigyan Anusandhan Kendra ( SGVAK) Value : 3.6 lakhs MOU+ Product Design
  - b) Oxygen Concentrator [ SiS Logic Nagpur ]
  - c) Portable Chest CT Scan Machine ( Dr. Uday Sheroy)
  - d) 24X7 , Green, low cost power generation ( DICCI Nagpur Chapter ) Feasibility study is going on
- 7) ACIC Proposal Presentation on 11/06/2021
- 8) TBI Internship: 05 students ( 04 Startup)
- 9) Provided seed funding support

**RCOEM TBI Foundation Startup Funding Approval (FY 2020-21)****Approved in BOD Meeting Dated 29th December 2020**

Sr.No	Name of the start up	Startup Details	Funding Provision	Disburshment	
				Phase 1	Phase 2
1	Happico	Manufacturer of Dark Belgian Chocolate	5 Lakhs	3 Lakhs	2 Lakhs
2	Alentar Electric	Custom built or retrofit futuristic Electric bicycle for comfortable commute on Indian streets	5 Lakhs	5 Lakhs	-
3	Mr. Soya	Delivery of a variety of soy products, to promote a lifestyle of health and sustainability	5 Lakhs	2.5 Lakhs	2.5 Lakhs
4	Somebuddy Techonologies	SaaS project management & resource sharing platform to help architects, interior designers and construction firm owners	2 Lakhs	2 Lakhs	-
5	FoodForU	Building a SAAS marketplace for food pre-booking service, useful for restaurant and provide the best and predictable food experience during travel.	4 Lakhs	2 Lakhs	2 Lakhs
6	The Imperial Lubricants	Manufacturing of High Quality, Eco friendly and BS6 Norms compliant Lubricants	4 Lakhs	2 Lakhs	2 Lakhs
		Total	25 Lakhs	16.5 Lakhs	8.5 Lakhs

Rs. 16.5 Lakhs ( Phase I ) support released on 21<sup>st</sup> Jan 2021.

### Previous Funding Details

Ira Industries: Rs 5.00 Lakhs;

Gear2Care: Rs 3.00 Lakhs;

Somebuddy: Rs 3.00 Lakhs

The Imperial Lubricant: Rs 1.00 Lakhs

**TOTAL SEED FUNDING AND IPR SUPPORT TILL DATE: RS. 30 LAKHS**

### List of RCOEM TBI Startups

<b>Sr. No</b>	<b>Name of the start up</b>	<b>Startup Details</b>	<b>CEO</b>
1	Ira Industries MSME SSI Registration UAN: MH20A0025231  Funding : Rs. 5 Lakhs	Manufacturing of patented paver blocks for low, medium and high traffic applications; Permeable Blocks for rain water harvesting	Akshay Shirpurkar ( BE Civil 18 )
2	The Imperial Lubricants MSME SSI Registration UAN: MH20A0029430  Funding : Rs. 3 Lakhs	Manufacturing of High Quality, Eco friendly and BS6 Norms compliant Lubricants	Apurv Sanjay Dey ( B.E. Electronics-2020)
3	Gear to Care MSME SSI Registration UAN: MH20D0073756  Funding : Rs. 3 Lakhs	Two wheeler servicing and Four Wheelers washing on demand, door step solution	Suraj Birthariya, (B. E. Electronics - 2019)
4	Somebuddy Techonologies LLP AAJ-8105  Funding : Rs. 5 Lakhs	SaaS project management & resource sharing platform to help architects, interior designers and construction firm owners	Tarun Rawat, Vaibhav Kaushik, Akshans Gupta ( B.E. Electronics-2016 )

5	Alentar Electric LLP AAP-9182  Funding : Rs. 5 Lakhs	Custom built or retrofit futuristic Electric bicycle for comfortable commute on Indian streets	Ayush Mishra, (B.E. Electronics-2018 ) Sajal Sahu ( B.E. Electrical -2018 )
6	FoodForU CIN No: U74999MH2020PT C3379 71  Funding : Rs. 2 Lakhs	Building a SAAS marketplace for food pre-booking service, useful for restaurant and provide the best and predictable food experience during travel.	Piyush Chhawsaria (BE EC 2021)
7	TESTMAN QUALITY ASSURANCE SERVICES PRIVATE LIMITED - CIN - U74999MH2019PTC3343 84	SaaS platform for integration of all kinds of Industrial Testing Services	Adwait Wankhede (M.tech Geotech )
9	Mr. Soya MSME SSI Registration UAN: MH20A0089516  Funding : Rs. 2.5 Lakhs	Delivery of a variety of soy products, to promote a lifestyle of health and sustainability	Atul Pandit ( B.E. IT 2021)
8	Happico India MSME SSI Registration UAN No.MH20D0057882  Funding : Rs. 3 Lakhs	Manufacturer of Dark Belgian Chocolate	Yash Pande ( MBA 2020), Sonal Bahilani ( MBA Integrated-2021)
10	CineVibes	Photography Platform for photographers and AV professionals	Mandar Mohite (B.E. VI Sem Electrical)
11	Fameximpex Technologies Pvt. Ltd. CIN - U74999MH2018PT C3148 90	Bio-Diesel Production from Waste cooking , refined, bleached, and deodorized (RBD) palm oil	Rohan Bang (MBA-2020)

12	Uniformwala.online	On line, on demand school uniforms and accessories provider An aggregator SAAS platform for parents, manufactures, retailers and schools	Hritik Jain ( B.E. IT 2021)
13	Bamboo Shine Pvt. Ltd.	Agritech Solution in Bamboo Plantation and Bamboo Livelihood	Shubham Kartik Debnath BE Electronics 2021
14	Agrodia Enterprises LLP. LLP: AAT-6447	Agriculture input supplies retail chain.	Harshal Gunderao Thakare (MBA, 2021)
15	Qurioo Edusolutions Private Limited CIN - U80900MH2020PT C349706	Ed-Tech platform for non-conventional career paths (Education Mid school children)	Nikunj Chandak Mech BE CSE 2017 Sujoy Bose BE EN 2017
16	Upshot Global	B2B Marketplace International Import & Export	Raunak Rakesh Singh (BE Ind 2018)
17	RPC Projects UAM No.: MH20D0071162	Civil Engineering projects / Civil Engineering solutions	Poonam Gupta (M.Tech Structurs Civil Engineering)
18	Million Magnificent IT Solutions UDYAM-MH-20-0027757	Online needs from Website Design, Website Development, Content Management System (CMS theming), SEO & Digital Marketing	Monarch .A.Shukla First Year BE (Electrical)

## INDUSTRY INSTITUTE INTERACTION

### B. PROPOSALS SUBMITTED TO VARIOUS GOVERNMENT ORGANIZATIONS

1. The Institute has submitted proposal for being Nodal Training Institute (NTI) to promote Agri-Entrepreneurship under Agri-Clinics & Agri Business Centres (AC&ABC) scheme worth Rs.10 Lacs.
2. The Institute has submitted 4 proposals for One week In-service Training Programs during 2021-22 to the Department of Personnel and Training- Government Of India.
3. The Institute has associated with MIDC Industries Association for Industry Apprenticeship Initiative (IAI) under project STRIVE of DGT, Ministry Of Skill Development & Entrepreneurship- Govt. of India.

### C. SYMPOSIUM ORGANIZED WITH INDUSTRY

**IN ASSOCIATION WITH**  
**RCOEM**  
Shri Ramdeobaba College of Engineering and Management, Nagpur

**31<sup>ST</sup> DIGITAL CHAPTER CONVENTION ON QUALITY CONCEPTS**  
ORGANIZED BY  
QUALITY CIRCLE FORUM OF INDIA  
NAGPUR CHAPTER

**THEME: Developing "SELF RELIANT BHARAT" through Quality Concepts**

**TECHNICAL PAPER COMPETITION FOR STUDENTS**  
**31<sup>ST</sup> DI-CCQC-2020**

<b>Topic:</b> Quality Concept (5S, Kaizen, Poka Yoke, TQM, Quality Circle, Six Sigma etc.)	<b>Date of Submission</b> 16 <sup>th</sup> to 31 <sup>st</sup> August 2020
<b>Participation Fees:</b> Discounted participation fees of Rs. 600 per paper, having 3 authors maximum.	<b>Mode of Submission</b> Through E-mail

**AWARDS & RECOGNITION**  
Top 3 Technical papers will be awarded prize  
Digital Certificate to all the participants

**KNOW MORE**  
<https://www.qcf nagpur.in/upcomingevent.html>

**Mr. Ashok Gadge**  
Vice Chairman-QCFI Nagpur  
Mob.: 937038 9167  
qcfi.nagpur@gmail.com

**Mr. Vivek Shrouty**  
Secretary-QCFI Nagpur  
Mob.: 75070 45308  
vivekshrouty@gmail.com

**Dr. Rajiv B. Khaire**  
Professor In-Charge, III-Cell RCOEM  
Mob.: 9860465760  
khairerb@rk nec.edu

\*T&E apply



The institute along with Quality Circle Forum of India (QCFI) Nagpur chapter organized 31<sup>st</sup> Annual Chapter Convention on Quality Concepts (31<sup>st</sup> Di~CCQC- 2020) from 16<sup>th</sup> August 2020 to 31<sup>st</sup> August 2020 and valedictory function organized on 20<sup>th</sup> September, 2020

The convention included events like Quality Circle Case study presentations, TQM Tools of management presentation like Kaizen, 5S, Safety, Six Sigma, Poka Yoke & TPM, competition on Slogan, Poem, Essay and Poster also organized.

Knowledge test based on QCFI guidelines was conducted on 10<sup>th</sup> and 11<sup>th</sup> September 2020 through digital The knowledge test mode was designed and developed by RCOEM team in consultation with QCFI Nagpur Chapter.

### D. MOU SIGNED

The Institute has signed MoU with Public, Private & Government organisation with focus on Consultancy, Projects, Industry Visit, Faculty Training, Co Teaching etc.

Few of the MoUs that were signed during these challenging times are with

- ☑ Quality Circle Forum of India, Nagpur
- ☑ Kingway Hospital Nagpur
- ☑ Vasantao Naik State Agriculture Extension Management and Training Institute Nagpur

### E. AWARENESS OF CIIT

The image displays three promotional posters for webinars titled "Industry 4.0: Insights through RCOEM CIIT". Each poster is for a different date and features a different speaker.

- Poster 1 (Left):**
  - Organizers:** Shri Ramdeobaba College of Engineering and Management, Nagpur; Dait Indian Chamber of Commerce & Industry; RCOEM - TATA TECHNOLOGIES - CIIT.
  - Date/Time:** 18<sup>th</sup> February 2021, 4:00 pm to 5:30 pm.
  - Speaker:** Mr. Pushkaraj Kaulgud, Global Director - EESS CoE, TATA Technologies.
  - Registration Link:** <https://tinyurl.com/lr1jd6a>
- Poster 2 (Middle):**
  - Organizers:** Shri Ramdeobaba College of Engineering and Management, Nagpur; MIDC Industries Association & GIZ; RCOEM - TATA TECHNOLOGIES - CIIT.
  - Date/Time:** 11<sup>th</sup> December 2020, 4:00 pm to 5:30 pm.
  - Speaker:** Dr. Ishfaq Ahmed Khan, Sr. Project Manager, TATA Technologies.
  - Registration Link:** <https://tinyurl.com/lr1jd6a>
- Poster 3 (Right):**
  - Organizers:** Shri Ramdeobaba College of Engineering and Management, Nagpur; Vidarbha Industries Association; RCOEM - TATA TECHNOLOGIES - CIIT.
  - Date/Time:** 6<sup>th</sup> January 2021, 4:00 pm to 5:30 pm.
  - Speaker:** Mr. Pushkaraj Kaulgud, Global Director - EESS CoE, TATA Technologies.
  - Zoom Meeting:** Meeting ID: 521 6964 7671, Passcode: 838337.

RCOEM has established a state-of-art Center for Invention, Innovation, Incubation & Training (CIIT) along with Tata Technologies. Series of Webinar were organised for Awareness of infrastructure available along with different Industry Association. Webinars were organised with Dalit Indian Chamber of Commerce & Industries (DICCI), MIDC Industries Association(MIA)&Vidarbha Industries association (VIA)etc with resource persons from Tata Technologies.

#### F. ADJUNCT FACULTY

In order to involve Industry experts to deliver the contents of various subjects taught in Engineering & Management discipline, following professionals were invited & who have accepted to be Adjunct faculty of the Institute:

1. Mr. Shailesh Awale- Director & Centre Head-HCL
2. Mr. Prasanna Deshpande- Client Partner & Ninja Agile Coach TCS
3. Mr. Chandrashekhar Shegaonkar- President MIA
4. Mr. Suresh Pandilwar- Head-HR Topworth Group of Industries
5. Dr. Dipak Waikar- Director, EduEnergy Singapore

#### G. CONSULTANCY AND TRAINING

The Institute is involved in Consultancy & Training activities with Government private organizations. Few of the activities initiated are:

- ☐ Department of Computer Science and Engineering has received Consultancy worth Rs. 81 Lacs on “Development of Coal Quantity Exploration Technique based on Convolutional Neural Network and Hyperspectral Images” under Ministry of Coal.
- ☐ Department of Civil Engineering has received Consultancy from Afcons Infrastructure Limited Mumbai for Investigation of Defects in Flexible Pavements.
- ☐ Department of Civil Engineering has been approved as Advisor for undertaking Transportation Engineering, Structural Engineering & Geotechnical Engineering under PWD of Govt. of Maharashtra.

- ☐ Department of Electrical Engineering has received Electrical Consultancy from VANAMATI, Nagpur.
- ☐ Department of Management Technology conducted SAS Exam Training for employees of AG office (Government of India).
- ☐ Department of Management Technology conducted a Training on “Managing Change and Managing Millennials” for the employees of Power Grid Corporation of India Limited.
- ☐ Cyber Security Awareness program was conducted for the employees of Power Grid Corporation Ltd.

## **H. MISCELLANEOUS ACTIVITIES**

### **1. Collaboration with HCL for Integrated MCA and MBA Program**

Advance level discussion happened with Centre Director of HCL for initiating Integrated MCA & MBA program for the employees of HCL Limited.

### **2. ONLINE TRAINING ON LEAN SIX SIGMA YELLOW BELT CERTIFICATION**

RCOEM QCFI Centre of Human Excellence conducted the Training for students. Resource person was Mr.MayurChapate Certified Lean Six Sigma Black Belt and Lean Manage.

## CENTRAL LIBRARY FACILITIES

---

Central Library of Shri Ramdeobaba College of Engineering and Management, was established in the year 1984. It is regarded as the best technical Library. It serves as a knowledge hub containing resources not only in the form of print but also in e-resources. The library aims at developing a comprehensive collection of documents that is useful for the faculty and students in their education and research activities in the institute. The library is open to all students and staff members from 8.00 am to 8.00 pm on all working days. There is a rich collection of volumes of textbooks, reference books, National and International Journals in all branches of Engineering, Science, Technology, Management and General Studies. The library makes efforts to increase this collection. These Books are classified according to UDC classification scheme and open access system is followed in the library.

RCOEM has always recognized the significance of enrichment of academic that takes place with the help of Library. Library is a member of National Library Network – DELNET. Information from National Program on Technology Enhanced Learning (NPTEL) and other Electronic Resources are also available for the user community. On-line e-journals can be accessed such as IEEE, ASCE, ASME & EBSCO, ASCE Library members are allowed to access all materials (such as Books, Journals, Magazines, Digital materials and E-Journals etc.) available in the library. Library functions such as Acquisition, Circulation, and Cataloging have been automated using integrated software ERP such as GEMS with Web OPAC.

### REFERENCE SECTION

---

The reference section of the library has rich collection of international editions of reference books, hand books, conference proceedings, encyclopedias and various reference documents.

### BACK VOLUMES

---

Back volumes of journals have been neatly bounded and categorized under their respective subjects for reference.

### PERIODICAL SECTION

---

The library has a separate periodical section and subscribes to National and International Journals. The library receives Journals, Newsletters to provide the staff and students latest information in technical education, research and developmental activities.

### AUDIO-VISUAL MATERIALS

---

The library has a rich collection of Audio - Video tapes, CD's Cassettes etc. It also facilitates to view video programmes.

### DIGITAL LIBRARY

---

The Digital library has 20 dedicated computers with multimedia and internet facility. The users use this service for searching information and downloading articles from various e-resources

### ONLINE PUBLIC ACCESS CATALOGUE

---

The library is equipped with computerized Online Public Access Catalogue (OPAC) for searching availability of books. Barcode system is followed in all transactions.

### RESOURCES

---

**Remote Access to the subscribed e-resources:**

Immediately after the lockdown, Students and faculty were reminded about how to access the subscribed e-resources through remote access platform Knimbus by providing them the link that is [www.new.knimbus.com](http://www.new.knimbus.com). The subscription was from January to December 2020 and the usage is as follows:

<b>Publishers</b>	<b>Searches</b>	<b>Page Views &amp; Downloads</b>
Scopus	6	6597
Science Direct	67	363
American Society of Mechanical Engineers (ASME)	49	175
Springer	45	119
Knimbus Open ebooks	18	86
EBSCO	18	81
Knimbus Open Journals	17	80
eBooks Premium	21	68
Oxford University Press (OUP)	16	33
American Society of Civil Engineers (ASCE)	10	27
Knimbus Multimedia	0	17
Pubmed	0	10
DELNET	2	7
Cambridge University Press	1	3
Institute of Physics (IOP)	1	3
BioMed	0	2
IEEE	1	2
Optical Society of America (Optics InfoBase)	1	2
Eurekalert	0	1
World Scientific	0	1

### 1) LOGIN/ PASSWORDFOR EBSCO E-BOOKS &COMPLIMENTARY HBRASCEND & HARVARD BUSINESS PRESS EBOOK COLLECTION

A separate login password was created for the usage of engineering e-books by EBSCO & complimentary HBRAscend & Harvard Business Press eBook Collection for our students & faculty through the link and Access URL: <http://search.ebscohost.com>, Username : ramdeobaba, Password: library@2020.

### 2) PEARSON E-LIBRARY

Pearson E-library offered an entire section of e-books for Shri Ramdeobaba College Of Engineering & Management Nagpur through their url *Url: <https://elibrary.in.pearson.com> till 30<sup>th</sup> April 2020 which was circulated amongst students & faculty.*

### 3) ONLINE ACCESS TO QUESTION PAPERS & PROJECT REPORTS.

A separate link was created and posted on the library page of the college website so that students and faculty could access the question papers from home also at the same time a online requisition format for accessing Project reports was created.

### 4) FREE AND OPEN ACCESS RESOURCES.

A list of free & open access resources consisting of e-books, e-journals, e- databases, MOOC courses along with their URL was circulated to all the students, faculty and also posted on the library webpage.

### 5) REGISTRATION ON NATIONAL DIGITAL LIBRARY OF INDIA.

Students & faculty were encouraged to register on NDLI and access the vast e - resources provided by the platform.

Apart from above mentioned e- facilities, the physical books & the book bank books were issued to all faculty & students who visited the campus.

## FACILITIES & INFRASTRUCTURE

---

### MANDIR

---



### ADMINISTRATIVE BLOCK

---



## AUDITORIUM

---



## HOSTELS

---







## COMPUTER FACILITY

---





CANTEEN



BANK+ATM

---



MESS/GYMNASIUM

---







SPORT FACILITIES





## OTHER FACILITIES

---





RCOEM - TATA - CIIT

---



Catia V6 PLM Training



Reverse Engineering 3-D Scanner Training



Internet of Things (IoT) Training