

Best Practices Adopted by Rayat Bahra University

- 1. Industry-Academia Collaborations**
- 2. Environmental Sustainability**

Best Practice-1

Title: Industry-Academia Collaborations

Initiatives: Memoranda of Understanding, conferences, workshops, symposia, publications of joint research, industrial and scientific visits, industrial/technical training, etc.

The Context:

To improve the knowledge and experiences of students and professors, Rayat Bahra University has a number of collaborations and signed Memorandums of Understanding with various outside academic bodies and industries. This has helped to advance the organization's overall development. Industry-academia collaboration is crucial to closing the gap to enhance the employability, and students, universities, organizations, and the government must all mobilize their efforts and work together to make this happen. By integrating the business world into its academic programs, Rayat Bahra University has been setting standards. These partnerships are carried out in a number of ways, including Memorandums of Understanding, conferences, workshops, symposia, joint research publications, industrial and scientific visits, industrial/technical training, etc. The University has signed Memorandums of Understanding (MOUs) with more than 40 businesses and international universities to act as a platform for achieving higher research standards as well as a way of celebrating research across a variety of fields by bringing together intellectuals and professionals to exchange helpful ideas and discourse on a particular topic of scholarly significance and interest.

Objectives:

1. The University's international collaborations serve as a platform to offer educational opportunities for students by involving them in training, research, and service as well as an environment for discovery and creative accomplishment. They also support a range of outreach activities that address the needs of professional, civic, social, cultural, and economic development in the context of a global community.
2. These industry partnerships help them develop the analytical and problem-solving skills that make them excellent employees. Due to the fact that each individual is different and has distinct skills, students discover their potential during training to succeed in their chosen fields.
3. Improved curricula: To create industry-oriented curricula to meet business needs and boost employability.
4. Capacity Building: Students improve and develop the abilities, processes, instincts, skills, and resources that organizations and communities require to endure, adapt, and flourish in a world that is changing quickly.
5. Insight into business procedures: There is a significant disconnecting between academic and business practices. Faculty and students who participate in industrial-academic collaborative initiatives can comprehend industry practices. They can study and compare the variations between business and academic processes thanks to this.

6. Students from a variety of backgrounds are exposed to workplace ethics, industry requirements, training, and personality development as well as life skills like leadership and inter- and intra-personal communication that improve their employability during internships and training in the workplace and faculty through both academic and extracurricular activities.
7. To further research and development: These collaborations help students develop their research skills in line with the department's research priorities. Increase communication between students.

Evidence of Success:

The benefits of these collaborations at Rayat Bahra University are mentioned below:

1. These partnerships encourage businesses to support internal research and development initiatives. In order to design and develop novel processes and possible products, industrial scientists work with university researchers to identify current research that may be helpful.
2. These partnerships aim to promote the exchange of academics, students, and staff as well as a coordinated program of research, curricular development, institutional growth, and information dissemination. Each partner institution's goals and the relationship between the partners will be strengthened by the connectivity that has been created.
3. The technical capabilities of the students are improved by industry-oriented curricula. Some Indian institutions have found that internships are an excellent way to connect the academic and business worlds. Students can learn about the business sector in addition to internships by participating in a variety of industry-related programs.
4. Research and development is an essential component of higher education and plays a big part in facilitating research, education, and training as well as in creating an exceptional academic environment for students' educational experiences. These activities give students the chance to establish a solid foundation and get a comprehensive understanding of many facets of their fields. The University participates in this by hosting several international and national conferences, symposia, workshops, and other events that will aid in the dissemination of the most recent scientific and technical information to the global scientific community.
5. The University has started the process of collaborating with reputable research journals and cooperative projects to publish joint research.
6. Numerous research projects and consultancies have been begun and finished for the purpose of fostering a scientific, technical and research temperament in the students, keeping in mind that academia and industry need to acknowledge each other's capabilities and work towards greater trust and communication. The management of biomedical and agricultural waste, intellectual property rights, mushroom cultivation, and other related topics are important areas for partnership.
7. International Partnerships: By bringing together academics and industry leaders to discuss a particular subject of scholarly importance and interest, it has been used as a platform to both achieve higher standards of research and to celebrate research in many different fields. (Attached as Annexure-I)

Problems Encountered: According to industry perspectives, the industry is hesitant to provide financial support for the education program under a pandemic situation. Industry is not sensitive to the importance of educational programs; thus the university will ensure a significant contribution. Academic viewpoints cannot guarantee that opportunities are sufficient to meet the needs of the industry.

Best Practice-2

Title: Environmental Sustainability

Objectives:

1. To protect the environment and conserve natural resources while creating alternative energy sources.
2. To advocate for the use of renewable energy sources like solar and biomass-based electricity
3. Reducing, Reusing, and Recycling
4. Effective handling of liquid and solid waste on campus
5. Safe biomedical and electronic waste disposal on campus
6. To implement different water conservation measures on campus, such as rainwater collection and eco-friendly activities.
7. Make the campus greener and cleaner by starting numerous tree-planting drives on and around the campus.
8. Organizing numerous tree-planting initiatives and workshops to raise awareness in both urban and rural areas.

The Context:

In order to protect finite resources for future generations, environmental sustainability is crucial for sustainable development. Although it is not inherently possible for humans to be sustainable, it is nevertheless within their power to become so. True sustainability will never be attained if we as individuals do not work toward it and if we do not accept our responsibility as earth stewards. We must acquire the skills necessary to sustainably feed, clothe, and amuse ourselves. Otherwise, we run the risk of failing on all fronts. By planning numerous activities, faculty, staff, and other stakeholders are made more aware of the need to live a sustainable lifestyle that inevitably results in environmental preservation.

The practice:

Rayat Bahra University has initiated a number of projects and initiatives that would promote environmental sustainability. Both staff and students have access to public transportation for trips "To and Fro" from nearby places. The university has enacted a policy to continue supporting public transportation, boost bicycle and pedestrian use, and restrict the use of motor vehicles on campus. The personnel is now more likely to split their vehicles between the city and the institution.

Education and Research:

The undergraduate curriculum is required to include instruction in environmental science and technology in order to educate students about the environment. Different diploma and certificate programs are offered to develop students' abilities and promote environmental sustainability.

Students and staff are active in numerous research and creative projects that were started at the campus level at the postgraduate and doctoral levels.

Evidence of Success:

The importance of implementing green practices on campus is demonstrated by the lush green environment. By putting in rainwater harvesting systems on campus, water is being conserved. Utilizing recycled rainwater, the campus's lawns are watered. With the aid of a sewage treatment plant, waste water produced by the university's dorms and several schools is routinely recycled.

Vermicomposting is used to ensure the proper disposal of biodegradable solid waste produced on campus. E-waste and biomedical waste generated are safely transported and

disposed of by the vendors, and their efforts are recognized with study articles in reputable journals. A difference can be made by picking a sustainable college or encouraging sustainable behavior

Problem Encountered:

The university has supplied employees and students with transportation between the city and campus in an effort to limit the usage of private vehicles, but it still needs to promote carpooling and public transportation and upgrade its facilities to enable it.

For this university, creating sustainable energy for the future still presents a challenge that calls for both creativity and investment. Academic staff and students have also been urged to switch from traditional educational and research techniques and content to more environmentally friendly ones.

The following necessary steps are taken to keep the university campus environment friendly:

Energy conservation

- The classroom glass windows provide for the best possible use of natural light.
- CFL lighting systems are used in place of the conventional lighting systems. Turning off electrical appliances when not in use.
- Reducing the use of elevators as much as feasible and encouraging staff and students to take the stairs wherever practical.

Water harvesting

- **Rainwater harvesting:** Small channels are utilized to send water in one direction during the rainy season so that it can be used to irrigate the university campus, gardens, and lawns.

Efforts for carbon neutrality

- The university has put in place suitable parking arrangements.
- All cars on campus must have an emission test certificate.
- Tobacco products and cigarettes are strictly prohibited within 100 meters of the campus.

Plantation

- The University organizes a periodical NSS camp to inculcate the values of plantation among the students and faculties.

Vermi composting

- Earthworms are used in the vermicomposting process, which produces enriched compost. It is one of the simplest ways to create high-quality compost from agricultural waste.
- University has a vermicomposting unit where biodegradable waste from the campus is combined and used as a biofertilizer in the campus lawns and gardens.

Waste management

- ❖ Waste Segregation-Installation of Bins, Degradable and non-degradable waste.
- ❖ Proper Disposal and management of biomedical waste, E waste, and any other hazardous/Chemical waste *etc.* to minimize environmental degradation.
- ❖ Use of mobile phones in campus is prohibited.
- ❖ Seminars and class teachings are given for the proper waste disposal.
- ❖ Use of plastic bags is discouraged in the campus.

Effluent treatment and recycling plant

A well-equipped sewage water treatment plant is set to treat waste water in the Institution.

Water conservation facilities:

The rainwater harvesting system is in the institute in the form of Recharge pits, Recharge Shafts, Filter embedded Tanks, Water reservoirs, Wastewater recycling system, proper channelization of the rainwater to be harvested *etc.*

Recognition /Certification for environment friendliness:

- The Department of Higher Education, Government of India, has designated Rayat Bahra University as the "District Green Champion" for SAS Nagar, Mohali for the academic year (2020–21). The award was given to representatives of The University by ADC (Development) Dr. Himanshu Aggarwal, IAS, in his office. The Sawachhta Action Plan Committee was successfully established, and best practices in the areas of sanitation, hygiene, waste management, water management, energy management, and greenery management were adopted and put into practice.





Vermi- Compost

Composting with vermi-culture

Earthworms are used in the vermi-composting process, which produces enriched compost. It's one of the easiest methods for turning agricultural waste into high-quality compost. The University maintains a vermin-composting unit where biodegradable waste from the campus is mixed and applied to the campus lawns and gardens as a biofertilizer.

Solid Waste Management



A holistic approach to resource management, zero waste places a strong emphasis on recycling, reusing, and reducing. We must buy goods made of recycled materials if we want recycling to benefit everyone. It is less necessary to use nonrenewable resources when materials that have already been used are recycled. Reusing materials instead of creating "virgin" materials saves more forests and uses less energy. The goal of Zero Waste is to: Boost recycling, Minimize waste lower your use, Ensure that the products are made to be recycled, repaired, or reused. Make an investment in eco-friendly products.

On the RBU campus, liquid waste management is being carried out.

- The sewage treatment plant, or waste recycling system, manages the wastewater produced by the university's many operations.
- The treated water is then used for green belt development and washing on campus.





Hydroponics

A type of gardening called hydroponics uses mineral-rich, nutrient-rich fluids to produce plants without the need for soil. This technology is used by RBU for on-campus agriculture and gardening. Spread the word about the value of conserving water at all societal levels in order to deal with its scarcity. To alter our mindsets and actions in order to maximize the efficiency of water use



Rain –water harvesting

- The process of gathering and preserving rainwater through the use of man-made apparatuses designed to catch and hold down rainfall for later use is known as rainwater harvesting.
- Water is directed through tiny channels in a single direction during the rainy season and utilized to irrigate gardens, lawns, and the university campus.
- Rainwater harvesting is the most economical and ecologically sustainable way to get water. It keeps campus water from running out.
- Rainwater collected can be directly utilized for recharging or it can be filtered, stored, and used in many other ways.



Recharge pits/tanks/barrels constructed/installed



Bore-well/Open well recharge: Bore-well (350metricton of water is used every day)





HIV/AIDS Awareness campaign in collaboration *with Microbiologists Society, India and Red Ribbon Club, 04/10/2023

Under the patronage of Vice Chancellor, RAYAT BAHRA UNIVERSITY, Department of life sciences organized HIV/AIDS Awareness campaign in collaboration with Microbiologists Society, India and Red Ribbon Club, Mohali by organizing Poster Making and Rangoli making competitions on the theme. Students done wonderful job by making creative Rangoli on the theme and demonstrated it very well.



**Rayat Bahra University celebrated International Yoga Day 2023 on the theme
Yoga For Vasudhaiva Kutumbakam to inspire people to live a healthy life
style. Dr. Neha Chanana**

Public Health Professional EX-UNICEF, Ex-NIHFW, PGIMER demonstrated the various Yoga techniques. Mr. Subhash Chander, Yoga expert, Chandigarh also demonstrated Yoga techniques. Students from Neighbourhood schools and faculty members participated in the Yoga.

Vice Chancellor Prof. (Dr.) Parvinder Singh highlighted the significance of Yoga and motivated the students to do it regularly. He stated that INDIA is the country who has been practicing yoga since ages but in 2015, 21st June designated as International Yoga Day. Dr. Simerjit Kaur, Dean Student's welfare welcomed the guests and students. She stated that yoga plays significant role in maintaining the balance between mind and body and for holistic well being of all. It emphasized the importance of physical and mental well-being and the role of Yoga in achieving that balance. All the Participants were given refreshment after Yoga.



Women’s Equality Day marks a global recognition of the ongoing struggle for equal rights and opportunities for women, 2023

Under the guidance of Worthy VC Sir, Rayat Bahra University organized Webinar on ‘Embrace Equity’ under Gender Champion Club to celebrate Women Equality Day, echoing through the strategic plan spanning from 2021 to 2026. This theme underscores the Importance of achieving gender equality, not just for economic growth, but also as a fundamental human right. Prof. Gurpinder Kumar from Central University, Allahabad shared her views on Women equality and gender sensitization by citing wonderful examples.



World Water Week-2023 on the theme, 'Seeds of Change: Innovative Solutions for a Water-Wise World,' from 25-8-23 to 30-8-23

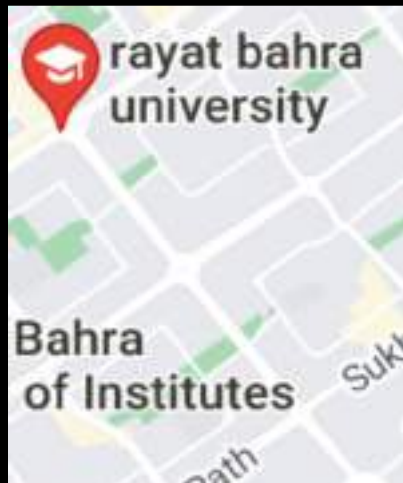
Under the Patronage of Chancellor Sir and Guidance of Worthy VC Sir, World Water Week-2023 kick started with Poster Making competition where students from Department of Commerce, Polytechnic, and Hotel management participated on the theme.

A Rally to spread awareness about water conservation was also organized after the poster making competition.



“World Environment Day-2023” on the theme Beat Plastic Pollution on 6 May, 2023

An Essay Writing Competition was organized for the students to understand their views on the plastic pollution and various ways to eliminate the plastic pollution.



Cleanliness Drive (2022-2023)

RAYAT BAHRA UNIVERSITY carried out Campus Cleanliness Drive in the adjacent area of the girls' hostel by picking up the garbage or waste dumped after eating. Hostel Students participated enthusiastically and collected a lot of waste thrown in the ground. Every week, one selected area will be cleaned by the students under the office of student's welfare.



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Longitude: 76.619060
Elevation: 310.15±5.88 m
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Note: Rayat Bahra University



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Thursday 07 December 2023 12:36:46



Awareness Campaign on World AIDS Day (2022-2023)

In Collaboration with Red Ribbon Club, Rayat Bahra University observed World AIDS Day to spread awareness about causes and preventing measures of HIV/AIDS.

A Candle March with Colored Candles was also organized by students to come together as a community to show support for people living with HIV and recommit to working together towards ending the HIV epidemic. Red Candle gives light and honors the memory of those who passed on because of AIDS. The White Candle symbolizes hope for a cure and a stable life of the infected. The Yellow Candle acts as a symbol of support and encouragement for those affected by HIV/AIDS



Awareness on First Aid Kit (2023)

Department of Life Sciences, Rayat Bahra University, Mohali, India organized First Aid Kit Competition to aware the students about the brood keeping the First Aid Kit. First Aid Kit helps in providing immediate and effective aid for common injuries, burns, bruises, sprains and illnesses. It's an essential item to have around the home, useful in the car and at your workplace.



Awareness campaign on HIV/AIDS

RAYAT BAHRA UNIVERSITY organized HIV/AIDS Awareness campaign in collaboration with Microbiologists Society, India and Red Ribbon Club, Mohali by organizing Poster Making and Rangoli making competitions on the theme.





Awareness campaign on Swachhta hi Seva:

Under the guidance of Worthy Vice-Chancellor Sir, RBU participated in Swachhta hi Seva campaign where students of the hostels carried out cleanliness drive in and around the campus under the supervision of Dean Students Welfare & hostel warden on 01.10.2023.





Awareness Campaign on World Thalassemia Day

Under the guidance of Worthy VC Sir, today In Collaboration with Red Ribbon Club, Department of Life Sciences, Rayat Bahra University observed *World Thalassemia Day* to create awareness on Thalassemia organizing ‘Quiz Competition’ on theme “Be Aware. Share. Care: Working with the global community as one to improve thalassemia knowledge



Awareness on World Ozone Day-2022 on theme "Montreal Protocol@35: global cooperation protecting life on earth"

Department of Life Sciences, Rayat Bahra University, Mohali, India observed World Ozone Day-2022 on theme "Montreal Protocol@35: global cooperation protecting life on earth" on 16.09.2022 by organizing 'Debate Competition'



Awareness Campaign 68th National Wildlife Week (6/10/2022to10/10/2022)

Under the patronage of Hon'ble Chancellor, S. Gurvinder Singh Bahra and guidance of Worthy Vice-Chancellor, Prof. (Dr.) Parvinder Singh, This 68th national wild Life week was celebrated by the Department of Life Sciences, Rayat Bahra University with contribution towards promoting the conservation and protection of animal life by organizing various competitions in collaboration with Red Ribbon Club, Mohali. Essay writing competition, photography contest, nuked natak/Street play were planned.

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Awareness Campaign on Dengue and Chickengunya

Rayat Bahra University in collaboration with Red Ribbon Club organized ‘Quiz competition and Awareness campaign on Dengue and Chickengunya’* where massive participation was observed. Chickengunya is caused by the chikengunya virus (CHIKV) and Dengue is caused by a virus of the Flaviviridae family and there are four distinct, but closely related, serotypes of the virus that cause dengue (DENV-1, DENV-2, DENV-3 and DENV-4). Their infection causes fever and severe joint pain. Other symptoms include muscle pain, joint swelling, headache, nausea, fatigue and rash. The purpose of the day is to raise awareness about the prevention of these disease and different ways to protect yourself from mosquito bites.

Use insect repellent, wear long-sleeved shirts and pants, treat clothing and gear, and take steps to control mosquitoes indoors and outdoors.



Department of Life Sciences

Organizing

Awareness Campaign

Dengue and Chickengunya

Quiz compellion

Convener : Prof.(Dr.) Simerjit Kaur

Coordinator: Navdeep Kaur

Co- Coordinator : Kamalpreet Kaur





RAYAT-BAHRA UNIVERSITY



Chief Patron	Patron	Co-Patron	Co-Patron
S. Gurvinder Singh Bahra Hon'ble Chancellor Rayat-Bahra University	Prof. (Dr.) Parvinder Singh Vice-Chancellor Rayat-Bahra University	Ms. Sahila Bahra Vice-President Rayat-Bahra University	Prof. (Dr.) Dinesh Sharma Registrar Rayat-Bahra University



Awareness Campaign on World AIDS day-2022(1/12/2022)

Under the guidance of worthy Vice chancellor Dr. Parvinder Singh World AIDS Day, 2022 was organized on theme “United to Equalize against AIDS” in collaboration with Red Ribbon Club. Competitions as Poster making and extempore competition were conducted, where huge students’ participation was observed along with awareness rally on HIV/AIDS in the neighborhood villages where massive participation of students & staff was observed.

रवात बाहरा यूनीवर्सिटी द्वारा ‘विश्व एड्स दिवस’ पर जागरुकता रैली का आयोजन

■ मुकाबलों के विजेताओं को सर्टीफिकेट देकर किया सम्मानित
चंडीगढ़ (संघ सहृदय न्यूज)।

रवात बाहरा यूनीवर्सिटी के जीव विज्ञान विभाग की ओर से विश्व एड्स दिवस मनाया गया। विश्व रोगों के एड्स विरुद्ध संरक्षण के लिए जागरुकता दिवस पर पोस्टर मेकिंग और एक्सटेम्पोरे मुकाबलों का आयोजन किया गया। इनके साथ ही आस-पास के गांवों में एचआईवी/एड्स प्रति जागरुकता रैली भी निकाली गई, जिसमें विद्यार्थियों और स्टाफ की भारी उपस्थिति देखने को मिली। इस रैली की रवात बाहरा यूनीवर्सिटी के प्राइम-चान्सेलर प्रो. (डॉ.) परचंद सिंह ने इसी इच्छा के साथ रखा किया। उन्होंने विद्यार्थियों की इस रैली को प्रोत्साहित में हिस्सा लेने के लिए प्रेरित किया, जो कि समाज हित में है। रवात बाहरा यूनीवर्सिटी के प्राइमर, वरिष्ठ शिक्षक द्वारा



विद्यार्थियों की ओर से इस विद्यार्थी सभाजिक विभागीय तबत किया प्रयास की प्रशंसा की।

इस रैली डॉ. विमलजीत शीर, डॉन विद्यार्थी अनाई और जेहन अफसर, रेड-रिबन क्लब के एच.आई.वी./एड्स के कारणों, फैलने के राह और रोकथाम ज्ञानों को प्रसारित। विद्यार्थियों ने एक्सटेम्पोरे अफसर द्वारा प्रोत्साहित मुकाबलों में पहला स्थान

चंडीगढ़। विश्व एड्स दिवस पर विद्यार्थियों के साथ यूनीवर्सिटी के प्राइमर-चान्सेलर व अन्य।

विद्यार्थियों ने इतिहास किया, के-आ ने सुरक्षा और रोकथाम ने तीसरा स्थान प्राप्त किया। पोस्टर मेकिंग मुकाबलों में बहुत सारे विद्यार्थियों ने इलाक जैने, जिस में अर्जुन (एच.एच.सी. ई.पी.एम.) ने पहला स्थान, अर्जु (एच.एच.सी. यू.एल.सी.) ने दूसरा, सुधीर (एच.एच.सी. यू.एल.सी.) ने तीसरा स्थान प्राप्त किया। इस दौरान अलग-अलग मुकाबलों के विजेताओं को सर्टीफिकेट देकर सम्मानित भी किया गया।



रयात बाहरा यूनिवर्सिटी के विद्यार्थियों की ओर से घरेलू हिंसा विषय पर जागरुकता रैली का आयोजन

जनगढा न्यूज़ / मोहाली
तेजपाल

रयात बाहरा यूनिवर्सिटी स्कूल ऑफ एजुकेशन और स्कूल ऑफ सोशल साइंस की ओर से पास के गाँव घटौर में घरेलू हिंसा पर एक रैली निकाली गई। इस रैली को चर्चिस चंसलर प्रो.डा. परविन्दर सिंह, डीन विद्यार्थी भलाई डा. सिमरजीत कौर, डीन एजुकेशन और सोशल साइंस प्रो. डा. इन्दरजीत कौर, एच.ओ.डी डा. मेहर मानक ने रचना कि बा। डा. जसपाल सिंह और डा. सुचेत कुमार के निर्देशन में गाँव घटौर पहुँचने पर सरपंच रमजीत सिंह और समूह पंचायत, नगर निवासीयों की ओर से इस रैली का स्वागत किया गया। रैली दौरान अपने संबोधन में डा. जसपाल सिंह ने कहा कि घरेलू हिंसा एक खतरनाक



गाँव घटौर में घरेलू हिंसा पर निकाली गई रैली का दृश्य।

रुझान है। आर्थिक, नितवी अहंकार और नशों के रुझान के कारण यह व्यापक स्तर पर फैल रही है। डा. सुचेत कुमार ने कहा कि आज के समय में औरत मर्द के बराबर

काम कर रही है इस लिए घर में औरत को मान मर्यादा बराबर की होनी चाहिए। इस मौके यूनिवर्सिटी के विद्यार्थियों ने भी घरेलू हिंसा संबंधी विचारों के साथ

अपने विचार सांझे किए। प्रोग्राम के अंत में पंचायत और समूह गाँववासियों की ओर से इस जागरुकता रैली के लिए यूनिवर्सिटी का धन्यवाद किया गया।

Main Edition