

NEWSLETTER

February 2021

Vol. 3

Issue: 1



हरियाणा केंद्रीय विश्वविद्यालय Central University of Haryana

(Established vide Act No. 25 (2009) of Parliament)
(NAAC Accredited 'A' Grade University)

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कुलगीत

विद्या धनं सर्व धनं प्रधानम्...
न चौरहार्यम्, न च राजहार्यम्, न भ्रातृभाज्यम्, न च भारिकारी,
व्यये कृते वर्धते नित्यं, ..विद्या धनं सर्व धनं प्रधानम् ।.
शिक्षा दीक्षा की परंपरा से, राष्ट्र का हुआ सदा उत्थान ।
कौशल और नवसृजन से, सजा हुआ गौरव अभियान ।।

ज्ञान विज्ञान की शक्ति से हम,
नव मंडल में हुए स्थापित ।
सीखा है इतिहास से हमने,
नव तकनीकों में हुए समाहित ।।

संस्कारों की शक्ति को जब,
लिया है युवा ने पहचान ।
हम सब बने राष्ट्र के रक्षक,
आओ करें नव भारत निर्माण ।।

योग, कला, विधि, विज्ञान विषय का,
विश्वविद्यालय देता ज्ञान ।
तन मन और जीवन, सुचिता का,
देता है यह शुभ वरदान ।।

जन्म लेकर जिस धरा पर,
शौर्य करता शीश बलिदान,
अपनी मेहनत से माटी को,
सोना कर दे जहाँ किसान ।।

हर की धरा, हरियाणा की मरुभूमि,
पर स्थापित, अपना कुल-महान ।
शिक्षा और स्वावलंबन देता,
ऐसे कुल को करें प्रणाम ।।

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रमेश पोखरियाल 'निशंक'
Ramesh Pokhriyal 'Nishank'



सत्यमेव जयते

शिक्षा मंत्री
भारत सरकार
MINISTER OF EDUCATION
GOVERNMENT OF INDIA



MESSAGE

It is indeed heartening to know that Central University of Haryana is publishing its Annual 'Newsletter'. I am happy to observe that the progress that the University made in 2020 is highly praiseworthy. This 'Newsletter' appropriately reflects the performance of the University in academic, research, administration and community development initiatives.

It is clear from this 'Newsletter' that Central University of Haryana is committed to the quality improvement in all aspects of academics and administration. It is also worth mentioning that the qualitative and reformative changes are taking place in the University in consonance with National Education Policy 2020. Since the announcement of the Policy, the University has been working in the right direction to adhere to the ideas, ideals, principles and matter as enshrined in the National Education Policy 2020. The promptness of the University to constitute its Task Force for devising the roadmap for the implementation of the Policy deserves special appreciation. I have also observed the phenomenal progress of the University in terms of infrastructure, academic expansion and social outreach. I am sure that in the next 'Newsletter', the University will definitely portray its numerous academic and administrative achievements in consonance with National Education Policy 2020.

I am sure that the University shall achieve greater heights in the coming academic year. May the University bloom and flourish as the promising hub of higher education in the country!

Wishing the entire fraternity of Central University of Haryana a bright future ahead.

(Ramesh Pokhriyal 'Nishank')



सबको शिक्षा, अच्छी शिक्षा

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हरियाणा केंद्रीय विश्वविद्यालय

महेंद्रगढ़-123031 (हरियाणा), भारत
नैक द्वारा 'ए' ग्रेड प्राप्त विश्वविद्यालय



Central University of Haryana

Mahendergarh-123031 (Haryana), India
NAAC Accredited 'A' Grade University



प्रो. आर. सी. कुहाड़, कुलपति
(एफएनएएससी, एफएनएएस, एफवीआरएस)

Prof. R.C. Kuhad, Vice-Chancellor
(FNASc, FNAAS, FBRS)

Achieving Through Believing

From the Desk of the Vice Chancellor...



I am extremely happy to present this 'Newsletter' which carries our outstanding achievements of the year 2020. We have earned a rightful place in the education sector with the various achievements in academics, research, innovation, infrastructural development and outreach activities. This 'Newsletter' not only showcases various achievements of the University but also reflects its growth trajectory. The bunch of institutional accomplishments highlighted in the Newsletter indicates that the year 2020 has been quite eventful for the University despite the pandemic period.

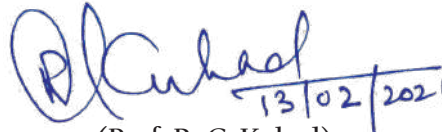
I take this opportunity to compliment all the members of our University for their marvelous achievements. I specifically appreciate our students and faculty for large number of students qualifying the prestigious examinations like UGC/CSIR-NET and JRF; development of MOOCs with massive enrollments on SWAYAM platform; outstanding contribution in research; organization of national/international conferences/workshops/webinars; carrying out student-centric outreach initiatives; various innovations under the banner of Centre for Innovation, Skills and Entrepreneurship Development (CISED); and series of extension lectures by stellar academicians from India and abroad, which form the major highlights of the Newsletter

The development of academic infrastructure has also been remarkable. Our achievements are testimony to the fact that we don't have any dearth of motivated students, faculty and staff, and over the years, the University has matured to the extent that now we are able to attract 54% students from 26 different states other than Haryana. I believe that at the heart of all these achievements lie the collective efforts and commitment of University fraternity for institution building.

Taking a lead in implementation of NEP-2020 the University organized a two-day National Conference on National Education Policy, 2020 just after of its announcement by the central government. A special Task Force was constituted for devising the roadmap for the effective implementation of the National Education Policy, 2020. Recently, we also brought out the Manual of Citizen Charter and Standard Operating Procedures for the delivery of services and facilities to the stakeholders.

I hope this 'Newsletter' inspires our faculty and students to keep continuing their efforts in bringing name and fame to this University. The University is working in the mission mode to sustain the robust eco-system for research and innovation so as to enable the young minds to realise their aspirations and help them flower and blossom to their true potential.

Here I congratulate and compliment the IQAC team for publication of 'Newsletter'.


(Prof. R. C. Kuhad)





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About the University

University

The Central University of Haryana (established vide Central Universities Act, 2009) is funded and regulated by University Grants Commission and Ministry of Education (MoE), Government of India. The University is located at Jant-Pali villages of district Mahendergarh in South Haryana, which is now a part of the extended National Capital Region (NCR).

Visitor of the University

His Excellency, the President of India, Shri Ram Nath Kovind

Vice Chancellor

Prof. R.C. Kuhad

Vision

To develop enlightened citizenship of a knowledge society for peace and prosperity of individuals, nation and the world, through promotion of innovation, creative endeavors, and scholarly inquiry.

Mission

To serve as a beacon of change, through multi-disciplinary learning, for creation of knowledge community, by building a strong character and nurturing a value-based transparent work ethics, promoting creative and critical thinking for holistic development and self-sustenance for the people of India. The University seeks to achieve this objective by cultivating an environment of excellence in teaching, research and innovation in pure and applied areas of learning, with a focus on social enquiry, democratic ethos and inclusive socio-economic development, community outreach initiatives, scientific endeavors and technological advancement.

Objectives

The objectives of the University are:

- ❖ To disseminate and advance knowledge by providing instructional and research facilities in such branches of learning as it may deem fit;
- ❖ To make special provisions for integrated courses in humanities, social sciences, science and technology in its educational programmes;
- ❖ To take appropriate measures for promoting innovations in teaching-learning process and interdisciplinary studies and research;



- ❖ To educate and train manpower for the development of the country;
- ❖ To establish link age with industries for the promotion of science and technology;
- ❖ To pay special attention to the improvement of the social and economic conditions and welfare of the people, their intellectual, academic and cultural development.

Quality Statement

Perseverance, determination, enquiry, ethical conduct, probity, transparency, accountability and continuous self-evaluation and improvement to form the cornerstones of all endeavors for holistic and inclusive growth and development of society through excellence in academics, research and all other relevant and meaningful pursuits.

Schools of Study

Dedicated to its vision and mission, University is offering the programmes of study under the following Schools of Study during the Academic Session 2020-21:

1. School of Basic Sciences
2. School of Business and Management Studies
3. School of Education
4. School of Engineering and Technology
5. School of Humanities and Social Sciences
6. School of Interdisciplinary and Applied Sciences
7. School of Law
8. School of Life-long Learning

Academic Highlights

- ❖ Schools of Study : 8
- ❖ Departments of Study : 33
- ❖ Academic Programmes : 72

Undergraduate Programmes (8)

- 1) L.L.B. (3 Year) Professional Course
- 2) Bachelor of Technology (B.Tech) in Computer Science and Engineering, Electrical Engineering, Civil Engineering and Printing and Packaging Technology.
- 3) Bachelor of Vocational Studies (B.Voc.) in Biomedical Sciences, Industrial Waste Management and Retail and Logistics Management.



Postgraduate Programmes (31)

- 1) Master of Arts in Economics, English, Hindi, History and Archeology, Political Science, Psychology, Sociology and Sanskrit.
- 2) Master of Business Administration (MBA), B.Ed, M.Ed., M.Com., M.C.A., MA-JMC, LL.M., Master of Library and Information Science, Master of Hotel Management and Catering Technology, Master of Tourism and Travel Management, M.Pharm. (Pharmacology) and Master of Physical Education and Sports (M.P.E.S.)
- 3) Master of Science in Environmental Science, Geography, Chemistry, Physics, Mathematics, Statistics, Microbiology, Biochemistry, Nutrition Biology, Biotechnology and Yoga.

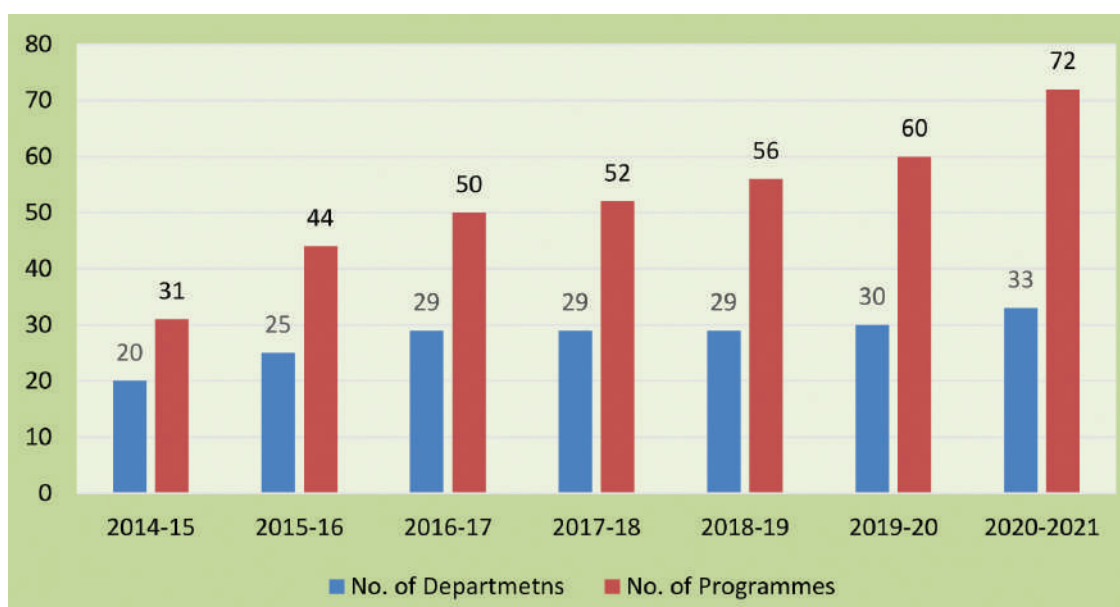
M.Phil. Programmes (7)

M.Phil. in Economics, Education, English, Hindi, Political Science, Sociology, and History and Archeology.

Ph.D. Programmes (26)

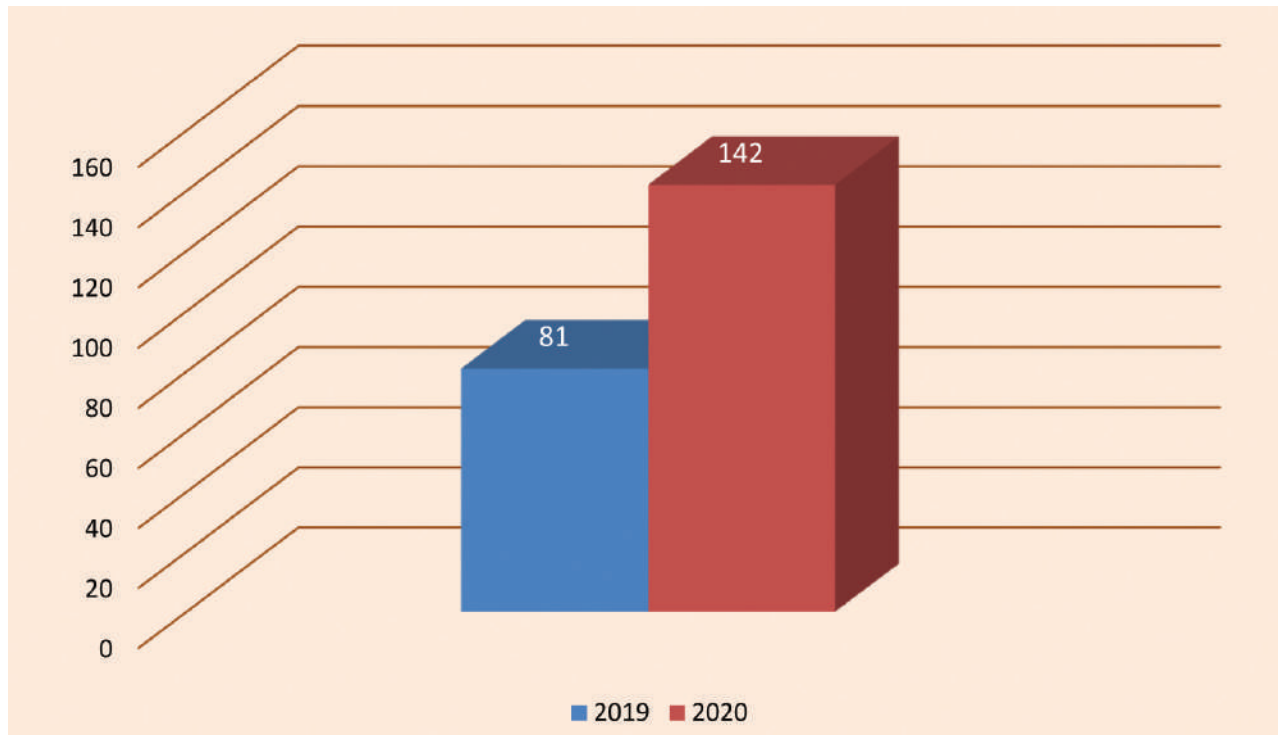
Ph.D. in Biochemistry, Biotechnology, Chemistry, Commerce, English and Foreign Languages, Hindi, History and Archaeology, Law, Management Studies, Mathematics, Microbiology, Nutrition Biology, Physics and Astrophysics, Political Science, Sociology, Statistics, Education, Civil Engineering, Computer Science and Engineering, Electrical Engineering, Psychology, Geography, Pharmaceutical Sciences, Physical Education and Sports, Tourism and Hotel Management and Yoga.

Progression of Departments and Programmes of Study





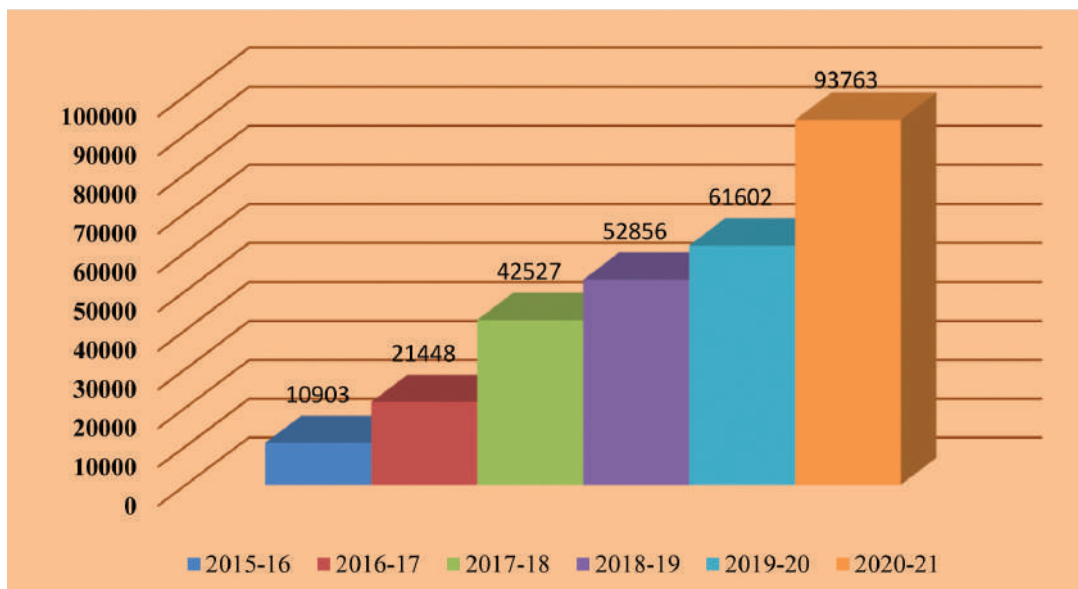
Faculty Recruitment



Admissions

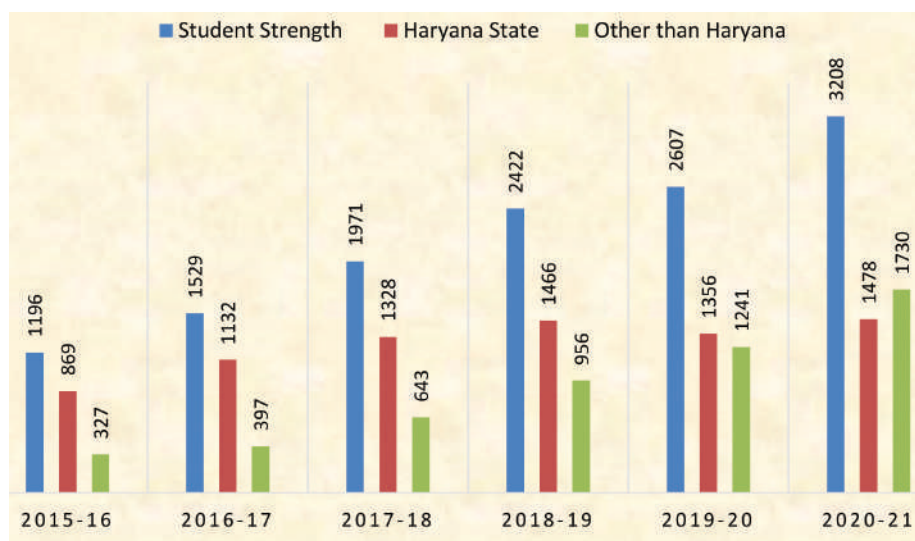
The University offered admissions in various academic programmes through Central University Common Entrance Test (CUCET) and the steep rise in number of aspirants from 10903 in 2015-16 to 93763 in 2020-21 testifies the commitment of the University towards academic excellence.

CUCET Applicants

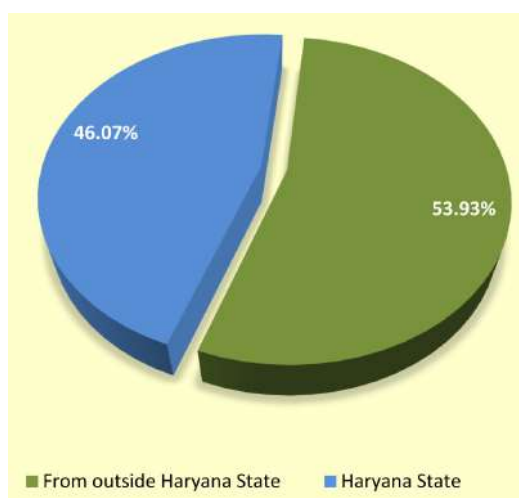
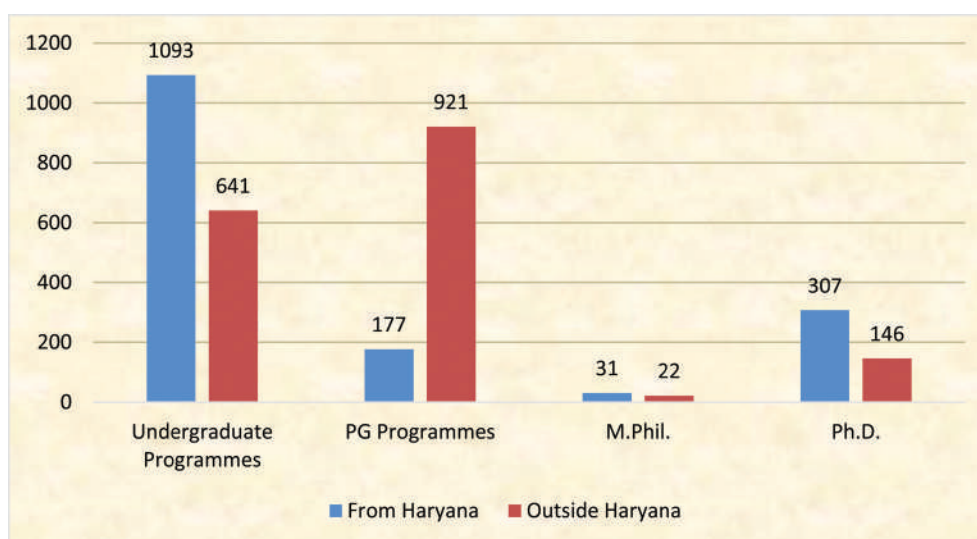




Session-wise Student Enrollment



Diversity in Enrollment (2020-21)





Research

- ❖ Completed Research projects during 2020 : 8
- ❖ Ongoing sponsored research projects : 17
- ❖ New Research Projects sanctioned : 3
- ❖ Total Amount Received during 2020 : 25.70 lakhs
- ❖ Research Papers Published : 231
- ❖ Highest Impact Factor : 12.12
- ❖ Books/Book Chapters : 64
- ❖ Patents Filed : 5
- ❖ Patents Published : 7
- ❖ Indexed (Scopus/Web of Science/UGC CARE listed) : 202

Research Projects

| Department | Name of Faculty | Title of Project | Funding Agency |
|--------------------------|--------------------------|--|---|
| Completed in 2020 | | | |
| Chemistry | Dr. Rajeev S. Menon | Exploiting the synthetic potential of unsaturated sulfones in heterocyclic construction and alkaloid synthesis | DST-SERB |
| Chemistry | Dr. Azaj Ansari | Understanding Mechanism of Energy Transfer in Photoredox Catalyst and Its Applications in Catalytic Transformation Reactions | SERB |
| Chemistry | Dr. Manoj Kumar Gupta | Towards the total synthesis of bioactive natural products: New drug discovery and development | UGC |
| Education | Dr. Dinesh Chahal | Application of Innovative Strategies at School Level | PMMMNTT Scheme/MHRD/GoI, Pondicherry University |
| Microbiology | Dr. Jitendra Kumar Saini | Improving thermal and inhibitor stress tolerance in yeast for cost-effective second generation bioethanol production: An adaptive evolution based approach | SERB-DST |
| Microbiology | Dr Avijit Pramanik | Identification and cloning of siderophore biosynthetic gene cluster from <i>Vibrio alginolyticus</i> and heterologous expression of siderophore in <i>E. coli</i> for further characterization and utilization | DST-SERB |
| Microbiology | Dr Avijit Pramanik | Isolation and characterization of bacterial strains inhibiting phytopathogenic fungi <i>Bipolaris oryzae</i> and <i>Bipolaris sorokiniana</i> for development as biocontrol agent | UGC |

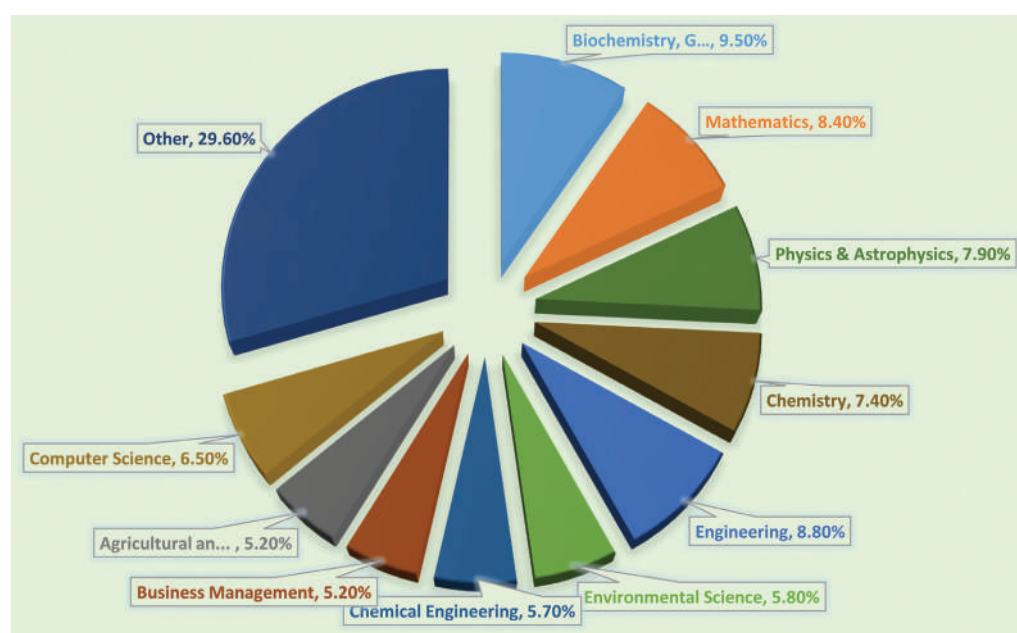


| Department | Name of Faculty | Title of Project | Funding Agency |
|-------------------------|--------------------------|--|--|
| Microbiology | Dr Puja Yadav | Identification and functional characterization of G4 DNA in Helicobacter pylori: a novel therapeutic target | DST-SERB |
| Ongoing Projects | | | |
| Biotechnology | Dr. Namrata Dhaka | Identification of microRNAs involved in the regulation of thousand seed weight and oil content in Brassica juncea | DST |
| Biotechnology | Dr. Ram Gopal Nitharwal | Elucidating the role of superoxide-dismutase (SOD) and other accessory constituents of the Mycobacterial Respiratory chain Supercomplex III-IV | SERB |
| Biotechnology | Dr Inderjeet Kaur | Cur@ZIF-8 Metal-organic Framework- a promising nanomedicine for COVID-19 | University of Delhi |
| Biotechnology | Prof Satish Kumar | FIST grant | DST |
| Biotechnology | Dr. Kashyap Dubey | Environmental... organic pollutants in the selected areas of china, India and Russia (Joint project) | DST |
| Chemistry | Dr. Deepak pant | Utilization of biomass ash from Starwire India Vidyut Pvt. Ltd, Mahendragarh (Consultancy Project) Starwire India Vidyut Pvt. Ltd, Mahendragarh | Starwire India Vidyut Pvt. Ltd, Mahendragarh |
| Economics | Dr. Prakash Kanoo | MoS ₂ /S ₄ Integrated Porous Surfaces for Catalytic Hydrogen Generation via Water Splitting | SERB |
| Law | Prof. Rajesh Kumar Malik | Right to Property and Land Acquisition by HUDA and HSIIDC: A socio legal study of Gurgaon, Punch Kula, Kurukshetra and Sirsa, Districts of Haryana | UGC |
| Microbiology | Dr Gunjan Goel | Development of probiotic fermented food for prevention of childhood diarrhea against Indian diarrhal pathotype | Pronat SC, Spain |
| Microbiology | Dr. Jitendra Kumar Saini | Diversity of white rot fungal laccase enzyme in Northeast India | DBT |
| Microbiology | Dr Vinod Yadav | Transcriptional regulation of ICAM-1 gene expression in human monocyte and macrophage cells | DST-SERB |
| Nutrition Biology | Dr Tejpal Dhewa | Ending Micronutrient Malnutrition Through Value Added Traditional Rural Fermented Dairy Foods of Haryana and Rajasthan | SERB-DST |
| Nutrition Biology | Dr. Ashwani Kumar | Surface expression of Glucagon like peptide-1 on indigenous probiotic Lactobacillus for management of type 2 diabetes | SERB |



| Department | Name of Faculty | Title of Project | Funding Agency |
|----------------------------|-----------------------------|--|----------------------------|
| Nutrition Biology | Dr. Savita Budhwar | Evaluation, Utilization and Disseminations of Value Added Products from Byproducts of Bengal gram (<i>Cicer arietinum</i>) for food security. | DST-SERB |
| Nutrition Biology | Dr. Savita Budhwar | Food Based Mitigation of Malnutrition in Women by Improving Efficacy of Coarse Cereals and Millets | DST-SEED |
| Physics under SOET | Dr. Anshu | Structure and dynamics of Functionalized and Catalysts Modified Carbon nanotubes for charge and Mass transport applications | IGSTC, DST AND MPG GERMANY |
| Sociology | Dr. T. Longkoi Khiamniungan | Reservation for Women, Customary Laws and Article 371A: A Naga Women Struggle for Power Sharing in Nagaland. | ICSSR |
| Biotechnology | Dr. Namrata Dhaka | Identification of key microRNA-target modules and genes involved in the determination of grain weight and micronutrient content in Sorghum bicolor using small RNA and transcriptome profiling | SERB |
| Sanctioned Projects | | | |
| Electrical Engineering | Dr. Kalpana Chauhan | Solar based Charging Station of Electric Vehicles at CUH Campus | UGC |
| Physics under SOET | Dr. Anshu | Solar Photocatalytic Applications of Semiconducting Metal Oxide based Nanomaterials | UGC |

Subject-wise publications



Top ten publications of the year







Renewable and Sustainable Energy Reviews

Volume 131, October 2020, 109965



Advancement in valorization technologies to improve utilization of bio-based waste in bioeconomy context

Zeba Usmani ^{a, 1}, Minaxi Sharma ^{b, 1}, Yevgen Karpichev ^a, Ashok Pandey ^c, Ramesh Chander Kuhad ^d, Rajeev Bhat ^b, Rajesh Punia ^e, Mortaza Aghbashlo ^f, Meisam Tabatabaei ^{g, h}  , Vijai Kumar Gupta ⁱ  

^a Department of Chemistry and Biotechnology, Tallinn University of Technology, 12618, Tallinn, Estonia

^b ERA Chair for Food (By-) Products Valorization Technologies (VALORTECH), Estonian University of Life Sciences, 51006, Tartu, Estonia

^c Centre for Innovation and Translational Research, CSIR-Indian Institute of Toxicology Research, Lucknow, 226 001, India

^d Central University of Haryana, Mahendragarh, Haryana, 123031, India

^e Department of Physics, Chaudhry Ranbir Singh University, Jind, India, 126102

^f Department of Mechanical Engineering of Agricultural Machinery, Faculty of Agricultural Engineering and Technology, College of Agriculture and Natural Resources, University of Tehran, Karaj, Iran

^g Faculty of Plantation and Agrotechnology, Universiti Teknologi MARA (UiTM), 40450 Shah Alam, Selangor, Malaysia

^h Microbial Biotechnology Department, Agricultural Biotechnology Research Institute of Iran (ABRII), Agricultural Research, Education, and Extension Organization (AREEO), Karaj, Iran

ⁱ AgroBioSciences (AgBS) and Chemical & Biochemical Sciences (CBS) Department, Mohammed VI Polytechnic University (UM6P), Lot 660, Hay Moulay Rachid, Benguerir 43150, Morocco












ARTICLE

<https://doi.org/10.1038/s41467-020-18550-1>

OPEN



Whole genome analysis of water buffalo and global cattle breeds highlights convergent signatures of domestication

Prasun Dutta^{1,2,13}, Andrea Talenti ^{1,13}, Rachel Young ¹, Siddharth Jayaraman ¹, Rebecca Callaby ^{1,3}, Santosh Kumar Jadhav⁴, Velu Dhanikachalam⁴, Mayakannan Manikandan ⁵, Bhim B. Biswa ⁵, Wai Y. Low ⁶, John L. Williams ^{6,7}, Elizabeth Cook ^{8,9}, Phil Toye^{8,9}, Eileen Wall¹⁰, Appolinaire Djikeng^{3,9}, Karen Marshall^{8,9}, Alan L. Archibald ¹, Suresh Gokhale⁴, Satish Kumar^{5,11}, David A. Hume¹²  & James G. D. Prendergast^{1,3} 



Bioresource Technology

Volume 304, May 2020, 123019



Review

Arabinofuranosidases: Characteristics, microbial production, and potential in waste valorization and industrial applications

Vikram Poria ^a, Jitendra Kumar Saini ^a, Surender Singh ^{a, b}  , Lata Nain ^b, Ramesh Chander Kuhad ^{c, d}

^a Department of Microbiology, Central University of Haryana, Mahendergarh, Haryana PIN-123031, India

^b Division of Microbiology, Indian Agricultural Research Institute, New Delhi PIN-110012, India

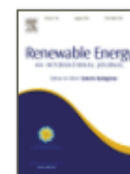
^c Central University of Haryana, Mahendergarh, Haryana PIN-123031, India

^d Lignocellulose Biotechnology Laboratory, Department of Microbiology, University of Delhi South Campus, New Delhi PIN-110021, India



Renewable Energy

Volume 156, August 2020, Pages 1233-1243



Process optimization for chemical pretreatment of rice straw for bioethanol production

Anu ^a, Anil Kumar Dr. Ph.D. ^b  , Kavish Kumar Jain Dr. Ph.D. ^c  , Bijender Singh Dr. Ph.D. ^{a, d}  

^a Laboratory of Bioprocess Technology, Department of Microbiology, Maharshi Dayanand University, Rohtak, 124001, Haryana, India

^b Department of Botany, Pt. N.R.S. Govt. College, Rohtak, 124001, Haryana, India

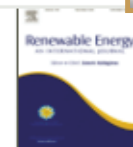
^c Laboratory of System Biology for Biofuels, International Centre for Genetic Engineering and Biotechnology, Aruna Asaf Ali Road, New Delhi, 110067, India

^d Department of Biotechnology, Central University of Haryana, Jant-Pali, Mahendergarh, 123031, Haryana, India





Renewable Energy

Volume 160, November 2020, Pages 1228-1252



Review

Multifarious pretreatment strategies for the lignocellulosic substrates for the generation of renewable and sustainable biofuels: A review

Anu ^a, Anil Kumar ^b, Alexander Rapoport ^c, Gotthard Kunze ^d, Sanjeev Kumar ^e, Davender Singh ^f, Bijender Singh ^{a, g}  

^a Laboratory of Bioprocess Technology, Department of Microbiology, Maharshi Dayanand University, Rohtak, 124001, Haryana, India

^b Department of Botany, Pt. N.R.S. Govt. College, Rohtak, 124001, Haryana, India

^c Laboratory of Cell Biology, Institute of Microbiology and Biotechnology, University of Latvia, Jelgavas Str., 1-537, Riga, LV-1004, Latvia

^d Leibniz Institute of Plant Genetics and Crop Plant Research (IPK), Corrensstraße 3, 06466, Gatersleben, Germany

^e Department of Life Sciences and Bioinformatics, Central Assam University, Silchar, 788011, Assam, India

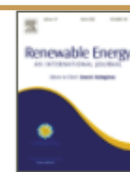
^f Department of Physics, RPS Degree College, Balana, Satnali Road, Mahendergarh, 123029, Haryana, India

^g Department of Biotechnology, Central University of Haryana, Jant-Pali, Mahendergarh, 123031, Haryana, India



Renewable Energy

Volume 147, Part 1, March 2020, Pages 2091-2101



Sequential dilute acid and alkali deconstruction of sugarcane bagasse for improved hydrolysis: Insight from small angle neutron scattering (SANS)

Hemansi ^a, Rishi Gupta ^b, Vinod K. Aswal ^c, Jitendra Kumar Saini ^a  

^a Department of Microbiology, Central University of Haryana, Mahendergarh, 123031, Haryana, India

^b SVI Research, Gurugram, 122016, Haryana, India

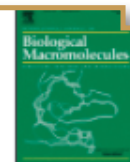
^c Solid State Physics Division, Bhabha Atomic Research Centre, Mumbai, 400085, India



ELSEVIER

International Journal of Biological Macromolecules

Volume 164, 1 December 2020, Pages 1729-1736



Magnetically recyclable catalytic nanoparticles grafted with *Bacillus subtilis* β -glucosidase for efficient cellobiose hydrolysis

Shivangi Chamoli ^{a, b}, Ekta Yadav ^c, Hemansi ^d, Jitendra Kumar Saini ^d, Ashok Kumar Verma ^a, Naveen Kumar Navani ^e, Piyush Kumar ^{c, e} ✉

- ^a Department of Biochemistry, C.B.S.H., Govind Ballabh Pant University of Agriculture and Technology Pantnagar, Uttarakhand, 263145, India
- ^b Deen Dayal Upadhyay Kaushal Kendra, Central University of Haryana, Mahendergarh, Haryana 123031, India
- ^c Department of Biochemistry, Central University of Haryana, Mahendergarh, Haryana 123031, India
- ^d Department of Microbiology, Central University of Haryana, Mahendergarh, Haryana 123031, India
- ^e Department of Biotechnology, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand 247667, India



ELSEVIER

International Journal of Biological Macromolecules

Volume 161, 15 October 2020, Pages 168-176



Nitrile hydratase mediated green synthesis of lactamide by immobilizing *Rhodococcus pyridinivorans* NIT-36 cells on N, N'-Methylene bis-acrylamide activated chitosan

Poonam Singh ^b, Ansu Kumari ^b, Kalpana Chauhan ^c, Chandrika Attri ^b, Amit Seth ^a ✉

- ^a Department of Life Sciences (Botany), Manipur University, Imphal, Manipur, India
- ^b Faculty of Applied Sciences and Biotechnology, Shoolini University, Bajhol, Solan (H.P.), India
- ^c Department of Chemistry, School of Engineering and Technology, Central University of Haryana, Mahendergarh, Haryana, India



Journal of Molecular Liquids

Available online 27 November 2020, 114847

In Press, Corrected Proof 



Cyclohexylamine an effective corrosion inhibitor for mild steel in 0.1 N H₂SO₄: Experimental and theoretical (molecular dynamics simulation and FMO) study

Harish Kumar ^a  , Tilak Dhanda ^b

^a Central University of Haryana, Dept. of Chemistry, Mahendergarh, India

^b Chaudhary Devilal University, Dept. of Chemistry, Sirsa 125 055, India



Food Research International

Volume 137, November 2020, 109385



Review

Trending biocontrol strategies against *Cronobacter sakazakii*: A recent updated review

Rajni Chauhan ^a, Niharika Singh ^b, Gaurav Kumar Pal ^c ¹, Gunjan Goel ^d  

^a Department of Biotechnology, Himachal Pradesh University, Shimla, India

^b Department of Biotechnology, Faculty of Engineering and Technology, Rama University, Kanpur 209217, Uttar Pradesh, India

^c Department of Applied Agriculture, School of Basic and Applied Sciences, Central University of Punjab, Bathinda 151001, Punjab, India

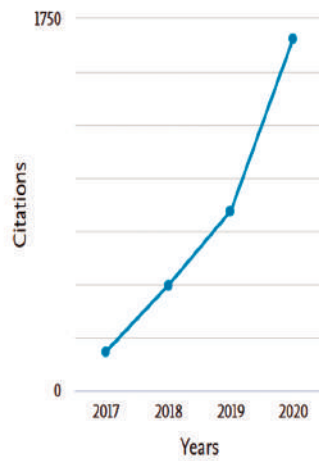


Highly Cited Papers (2017-20)

This is an overview of citations for the documents you've selected. Document *h*-index: 25 [View *h*-graph](#)

588 cited documents [+ Save to list](#)

Date range: 2017 to 2020 Exclude self citations of all authors Exclude citations from books



588 cited documents

| Documents <input type="button" value="↑"/> | Citations <input type="button" value="↓"/> |
|--|--|
| 1 | 396 |
| 2 | 156 |
| 3 | 130 |
| 4 | 107 |
| 5 | 83 |
| 6 | 81 |
| 7 | 60 |
| 8 | 53 |
| 9 | 50 |
| 10 | 47 |

These documents *h*-index 25

Of the documents considered for the *h*-index, 25 have been cited at least 25 times

*Source: SCOPUS

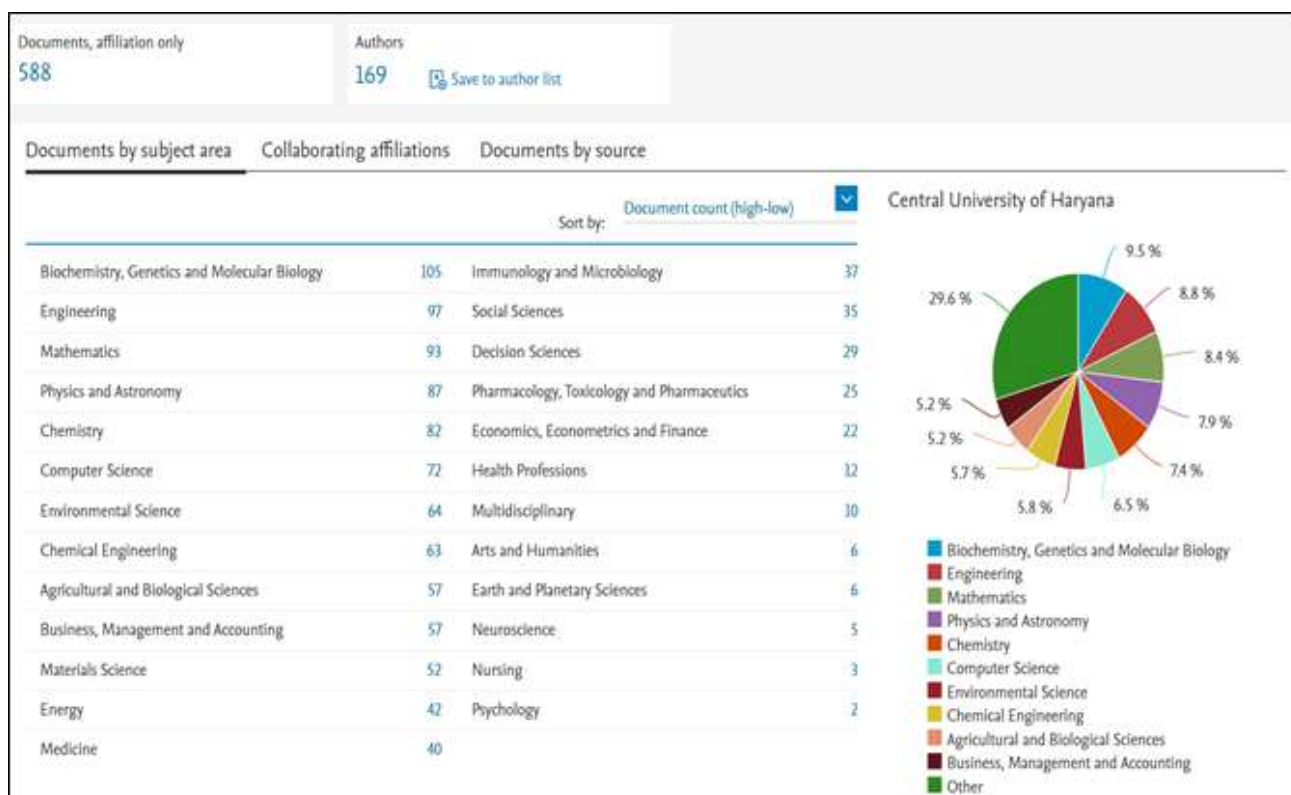
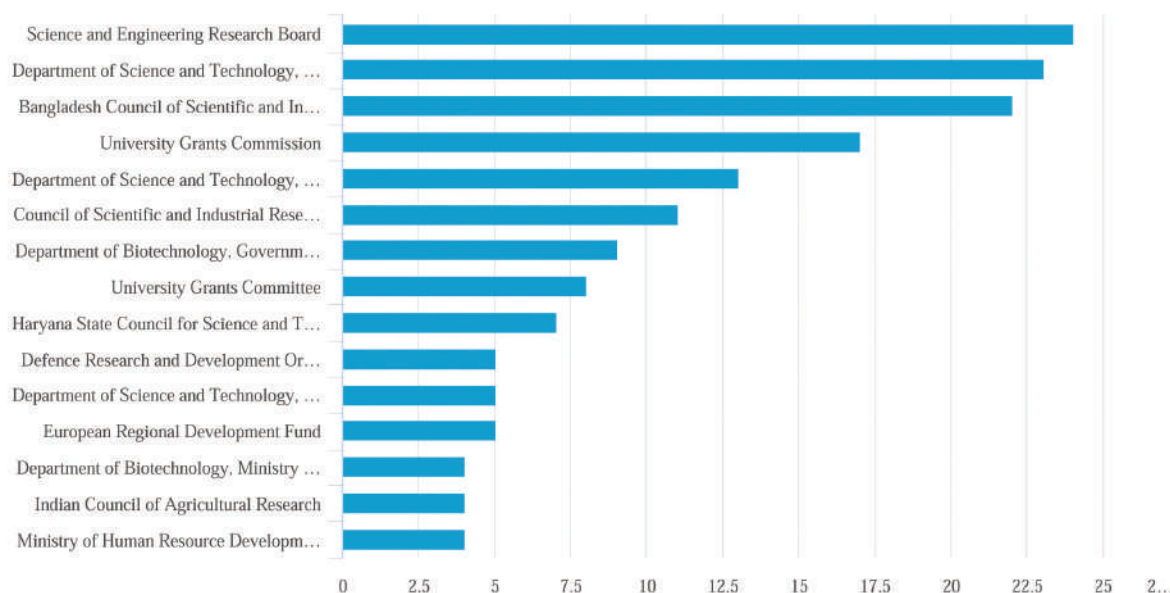


Subject-wise Publications (2016-20)

Documents by funding sponsor

Scopus

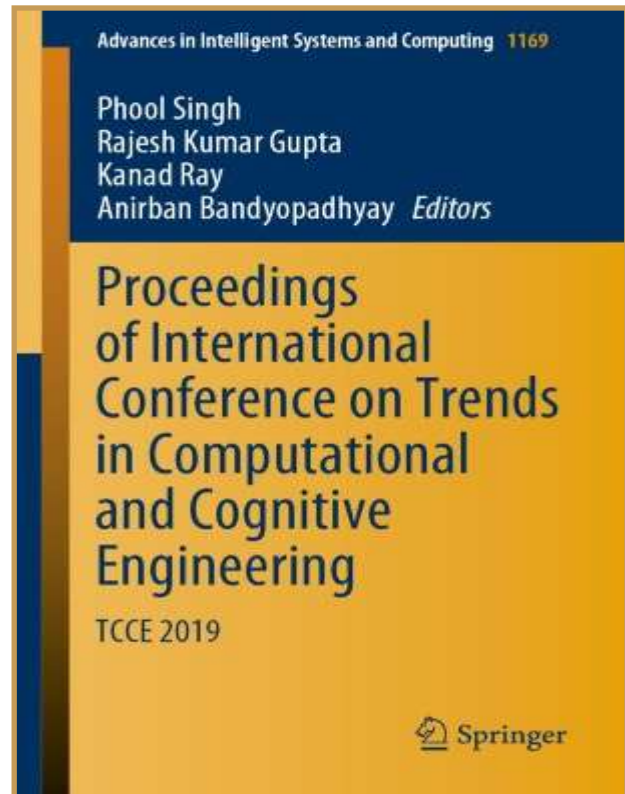
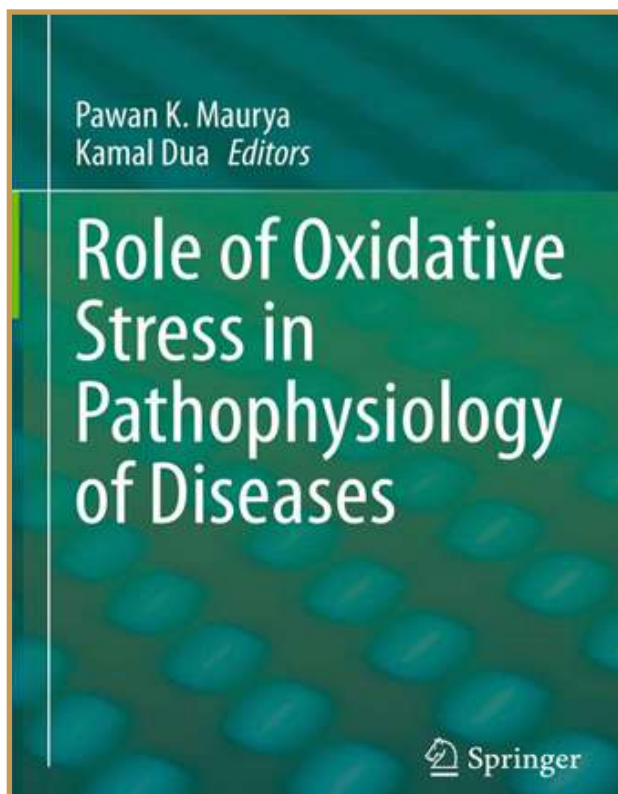
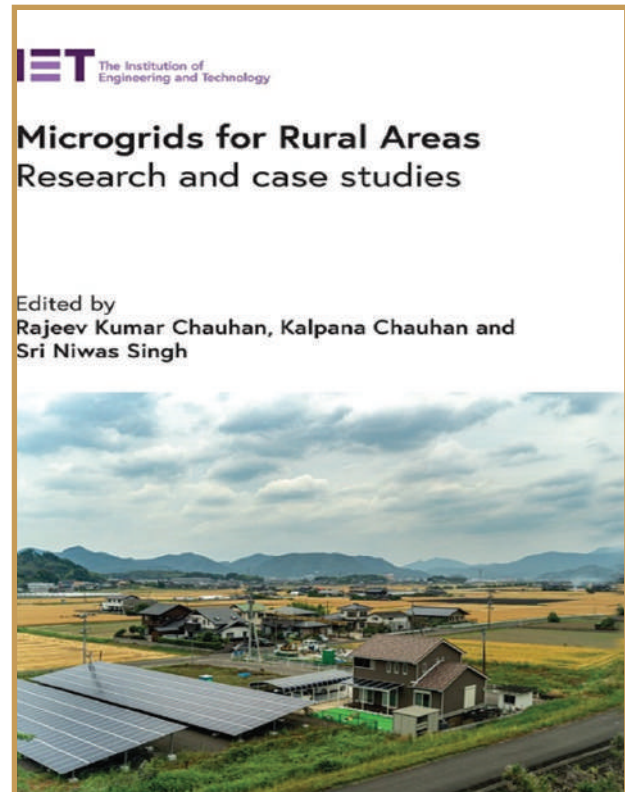
Compare the document counts for up to 15 funding sponsors.



*Source: SCOPUS



Books of the year





Patents

| Department | Name of Faculty | Title of Patent | Patent No. |
|-----------------------------------|--|--|---------------|
| Patents Filed | | | |
| Biotechnology | Dr. Kashyap Kumar Dubey | A rapid method for detection of urea in milk and potable water | 201911027350 |
| Biotechnology | Dr. Kashyap Kumar Dubey | A strip based method for detection of urea in milk | 201911027351 |
| Chemistry | Dr. Harish Kumar | A method for instantaneous purification of impure drinking water using nanotechnology | 202011031257 |
| Chemistry under SOET | Dr. Kalpana Chauhan | A Gold Nanoparticles Based Colorimetric Sensor | 202011011974 |
| Computer Science Engineering | Dr. Rakesh Kumar | Matchstick Holder | 330225-001 |
| Patents Published | | | |
| Biotechnology | Dr. Kashyap Kumar Dubey | A paper strip based test for detection of Aminoglycosides group of antibiotics in water and wastewater | 2017110044714 |
| Biotechnology | Dr. Kashyap Kumar Dubey | A rapid method for detection of Ammonium Sulphate adulteration in Milk | 201811026150 |
| Chemistry | Dr. Harish Kumar | A method of removal of pollutants from atmosphere using green technology | 202011009196 |
| Electrical Engineering Under SOET | Dr. Manish Kumar/ Dr. Muralidhar Nayak Bhukya | Machine learning based cybersecurity system for smart grids | 202011051586A |
| Electrical Engineering, SoET | Dr. Muralidhar Nayak Bhukya | High performance dye sensitized solar cell using novel polymer quasi solid electrolytes | 202011024263A |
| Electrical Engineering, SoET | Dr. Muralidhar Nayak Bhukya | Standalone photovoltaic inverter with reduced harmonic distortion | 202041016825A |
| Electrical Engineering, SoET | Dr. Muralidhar Nayak Bhukya | System for maximum power point tracking based on shading pattern identification | 202041016824A |



Major Academic Achievements

- a. **Massive Open Online Course (MOOC):** Massive Open Online Course (MOOC): The Central University of Haryana has developed the first MOOC on “Food Microbiology and Food Safety” (a four-credit course) under the Principal Investigatorship of Prof. R. C. Kuhad, Vice-Chancellor. The University has successfully completed the third cycle (from January to May 2020) with an enrolment of 3617 learners from more than 50 prestigious universities/ institutes and food industries. The UGC has selected this MOOC for Translation and Subtitling in 10 different Indian Languages and after successful translation it will be offered on the SWAYAM Platform. Dr. Tejpal Dhewa is the Course Coordinator of this MOOC.

- b. **Food Safety Training and Certification (FoSTaC) Centre**

Food Safety and Standards Authority of India (FSSAI), Ministry of Health and Family Welfare, Government of India approved FoSTaC training Centre of Central University of Haryana as an empaneled training partner for conducting Food Safety Training and Certification (FoSTaC) in the area of food safety on behalf of FSSAI. FoSTaC is a participatory program of training and capacity building, designed to enhance public awareness in the area of food safety. During the year, the Centre trained students from various disciplines of life sciences as “Food Safety Supervisor (FSS)-Manufacturing”. The trained students will be preferred for employment in food industry or food service sector.

- c. Introduced UGC approved two-credit Course on "**Research and Publication Ethics**" for 250+ Ph.D./M.Phil. students enrolled in 2020-21 in 25 departments. The researchers are being trained by the experts from the prestigious research and educational institutions of India.

- d. Facilitated 'remote access' to many of the 'campus based' subscribed e-resources (databases of e-journals/e-books) by using the INFLIBNET's INFED service.

- e. **90 students qualified UGC/CSIR (NET/JRF) during the year (in only one chance).**



Awards and Recognitions

| Sr. No. | Recipients | Designation | Award/fellowship received from Government/recognized bodies |
|---------|------------------------|---------------------|--|
| 1 | Prof. R.C. Kuhad | Vice Chancellor | Included in the top 2% scientists globally in the field of Biotechnology by Stanford University Survey |
| 2 | Prof. R.C. Kuhad | Vice Chancellor | Member, UGC's New Education Policy-2020 implementation committee on research, innovation and Ranking |
| 3 | Prof. R.C. Kuhad | Vice Chancellor | Chairman, UGC Committee for developing guidelines on examinations and academic calendar for the Universities in view of Corona Pandemic and subsequent lockdown. |
| 4 | Prof. R.C. Kuhad | Vice Chancellor | Member, Executive Council, Maharishi Dayanand University, Rohtak (2020-2022). |
| 5 | Prof. R.C. Kuhad | Vice Chancellor | Member, Executive Council, Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonapat, Haryana (2020-2022). |
| 6 | Prof. Neelam Sangwan | Professor | Fellow, National Academy of Sciences (NASI), Scientific Expert of different Committees and many other govt. agencies. |
| 7 | Prof. Deepak Pant | Professor | Member of Delhi Research Implementation and Innovation Cluster an Initiative of Govt. of India |
| 8 | Dr. Kalpana Chauhan | Associate Professor | Recognition: Young Professionals IEEE Industry Applications Society (IAS) |
| 9 | Dr. Payal Chandel | Associate Professor | Indo Pacific Best Teacher Award |
| 10 | Dr. Ajay Kumar Bansal | Associate Professor | Fellow, The Institution of Engineers (India) |
| 11 | Dr. Vikas Garg | Associate Professor | Fellow, The Institution of Engineers (India) |
| 12 | Dr. Namrata Dhaka | Assistant Professor | Member, Organization for Women in Science for the Developing World (a programme unit of UNESCO) |
| 13 | Dr. Rajesh Kumar Gupta | Associate Professor | Best Researcher Award in Science and Engineering felicitated by CUH |
| 14 | Sh. Pawan Kumar | Private Secretary | Best Performer Non-teaching Staff felicitated by CUH |
| 15 | Sh. Rishipal | Private Secretary | Best Performer Non-teaching Staff felicitated by CUH |
| 16 | Sh. Sanjay Kumar | Assistant | Best Performer Non-teaching Staff felicitated by CUH |
| 17 | Sh. Dinesh Kumar | Assistant | Best Performer Non-teaching Staff felicitated by CUH |
| 18 | Sh. Balbir Singh | UDC | Best Performer Non-teaching Staff felicitated by CUH |
| 19 | Sh. Sandip Kumar | LDC | Best Performer Non-teaching Staff felicitated by CUH |
| 20 | Sh. Ashish Sahu | LDC | Best Performer Non-teaching Staff felicitated by CUH |



Glimpses of Foundation Day/Annual Award Ceremony 2020



Glimpses of Foundation Day/Annual Award Ceremony 2020





National/International Seminars/Webinars/ Conferences/Workshops

| Sr. No. | Date | Department | Title |
|----------------------|--------------------------------------|------------------------|--|
| International | | | |
| 1 | 24th May, 2020 | Electrical Engineering | DCS and its Application to Power Sector |
| 2 | 28th May, 2020 | Electrical Engineering | Smart DC Microgrid Solutions for Remote Areas Electrification |
| 3 | 22nd June, 2020 | Civil Engineering | Water Resources: Challenges and Research Needs |
| 4 | 18th July, 2020 | Psychology | Mental Health and You: Learn to be Responsible |
| 5 | 24th August, 2020 | Electrical Engineering | Inauguration ceremony of IEEE SB Central University of Haryana |
| 6 | 25th August, 2020 | Microbiology | Social and Ethical Dimensions of Gandhian Philosophy |
| 7 | 6th September, 2020 | Electrical Engineering | Power of Professional Networking and Volunteering |
| 8 | 15th September, 2020 | Electrical Engineering | Engineers: Ideas, Innovation and creativity |
| 9 | 16th November, 2020 | Electrical Engineering | International Webinar on Haryana Technology Conclave |
| 10 | 20th November, 2020 | Electrical Engineering | Vocal 4 Local Summit 2020 |
| 11 | 6th December, 2020 | Electrical Engineering | The Fingerprint |
| 12 | 20th December, 2020 | University | India International Science Festival |
| National | | | |
| 1 | 25th January, 2020 | Chemistry | Intellectual Property Rights: Awareness and Implementation |
| 2 | 5th March, 2020 | Biochemistry | National Conference on Bharat Ka Vigyan Mein Yogdan |
| 3 | 13th March, 2020 to 17th March, 2020 | Electrical Engineering | Application of Optimization Techniques in Power System using GAMS and MATLAB Software |
| 4 | 12th May, 2020 | Civil Engineering | Recycling of Construction and Demolition Waste: Conversion of Waste to Wealth |
| 5 | 14th May, 2020 | Yoga | Need of Yoga education for Yoga therapy |
| 6 | 15th May 2020 | Yoga | Relevance of Patanjali Yogasutra in daily life |
| 7 | 16th May 2020 | Yoga | A Brief Introduction to the Hatha Yogic Tradition and Practices: A Historical Overview |
| 8 | 17th May 2020 | Yoga | Two systems of Patanjali Yogasutra - Kriya and Ashtanga Yoga and their efficacy |

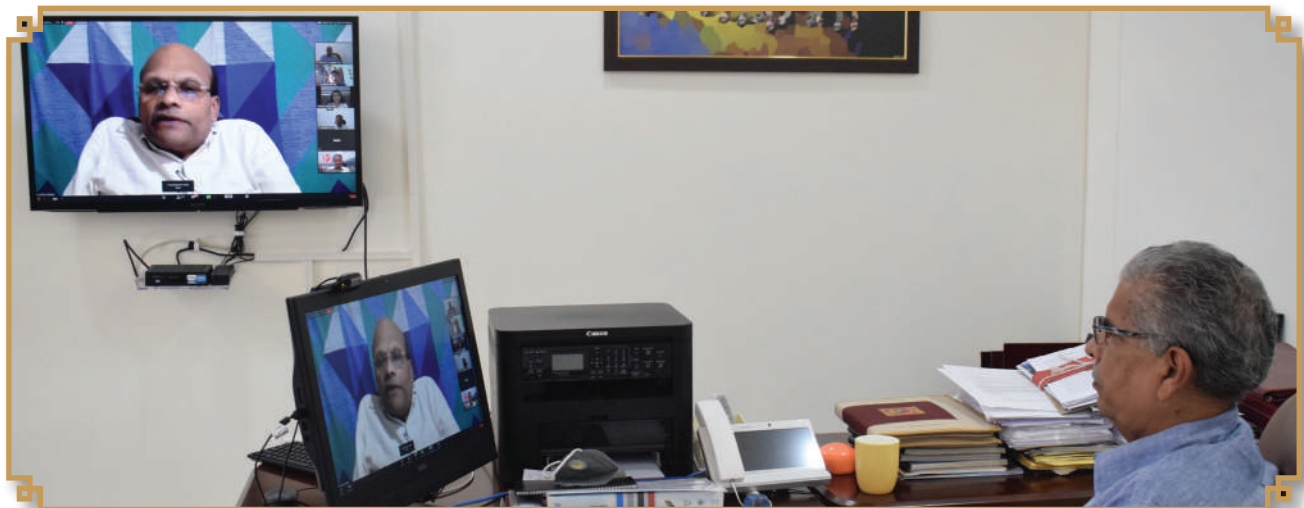


| Sr. No. | Date | Department | Title |
|---------|---|------------------------------------|--|
| 9 | 19th May, 2020 | Psychology | The Role of Psychologist during the Spread of Pandemic |
| 10 | 28th May, 2020 | Civil Engineering | Bituminous Mix: Materials and Design |
| 11 | 28th May, 2020 | Electrical Engineering | Project Based Learning: A Different Way to Explore Engineering |
| 12 | 29th May, 2020 | English Communication under SOET | Industrial Expectations: Cut a Caper |
| 13 | 31st May, 2020 | Yoga | Efficacy of Shrimadbhagavadgita in the current scenario (Corona-virus Covid-19 pandemic) |
| 14 | 10th June, 2020 | Psychology | Emerging Mental Health Issues during Covid-19 Pandemic |
| 15 | 12th June, 2020 | Psychology and School of Education | Techniques in Qualitative Research |
| 16 | 13th June, 2020 | Journalism and Mass Communication | Fake News and Fact Verification with Reference to COVID 19 |
| 17 | 19th June, 2020 | Psychology | Responsive Counseling |
| 18 | 21st June, 2020 | School of Education | Yoga for Community Health |
| 19 | 21st June 2020 | Yoga | Relevance of Ashtanga Yoga in day to day life |
| 20 | 24th June, 2020 | Psychology | Counselling: A Bhagavad Gita Perspective |
| 21 | 26th June, 2020 to 1st July, 2020 | School of Education | Faculty Development Programme on Development and Delivery of MOOCs and E-Content |
| 22 | 20th July, 2020 | Economics | Post Covid-19: Revival of Indian Economy |
| 23 | 28th July, 2020 | Commerce | Strategy for Managing personal Finance including Mutual Funds during and after COVID -19 |
| 24 | 5th September, 2020 | School of Education | Teacher and Teacher Education: NEP 2020 |
| 25 | 10th September, 2020 | Psychology | World Suicide Prevention Day |
| 26 | 2nd October, 2020 | Psychology | World Without Anger: Psychological Perspectives of Gandhian Philosophy |
| 27 | 3rd October, 2020 | Psychology | The Gandhian Values and their Contemporary Relevance |
| 28 | 4th October, 2020 to 10th October, 2020 | Psychology | Mental Health Awareness Week |
| 29 | 7th October, 2020 | Microbiology | Bio-entrepreneurship: A Step towards Aatm Nirbhar Bharat |
| 30 | 15th October, 2020 | Nutrition Biology | Computational Gastronomy: Leveraging Artificial Intelligence for Data |
| 31 | 16th November, 2020 | Journalism and Mass Communication | National Press Day 2020 |
| 32 | 8th December, 2020 | Microbiology | Probiotics and Immunity |
| 33 | 13th December, 2020 | Geography | Space Technology for Science-Policy Interface: Indian Experiences |



| Sr. No. | Date | Department | Title |
|----------------------|------------------------------------|------------------------------|--|
| 34 | 14th December, 2020 | Sociology | Brainstorming in Social Sciences for Aatmanirbhar Bharat and Global Welfare |
| Institutional | | | |
| 1 | 14th February, 2020 | हिंदी | बालमुकुंद गुप्त और उनकी पत्रकारिता |
| 2 | 2nd March, 2020 to 7th March, 2020 | Sanskrit | 6 Day Spoken Sanskrit Workshop |
| 3 | 12th May, 2020 | Central Library | Online training on Manupatra |
| 4 | 15th May, 2020 | Central Library | Training session on EBSCO (BSC, ERC, HTC and EMC) |
| 5 | 20nd May, 2020 | Computer Science Engineering | IoT-Cloud based System and Large Scale Data Handling |
| 6 | 23rd May, 2020 | School of Education | Women in STEM |
| 7 | 1st June, 2020 to 30th June, 2020 | Central Library | Writing Great Research Papers' series and 'Managing your publication process' series |
| 8 | 3rd June, 2020 | Central Library | Online training program on Indiatat.com |
| 9 | 3rd June, 2020 | School of Education | Context based Pedagogy and Assessment in Higher Education |
| 10 | 3rd June, 2020 and 5th June, 2020 | Central Library | An Overview of Research Ethics and Plagiarism Issues And Introduction to ETDs and Shodhganga / Shodhgangotri |
| 11 | 8th June, 2020 | Biochemistry | Covid 19; Unlocking with Science |
| 12 | 25th June, 2020 | Central Library | Webinar on J-Gate |
| 13 | 26th June, 2020 | Central Library | Training on Lexis Nexis |
| 14 | 13th July, 2020 | Central Library | Training on MATLAB Campus-Wide License Onboarding and Portal |
| 15 | 22nd July, 2020 | Central Library | Training on access to e-collection of Taylor and Francis |
| 16 | 27th July, 2020 | Central Library | Virtual Training: Database Foundations (Primavera Software) |
| 17 | 4th August, 2020 | Central Library | Your essential guide to literature reviews |
| 18 | 10th August, 2020 | Central Library | Online Training on URKUND: Plagiarism Detection Software |
| 19 | 12th September, 2020 | School of Education | Constructivism in Online Teaching Learning Process |
| 20 | 17th September, 2020 | School of Education | Teacher Internship: Issues, Concerns and Contribution towards School to Work Transition |
| 21 | 24th September, 2020 | Biochemistry | Effective Poshan (Nutrition) during Pandemic COVID 19 |
| 22 | 12th November, 2020 | Biochemistry | The transformative power of Diversity and Inclusion- Topic in Lecture Series |

Glimpses of Virtual Events





Major Social Outreach, Cultural and NSS/YRC Activities

- ❖ Republic Day and National Voter's Day Celebration on 26th January 2020
- ❖ Survey at adopted villages by NSS Volunteers sponsored by Unnat Bharat Abhiyan on 25th - 28th January, 2020
- ❖ Celebration of Annual Inter-University Cultural Fest (Spandan-2020) and Foundation Day, 25-26th February, 2020
- ❖ Annual Alumni Meet, 27th February, 2020
- ❖ National Science Day, 27th February, 2020



- ❖ Sixth Convocation of the University, 28th February, 2020
- ❖ Participated in Awareness campaign for protection from Corona Virus (COVID-19 and aware 10 citizen daily through phone calls or social media on 20th March, 2020
- ❖ Awareness campaign for protection from Corona Virus (COVID-19 and aware 10 citizen daily through phone calls or social media on 20th March 2020
- ❖ Distribution of Mask and Sanitizer at adopted villages on 21st March 2020
- ❖ Aarogya Setu App Awareness Campaign of NSS, Central University of Haryana on 8th April, 2020
- ❖ Campaign to raise awareness about downloading Arogya Setu App on 10th April 2020
- ❖ Poster making competition on the theme of COVID-19 awareness on 12th April, 2020
- ❖ COVID-19 Awareness through All India Radio, Hisar by Dr Dinesh Chahal Coordinator YRC, Central University of Haryana on 13th April, 2020

- ❖ Online COVID-19 Awareness and form COVID-19 Task Force of YRC Volunteers by Hon'ble Vice Chancellor Prof R.C. Kuhad on 14th April, 2020
- ❖ YRC Volunteers, Central University of Haryana preparing masks on large scale for the villagers on 14th - 25th April, 2020
- ❖ Online poetry competition based on Corona awareness on 17th April, 2020
- ❖ Organized online poetry competition based on Corona awareness by NSS, CUH on 17th April, 2020
- ❖ Organized webinar on "Fighting Climate change through Diet" on 20th June, 2020
- ❖ YRC Unit, Central University of Haryana organized photography and videography competition on theme "Yoga with Family" on 21st June, 2020.
- ❖ Celebrated independence day in the University.



- ❖ Selection of NSS Volunteer, Hemant Kumar in Republic Day Parade -2021 in December, 2020



Our student, Hemant (second from left) representing the University in Republic Day Parade-2021

Vice Chancellor, Prof. R.C. Kuhad felicitating Hemant



राजभाषा

राजभाषा हिन्दी के प्रचार-प्रसार को बढ़ावा देने के उद्देश्य से विश्वविद्यालय में राजभाषा अनुभाग 01 जनवरी, 2014 से कार्यरत है। राजभाषा नियमों के अनुसार विश्वविद्यालय में सभी नामपट्ट एवं दिशा-सूचक द्विभाषी लगाए हैं। इसके अतिरिक्त सभी विभागों एवं अनुभागों की मुहरे भी द्विभाषी बनवाई गई हैं। विश्वविद्यालय की वेबसाइट द्विभाषी डिजाइन की गई है। विश्वविद्यालय के महत्वपूर्ण दस्तावेज जैसे- सूचना बुलेटिन, वार्षिक प्रतिवेदन एवं अन्य रिपोर्टें द्विभाषी जारी की जाती हैं। संसद में प्रस्तुत होने वाले सभी कागजात द्विभाषी ही तैयार किए जाते हैं। इसके अतिरिक्त विश्वविद्यालय के सभी कम्प्यूटरों में हिन्दी में काम करने की सुविधा उपलब्ध है। विश्वविद्यालय राजभाषा हिन्दी के प्रचार-प्रसार की दिशा में विशेष प्रयास कर रहा है, जिसके अंतर्गत प्रत्येक शुक्रवार सम्पूर्ण कार्यालयीन कार्य हिन्दी में करने की व्यवस्था लागू की गई है।

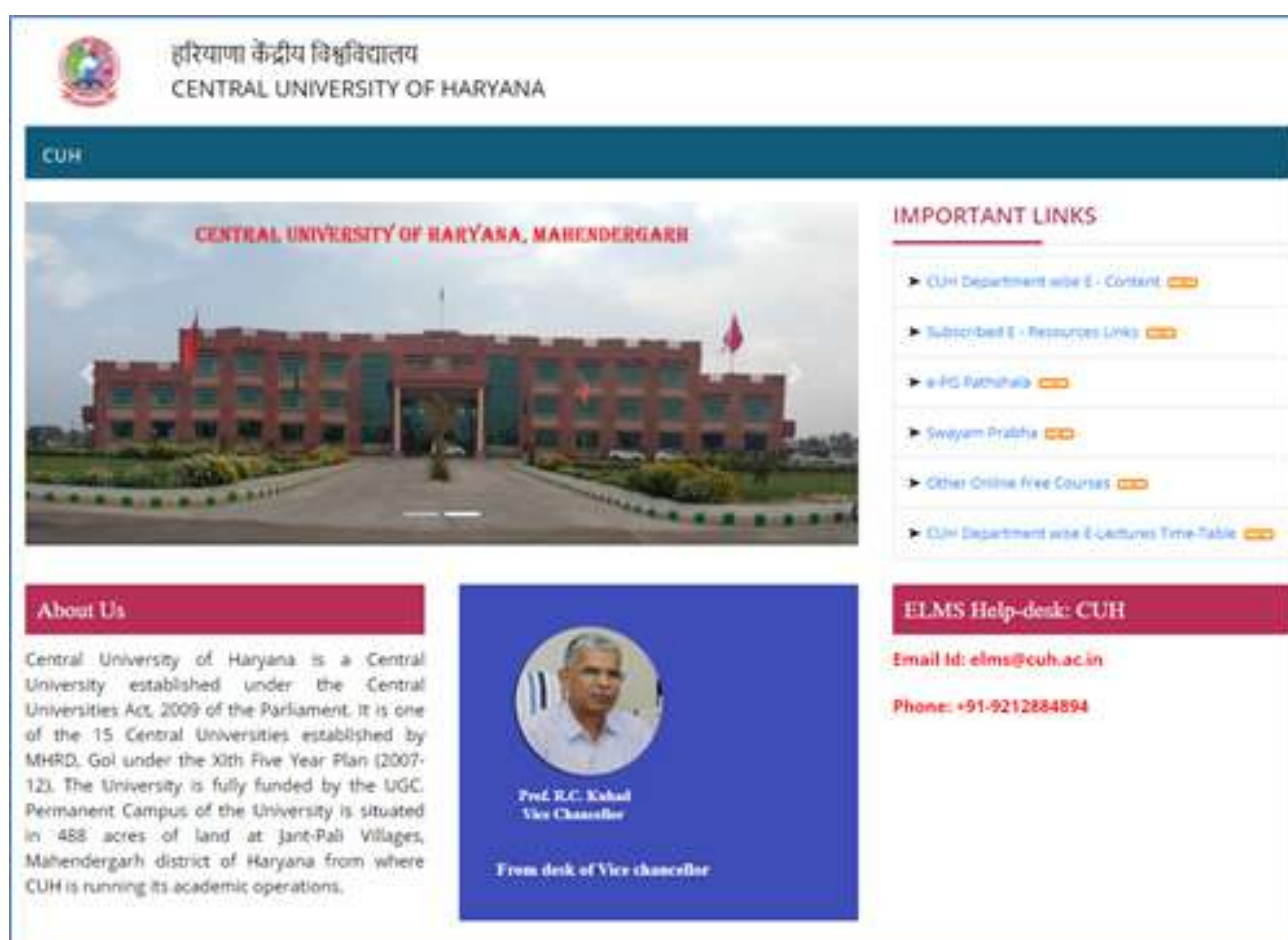
कोरोना महामारी के कारण इस वर्ष विश्वविद्यालय में हिन्दी 14 सितम्बर, 2020 को हिन्दी दिवस के अवसर पर 'आधुनिक भारत और हिन्दी' विषय पर ऑनलाइन विशेषज्ञ व्याख्यान का आयोजन किया गया। इसके साथ-साथ हिन्दी दिवस के अवसर पर स्वामी दयानंद सरस्वती, रविन्द्र नाथ ठाकुर, पण्डित मदन मोहन मालवीय, सुमित्रानंदन पन्त जैसे महापुरुषों की सूक्तियां सोशल मीडिया व वेबसाइट के माध्यम से प्रचारित की गईं। कार्यालयीन कामकाज में हिन्दी के प्रयोग को बढ़ावा देने हेतु राजभाषा अनुभाग द्वारा प्रत्येक तिमाही में विश्वविद्यालय राजभाषा कार्यान्वयन समिति की बैठक व कार्यशाला आयोजित की जाती हैं, ताकि विश्वविद्यालय में हिन्दी में काम करने में किसी प्रकार की समस्या न हो। इसके अतिरिक्त हिन्दी के प्रचार-प्रसार को बढ़ावा देने हेतु राजभाषा विभाग, गृह मंत्रालय, भारत सरकार द्वारा नगर राजभाषा कार्यान्वयन समिति नराकास महेंद्रगढ़ का गठन किया गया है। हरियाणा केंद्रीय विश्वविद्यालय नराकास, महेंद्रगढ़ का समन्वयक कार्यालय है।



विश्वविद्यालय की राजभाषा कार्यान्वयन समिति की अध्यक्षता करते कुलपति प्रो. आर.सी. कुहाड़

Digital Initiatives

- ❖ Launched a special webpage on the University website through which faculty/students can access all e-resources;



The screenshot displays the website for Central University of Haryana (CUH). At the top, the university's name is written in Hindi and English. Below this is a navigation bar with 'CUH' on the left. The main content area features a large photograph of the university building. To the right of the photo is a section titled 'IMPORTANT LINKS' with several menu items: 'CUH Department wise E - Content', 'Subscribed E - Resources Links', 'e-PG Pathshala', 'Swayam Prabha', 'Other Online Free Courses', and 'CUH Department wise E-Lectures Time-Table'. Below the photo is an 'About Us' section with text describing the university's establishment and funding. To the right of the 'About Us' section is a portrait of Prof. E.C. Khandelwal, Vice Chancellor, with the text 'From desk of Vice chancellor'. On the far right, there is an 'ELMS Help-desk: CUH' section with contact information: 'Email Id: elms@cuh.ac.in' and 'Phone: +91-9212884894'.

- ❖ Launched online Learning Management System (LMS) on the University server which comprises e-contents of 35 subjects and 325+ Courses;
- ❖ Apart from students utilizing resources available in the University eLMS, the students are also utilizing 120+ e-content/e-documents prepared by the faculty;
- ❖ A dedicated cloud-based server has been facilitated to the faculty members for recording and uploading self-prepared video lectures;
- ❖ 52 video lectures were developed by the faculty using 5 virtual classrooms which are also being utilized for creation and development of MOOCs, video-audio recordings, and live webcast of lectures;
- ❖ IRINS portal is being maintained with academic/research profiles of the faculty which dynamically calculates the research output of the University;



- ❖ Turnitin and Urkund software are best utilized by the students/faculty to produce plagiarism free scholarly literature.
- ❖ INFLIBNET's INFED service has been successfully launched to facilitate a single remote platform to access 20+ e-resources (e-journals/e-books) subscribed by our Central Library;
- ❖ Successfully installed 151 IP based IPABX telecom system to provide telephone services to all the departments/Branches/Sections of the University;
- ❖ Successfully completed the entire admission process in online mode for all the departments;
- ❖ Facilitated smooth conduct of online proctored examination of 2447 students of the University;
- ❖ University campus is completely wi-fi enabled and a separate Wi-Fi Park has also been developed;
- ❖ Entire process of recruitment, admissions and hostel registration is being carried out in online mode;
- ❖ For strong protection against the external cyber-attacks, 200+ access points with cyberoam firewall facility been provided;
- ❖ Campus has been fully networked via high end intelligent CISCO switch that processes round the clock 1 GBPS leased line;
- ❖ Procured Cisco Webex cloud-based software for conducting online meetings/seminars/conferences and also extensively utilized free tools such as Microsoft Teams, Google Meet, etc.;
- ❖ Conducted 500+ online lectures/webinars/conferences during the pandemic period;



- ❖ Automated the Conference Hall, Vice-Chancellor's Office and Vice-Chancellor's Camp Office by procuring the state-of-the-art video conferencing hardware/facilities;
- ❖ University auditorium utilizes services of Panapto software for webcasting and recording of events;
- ❖ Regularly updating all urgent information required to the statutory bodies/Ministry of Education via various portals i.e. Central University portal, and NHERC portal, whenever required;

Central University Of Haryana

Remote/Off-campus Access to Subscribed E-resources

The Central Library subscribes to the following e-resources through e-ShodhSindhu and from the publishers. The remote/off-campus access service (24/7) is provided to the faculty, researchers and students to access the e-resources from outside the University campus.

Note:

(a) To access Group-A e-resources, unique and individual username and password are already shared through email with each faculty, researchers and students. Those who have not got may contact our staff.

(b) To access Group-B e-resources, contact your faculty for the common login credentials.

Group-A: Subscribed e-resources

Access the following e-resources with your individual login credentials (See 'Note' above): Central University Of Haryana Off-Campus Access

- Emerald
- Springer Link

Group-B: Subscribed e-resources

Access the following e-resources with the common login credentials (See 'Note' above)

- CRISIL
- EBSCO
- E-Books
- ScienceDirect (Elsevier)
- EPWRF
- IndiaStat
- LexisNexis
- Manupatra

Contact Us

- Dr. Santosh C. Hulagabali**
University Librarian
library@cuh.ac.in
- Dr. Vinod Kumar Singh**
Assistant Librarian
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- Mr. Naresh Kumar**
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- INFED Team**
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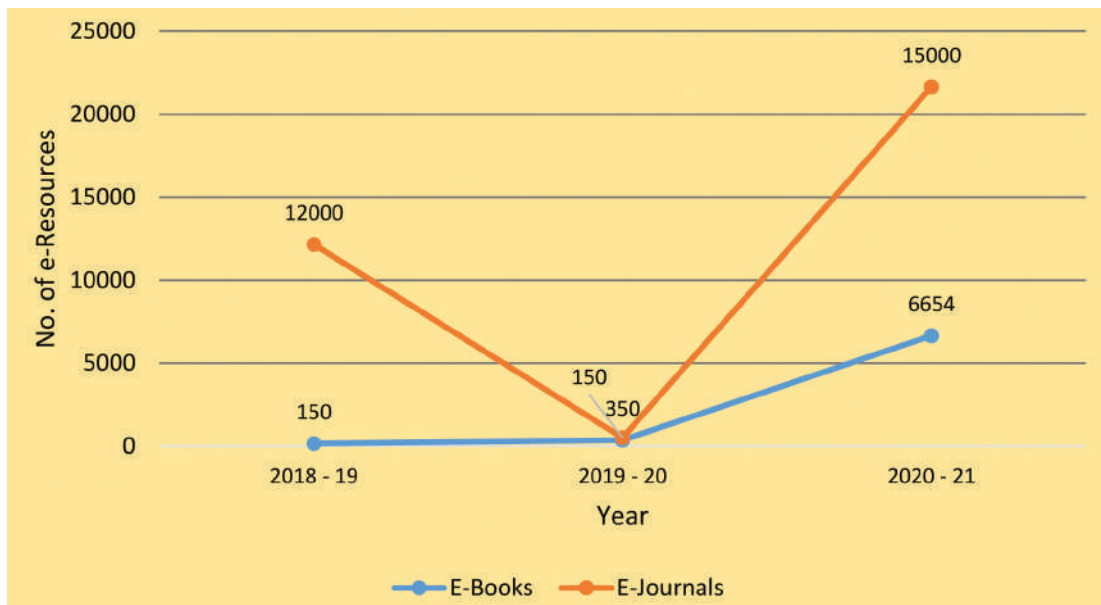


Central Library

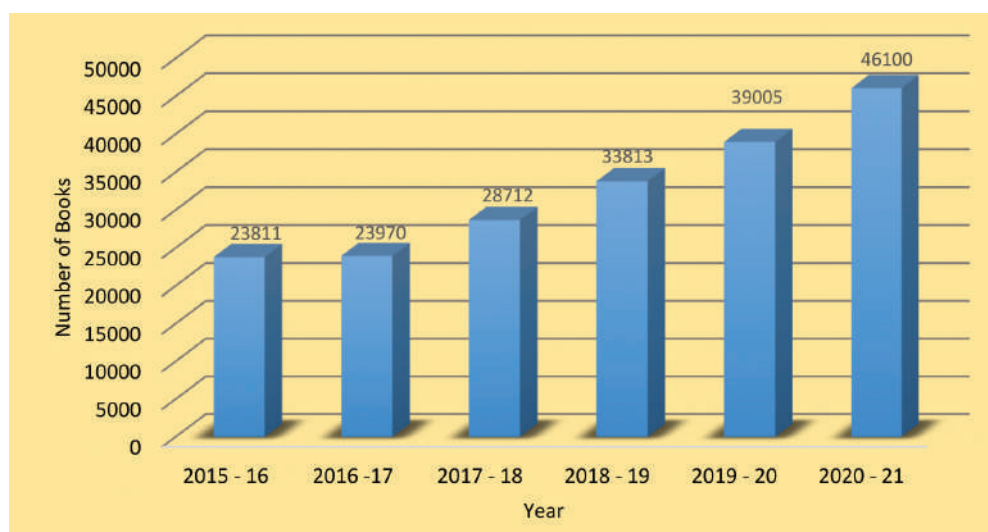
Library collection development in 2020

- ❖ Books : 7095
- ❖ e-books : 6654
- ❖ e-journals : 15000+
- ❖ Databases : 16
- ❖ Software : 7

Trajectory of growth



Subscribed e-resources

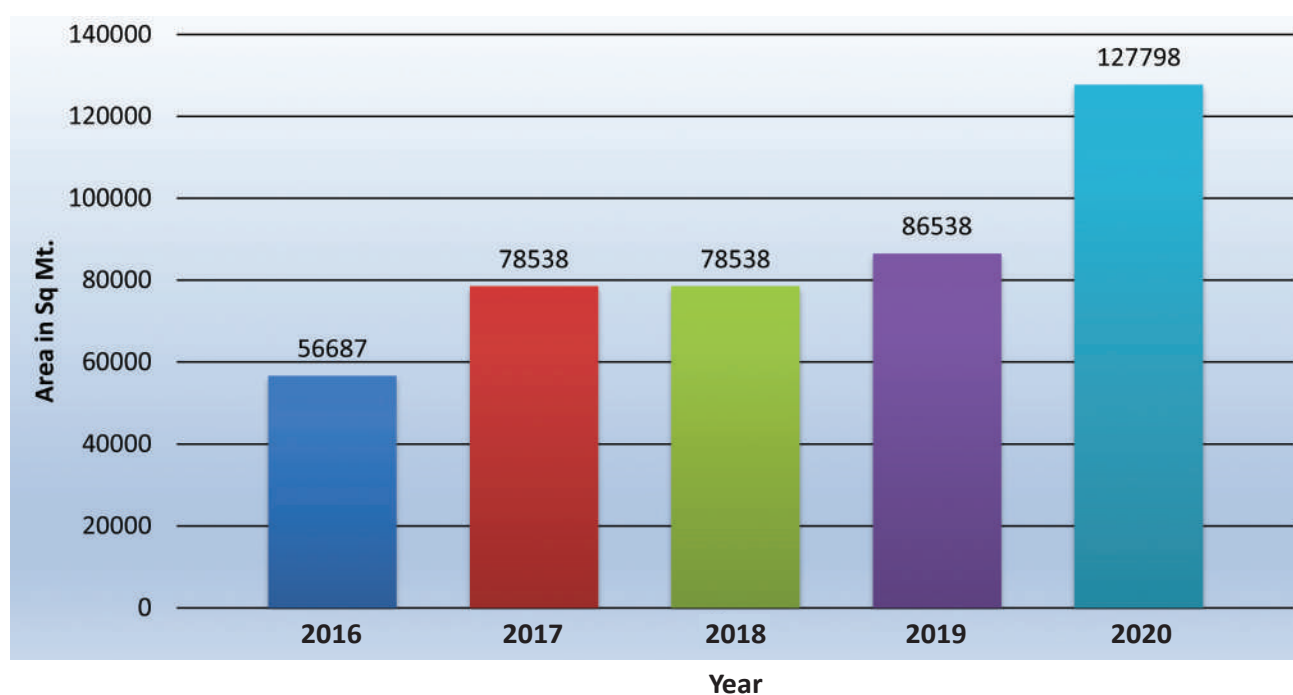




Infrastructure

Covered Area of the Ongoing Projects

| Sr. No. | Name of work | Covered area (in sq. m.) |
|--------------------|---------------------------------------|--------------------------|
| 1 | 24 Nos. Type-III Staff Quarters | 2576 |
| 2 | 24 Nos. Type-V Staff Quarters | 5534 |
| 3 | Boys' Hostel (Capacity 630 students) | 15660 |
| 4 | Girls' Hostel (Capacity 630 students) | 15660 |
| 5 | Health Center | 630 |
| 6 | Guest House | 1200 |
| Total Covered Area | | 41260 |





Virtual Inauguration of Buildings of the University by Hon'ble Union Minister of Education, Shri Ramesh Pokhriyal 'Nishank'



Inauguration of Sports Complex of the University by Hon'ble Governor of Goa, Shri Satyapal Malik



Best Practices

- ❖ The University has made it a tradition to declare the results within 15 days of conduct of the end-semester examinations.
- ❖ We are one of the leading universities to upload the certificates and degrees of the students on National Academic Depository.
- ❖ CUH is one of the fifteen participating universities to conduct Central Universities Common Entrance Test (CUCET) for admission to various programmes of study.
- ❖ Adoption of UGC (Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutions) Regulations, 2018 and UGC (Minimum Standards and Procedure for Award of M.Phil./Ph.D. Degrees) Regulations, 2016.



- ❖ Turnitin Software for mandatory plagiarism check before submission of M.Phil/Ph.D. dissertation/thesis.
- ❖ Introduction of Annual Best Researcher Award and the Award for Best Non-teaching employee on the basis of exemplary contribution in respective fields.
- ❖ Annual Academic Audit as the regular feature of the University.
- ❖ GIAN programmes as the regular feature of the University.
- ❖ Online admissions, registration and counselling; cashless transactions; dynamic website and optimum use of ICT in day-to-day administrative communications for transparent Governance.
- ❖ Robust Students Counselling Mechanism with the provision of faculty advisor to each individual student.
- ❖ Notification of Academic Calendar prior to commencement of admission process. The dates of annual functions like Foundation Day, Annual Cultural Fest, Convocation and Annual Science Day have been fixed, and organised accordingly.
- ❖ University has started the practice of annual presentation of the departments for sharing the best practices.
- ❖ Remote online proctored examinations conducted with 99% attendance of students in the examinations;



- ❖ New sub domains and web pages such as eLMS, e-resources portal, Indian Research Information Network System (Faculty Profiles), INFED remote access platform, etc. are integrated/created to aid online learning;
- ❖ 500+ Ph.D./M.Phil. students are provided official email IDs for academic communication;
- ❖ State-of-the-art video conferencing hardware/facility is developed in the Conference Hall, Vice-Chancellor's Office and Vice-Chancellor's Camp Office;
- ❖ Completely self-reliant dedicated server is facilitated for accessing eLMS which comprises 260+ courses of 34 subjects;
- ❖ Institutional Biosafety committee (IBSC) duly approved by DBT, Government of India for the use of hazardous microorganisms, genetically engineered (GE) organisms and cells, and products thereof for research, manufacture and applications;
- ❖ University has constituted Institutional Human Ethics Committee (IHEC) to work on research participants involving biological materials and data including health and behavioral attributes on human subjects;
- ❖ Installed full body disinfectant chamber at the entry of University gates;
- ❖ Audio-visual archival of folk heritages of adopted villages of the university;
- ❖ Prepration of documentaries on social advertisements, research projects on local issues and crucial issues like voting awareness, sensitization, health awareness etc.;
- ❖ University was the first one to start Tele-counseling on its website right from March 15, 2020 with the name "कोरोना से जंग मनोविज्ञान के संग". We also joined hands in providing the same through various platforms like, Manodarpan, (the Government of India Psychological Helpline), Indian Academy of Health Psychology, Rehabilitation Council of India, along with tele-counseling. We extended our help to deal with the problem of migrant labourers at Mahendergarh by providing counseling services to them;
- ❖ All the students are registered on university LMS system and more than 50% of the e-resources are shared using the LMS system. All the sessional, quizzes etc. are being conducted using LMS system;
- ❖ Orientation Programme conducted for the newly admitted students at the outset of the Academic Session in each department;
- ❖ The speed limit of vehicles is restricted (30 KM/hour) in campus to reduce vehicular and dust pollution;
- ❖ University has banned the use of single use plastic in office, residential complexes and hostels;
- ❖ The University campus has installed solar panels on the roofs of the building that helps in reducing the electricity bills. Use of renewable energy like solar power helps in conserving environment;

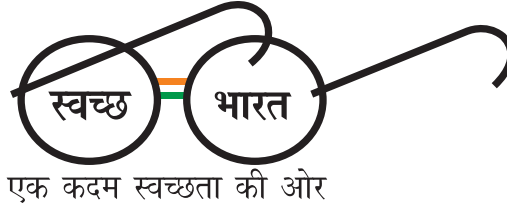
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Glimpses of Sixth Convocation





बेटी बचाओ, बेटी पढ़ाओ



हरियाणा केंद्रीय विश्वविद्यालय
CENTRAL UNIVERSITY OF HARYANA
(Established vide Act No. 25 (2009) of Parliament)
(NAAC Accredited 'A' Grade University)
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