

GOVERNMENT DEGREE COLLEGE RAMGARH



Department of Environmental
Sciences

About College



Government Degree College Ramgarh affiliated to University of Jammu was established in 2019 by Higher Education Department, Government of Jammu & Kashmir under the Patronage of Jenab Talat Parvez Rohella, Commissioner Secretary, Higher Education Department.

College is offering 11 Core subjects along with equal number of Skill Enhancement Courses to train students for leadership role in Local, National and Global Communities. We are proud of our Vision and Mission which represents long term commitment to prepare students for future perspective by imparting quality education.

We are emerging as an educational institution of excellence with flow of knowledge in all spheres of life so that the students may think beyond unthinkable and see beyond unseen. As the College is situated in rural area, knowledge is imparted to rural society by adopting innovative methods & techniques which aids in the economics upliftment and well being of the masses.



Department of Environmental Sciences

- ✓ The Department of Environmental Sciences was operational in the year 2019 with the establishment of the college only.
- ✓ In the light of the dynamic nature of the discipline besides its tremendous growth in many of its sub-disciplines, the department offers Ability enhancement courses as well as Skill enhancement courses which are designed to impart the practical knowledge of the subject matter.
- ✓ The department has diversified interest in various earth, atmospheric and biological processes. Linkages between Natural Resources and Social as well as environmental issues give an additional dimension to department's interest, making the course relevant. Therefore, the curriculum has components of disciplinary areas such as Ecosystem, Environmental Pollution, Solid Waste Management and environmental hazards and management.



Aims and Objectives

- ✓ To provide a comprehensive understanding of our environment and provide economical and effective solutions to environmental problems.
- ✓ Sensitize the students towards the need for keeping the environment clean and conserve natural resources
- ✓ To develop an aptitude towards science and nature
- ✓ study the impact of environmental pollution on human health
- ✓ focuses on learning ecological renewal and pollution control be it in water, soil, or air. Water and wastewater management, solid and hazardous waste management, including radioactive, biological waste management, and environmental hazards.



Faculty Profile

Dr. Anjali Bala, Lecturer

Ph.D., UGC NET, JKSET

Academic background:

- ✓ **Ph.D. (Environmental Sciences), Central University of Jammu, J&K (July, 2021)**
 - [Thesis title: Chemical Assessment of Groundwater of Jammu Province and its relationship with the Lithology of the area]

- ✓ **M.Sc. (Environmental Sciences), Central University of Jammu, J&K (2014-16) [CGPA 8.77 on 0-10 scale]**
 - [Dissertation Title: Sea Surface Temperature (SST) Variability Analysis using satellite derived data for Indian Ocean]





Journal publications:

- Kouser, B., **Bala, A.**, Verma, O., Prashanth, M., Khosla, A., & Pir, R. A. (2022). Hydrochemistry for the assessment of groundwater quality in the Kathua region, Jammu and Kashmir, India. *Applied Water Science*, 12(7), 1-22.
- **Bala, A.**, Singh, U.K, Mehta, P., Dhar, S. and Pathania, D. (2019). Evaluation of hydrogeochemical processes and chemometrics of the groundwater in the Vijaypur block of Samba district, J&K, India. *International Journal of Higher Education and Research* 9(1), 152-172
- **Bala, A.**, and Mehta, P., (2018). Hydrogeochemical Characterization and evaluation of Groundwater quality in Hiranagar Tehsil of Kathua District, J&K, India. *Vimal Vimarsh*. 1(3), 164-172



Book Publications

- ✓ In June 2019, Published a book titled as “**Medicinal and aromatic Plant Diversity of Central University of Jammu: A Handbook**” as the first Publication of the university for the copyright work L68453/2017.

Book chapters published

- ✓ **Bala, A., Mehta, P., and Singh, U.K., (2021) “Water Pollution and Water Crisis”. Facets of Environmental Sciences. Shree Publishers and Distributors. pp 30-62. (ISBN: 978-93- 90674-05-3)**
- ✓ **Bala, A., and Dubey, R., (2021) “Solid waste management and Existing Appropriate Technologies”. Agriculture and Forestry: Current Trends, perspective, Issues-IV. Immortal Publications. pp 424-440. (ISBN:978-93- 5437-486-9)**
- ✓ **Bala, A., and Dubey, R., (2020) “Impact of Air Pollution and Abatement technologies”. Global Environmental Problems. Redshine Publications (ISBN: 978-93-89840-77-3)**



Conference Proceedings:

- ✓ Extended abstract Accepted in National Symposium on Environmental BARC (NSE-20) held during December 13-15, 2018 at IIT Gandhinagar. Gujarat
- ✓ Oral paper presentation in National Seminar on Geology and Climate of Himalayan (NSGCH) organized by Department of Geology, University of Jammu during 15th – 16th march 2018
- ✓ Oral paper presentation in 14 JK Science Congress organized by University of Jammu during December 20-22, 2019
- ✓ Oral paper presentation in National conference on Climate Change, Societal Consequences and mitigation: Future Vision on the topic Estimation of total Organic Carbon and textural Analysis of Tawi river Sediments in Jammu District held on 26th -27th April, 2018
- ✓ Poster presentation in 17th Indian Science Communication Congress (ISCC_2017) held during December 21-22, 2017 in New Delhi, India



Workshop attended

- ✓ Successfully completed the training course on Ground water Development, Management and Local Issues organized by Central groundwater board (CGWB) from 06-03-2019 to 08-03-2019
- ✓ Successfully completed one week Faculty Development Program on research Methodology by HRDC –Shri Mata Vaishno Devi University, Katra held during December 4 -8, 2017
- ✓ Participated in “one day consultation workshop on Environmental Issues of Jammu and Kashmir: Need for Cooperation” held on 14th January, 2017 by JKENVIS.
- ✓ Participated in two day Workshop on Startup and Incubation held during January 21 and 22, 2019 at JKEDI, Bari Brahmana, Jammu.
- ✓ Successfully completed an online course on “Remote Sensing and GIS application on carbon Forestry” conducted by IIRS during February 16, 2017 to March 10, 2017.
- ✓ Successfully completed the online course on “Global Navigation Satellite System and Geographical Information System” conducted by IIRS during September 17, 2018 to October 26, 2018



IPR Granted:

- IPR titled as “Ecofriendly Detox Clay Pot (E-DCP)” was granted with copyright registration number L-82402/2019 from Register of copyright, Government of India.
- Govt. of India, Diary No: 9644/2021, titled as 2I’s leads to 3rd Eye(Innovation + Incubation = Entrepreneurship) FUTURE VISION: ATMANIRBHAR BHARAT



Teaching Methods

Offline/ Online

- Subject books available in the college library
- Marker and White Board Method
- Lecture Method
- Lecture cum Demonstration
- Discussion
- Assignment Project Method
- Multimedia Projector
- Wise app/ Zoom meeting/ whatsapp group/ google classrooms
- Links for National Digital Library are made available to students for easy access of wider choice of resources



Courses being taught

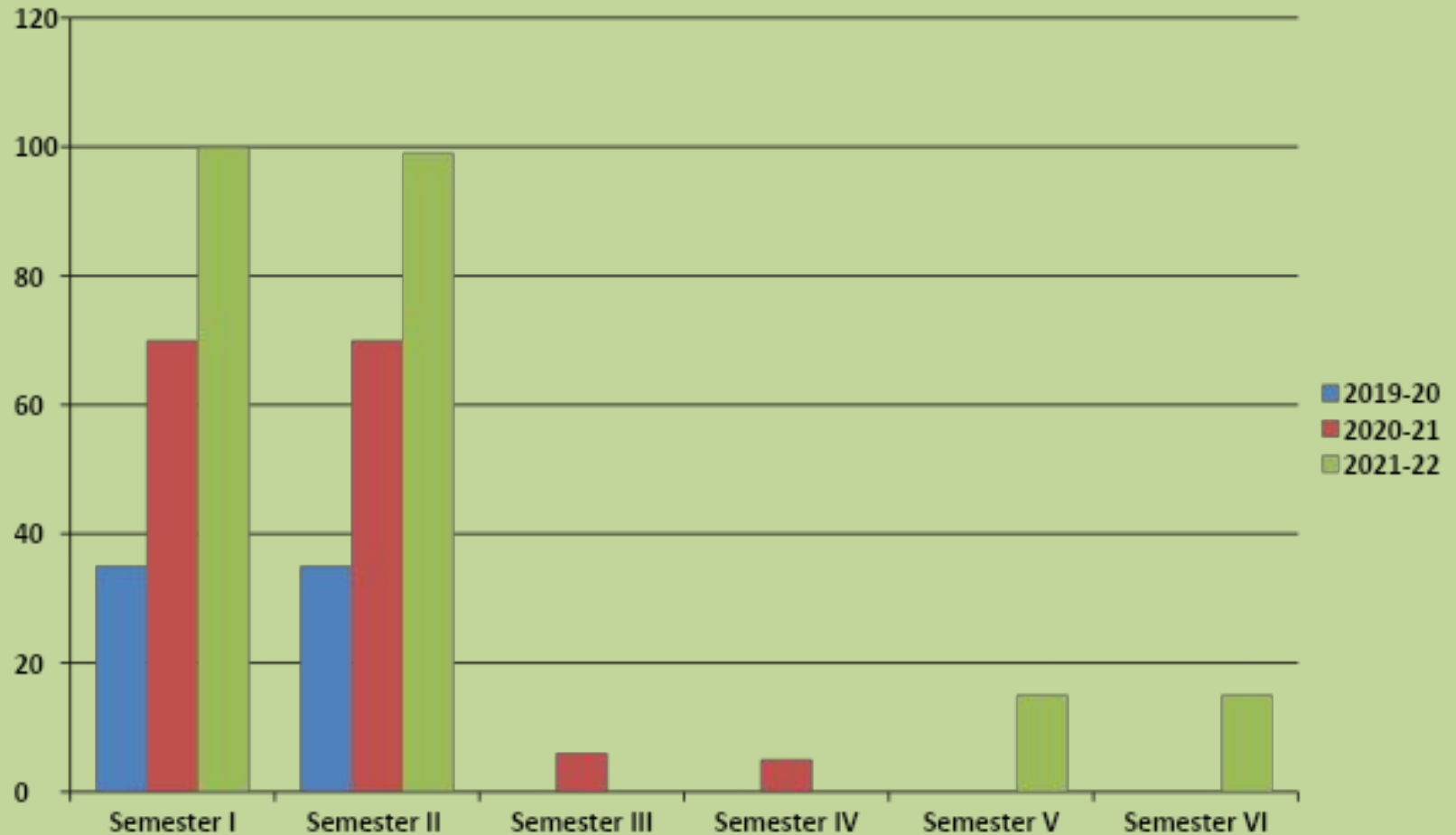
Semester	Course Code	Course Title
I	UESTS 104	The Environment and Ecosystem (AECC)
II	UESTS 204	Environmental Pollution And Disaster Management (AECC)
III	UESTS 301	Solid Waste Management (SEC)
IV	UESTS 401	Environmental Impact Assessment (SEC)
V	UESTS 501	Environmental pollution and management (SEC)
VI	UESTS 601	Environmental Hazards (SEC)



Number of students enrolled

SEMESTER	2019-20	2020-21	2021-22
SEM I (AECC)	35	70	100
SEM II (AECC)	35	70	99
SEM III (SEC)	-	06	-
SEM IV (SEC)	-	06	-
SEM V (SEC)	-	-	15
SEM VI (SEC)	-	-	15

Total number of students enrolled





Future Vision

- ✓ To be a leading and renowned Department for producing graduates
- ✓ through value based quality education with innovative means and collaborative interdisciplinary approaches who can address current and evolving environmental challenges for self –reliance, sustenance and betterment of society
- ✓ To adopt state- of- the- art technologies to optimize use of teaching and research for enhancing knowledge , skills and entrepreneurship amongst the young generations

Departmental Activities



On 05-06-2020, “World Environment Day” A plantation drive was held in the College by EVS Department. Prof (Dr.) Meeru Abrol Principal GDC Ramgarh, Samba was the chief guest on the occasion. Also a National level online essay writing competition was organized on the topic “Save Environment Save Earth”. The first prize was bagged by Aniket Gupta, GDC Udhampur.



To commemorate World Environment Day, Govt. Degree College Ramgarh organized the Door-to-Door Campaign to create awareness among the general public about waste management. Waste management includes the processes and actions required to manage waste from its inception to its final disposal. The staff, as well as the students of the college wholeheartedly, participated in this campaign.



To commemorate World Environment Day, Govt. Degree College Ramgarh organized a series of activities viz. Door-to-Door Campaign on 'Waste Management' on 30.05.2022, poster making competition on 'Water Management' on 02.04.2022 and Cleanliness Drive at Campus on 04.05.2022.



GDC Ramgarh organizes one day seminar on Intellectual Property Rights

Excel Express Correspondent

JAMMU, MAY 26: Department of Political Science, Government Degree College Ramgarh, today organized a one day seminar on Intellectual Property Rights. The event was organized under the aegis of Prof. (Dr.) Meera Abrol, Principal of the college. Dr. Pinky Rakesh, Department of Economics hosted the Seminar. The formal welcome inaugural address was delivered by Prof. (Dr.) Meera Abrol, Principal of the College. She said intellectual property rights are any and all rights associated with intangible assets owned by a person or company and protected against use without consent. Intangible assets refer to non-physical property, including right of ownership in intellectual

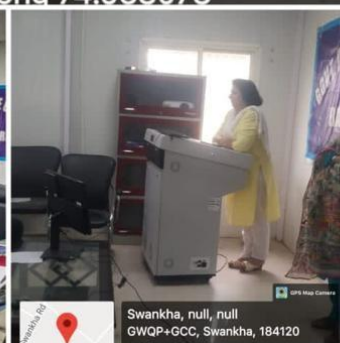
property. The resources Person Dr. Narinder Singh Assistant Professor, Department of Sociology, University of Ladakh, Kargil Campus Khamtiang in his presentation discussed Types of Intellectual Property. There are four main types of intellectual property rights, including patents, trademarks, copyrights, and trade secrets. Owners of intellectual property frequently use more than one of these types of intellectual property law to protect the same intangible assets. For instance, trademark law protects a product's name, whereas copyright law covers its tagline. He also shed light on some examples of violations of intellectual property rights. The significant violations of intellectual property consist of infringement, counterfeiting, and misappropriation of trade secrets. Violations of intellectual property include: Creating a logo or name meant to confuse buyers into thinking they're buying the original brand. Recording video or music without authorization or copying copyrighted materials even on a photocopy, for private use. Copying another person's patent and marketing it as a new patent. Manufacturing patented goods without a license to do so. Since intellectual property can be bought, sold, or leased out, it offers many protections equal to real property ownership. Likewise, similar remedies exist. A dispute may end with property confiscation, an order of monetary damages, or cease and desist orders.

Department of Political Science organizer of this very seminar in his presentation said that intellectual property rights (IPR) have been defined as ideas, inventions, and creative expressions based on which there is a public willingness to bestow the status of property. IPR provide certain exclusive rights to the inventors or creators of that property, in order to enable them to reap commercial benefits from their creative efforts or reputation. In the end an open question answer session was organized in which besides Prof. Seema Sharma, Dr. Shamsher Lal, Sahil Bhat, Fayaz Ahmad and students interacted with each other and resource persons. Concluding remarks and vote of thanks was delivered by Dr. Eknath Rani, Department of Hindi.

Dr. Bashir Ahmad Sheikh,

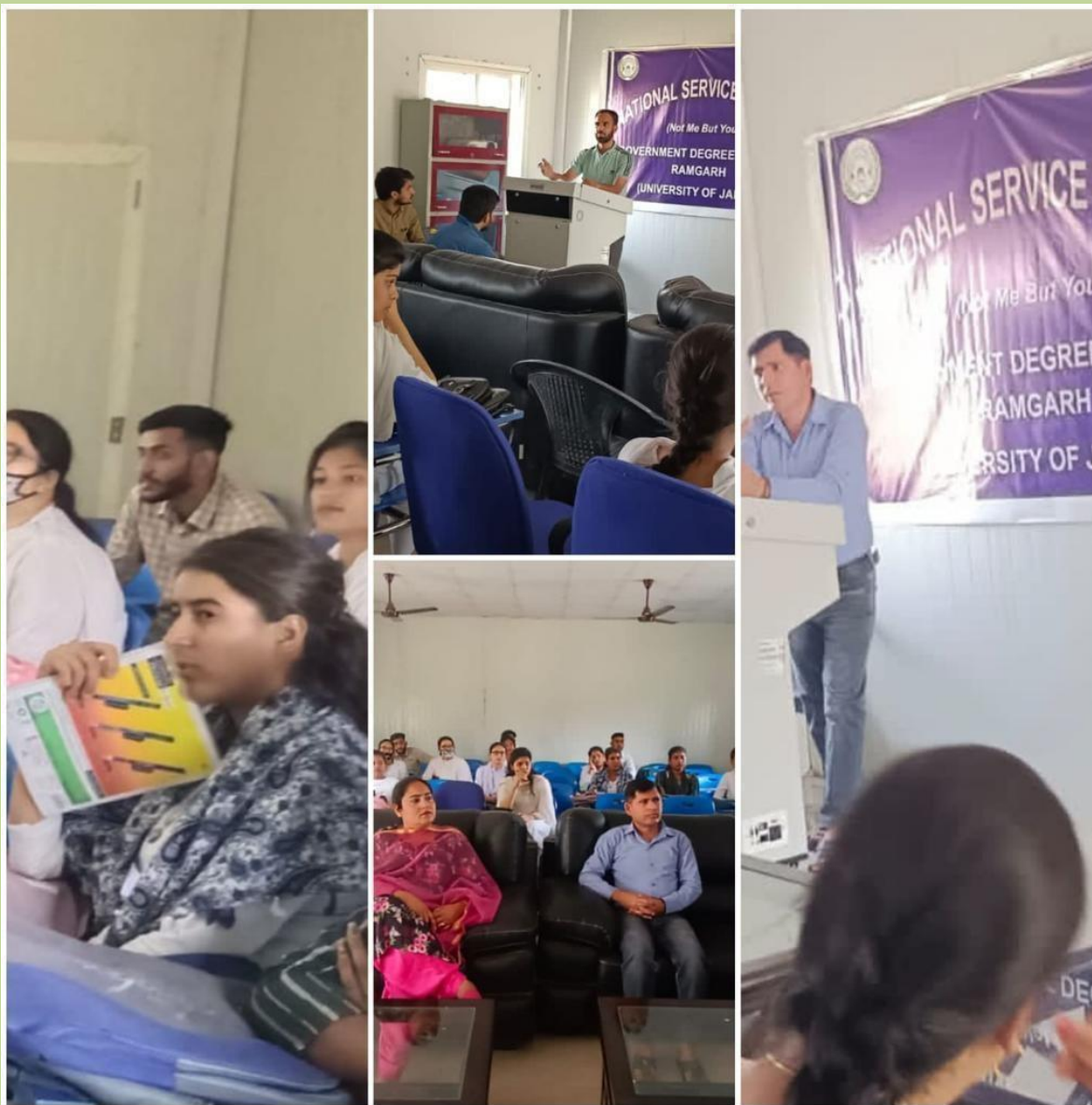
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Government degree college Ramgarh organizes one day seminar on Intellectual property rights to educate students about the IPRS, Copyright and patents to be filed for novel ideas.



GDC Ramgarh organized Poster making competition on “World Earth Day” NSS Unit (Prabha) of Government Degree College Ramgarh celebrates “World Earth Day” by organizing Poster making competition under the guidance of Dr. Meeru Abrol, Principal of the College. The main objective of the competition was to make youth aware of making healthy environment on the Earth for the betterment of the society and to pay tribute to the Mother Earth. The students were made sensitive about climate change and global warming.



On 18-08-2020, Tree Plantation Drive was conducted by Red Ribbon Club of the College in collaboration with Social Forestry Department, J & K. The officials present on the occasion were Monider Pal Gupta, Regional Director, Department of Social Forestry; Hitashi Sharma, DFO Jammu, Department of Social Forestry; Romesh Chander Sharma, Range Officer Vijaypur; S. Amrik Singh, Block, Vijaypur, Samba along with Principal of college Prof.(Dr.) Meeru Abrol and staff of the college.



On 30-09-2019, a cleanliness drive to keep the campus and surroundings neat and clean was conducted under the guidance of Dr. Sandeep Kumar, Convener, College Development Committee. A pledge was taken by staff and students for the cause.

Glimpse of Press Release for various Activities

GDC Ramgarh organized a One Day Workshop on the topic "Rural Entrepreneurship Development Programme."



NIN NEWS SERVICE RAMGARH, FEB 01

Govt. Degree College Ramgarh in collaboration with "Mahatma Gandhi National Council of Rural Education", Department of Higher Education, Ministry of Education, Government of India organized a One Day Workshop on the topic "Rural Entrepreneurship Development Programme." Prof. (Dr.) Meeru Abrol, was the chief Guest on the occasion. Mrs. Shivali Choudhary, Coordinator REDC UT of Jammu-Kashmir, was the Resource Person in the workshop.

The Program began with the welcome address by Prof. Risha Kumari, Assistant Professor, Department of Punjabi. Mr. Shivali Choudhary, Resource person for the workshop elaborated the challenges of Rural entrepreneurship. She highlighted business ideas and various activities performed by villagers through creative ideas in her Presentation. She acquainted the students with the various Rural Entrepreneurship programs to become self-reliant.

Prof. (Dr.) Meeru Abrol, Principal of the College, stressed upon the need for the adoption of such methodology that helps in promoting entrepreneurship opportunities in manufacturing and marketing rural products. A large number of participants attended the workshop. Students actively participated in the interactive session and cleared their doubts. Dr. Sandeep Kumar, Assistant Professor, Department of Statistics, provided the technical assistance to make the event successful.

GDC Ramgarh organizes series of activities under Clean India programme

RAMGARH, DEC 22

Govt. Degree College Ramgarh, Jammu & Kashmir, organized a series of activities under the Clean India programme. The activities were organized to create awareness among the students and faculty about the importance of maintaining a clean and hygienic environment.



A view of Clean India programme.

The activities included a quiz competition, a poster competition, and a group discussion. The students participated enthusiastically and showed a keen interest in the programme.

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Thank you for attention!
Save the environment!