



University : KARUNYA INSTITUTE OF TECHNOLOGY AND SCIENCES
Country : INDIA
Web Address : www.karunya.edu

[3] Waste (WS)

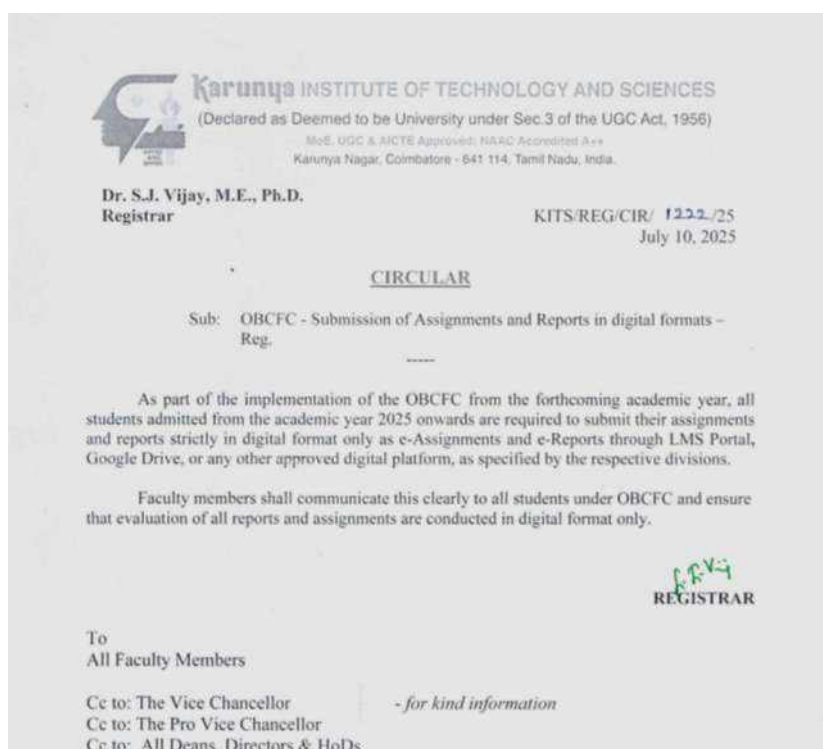
[3.1] 3R (Reduce, Reuse and Recycle) Program for University Waste

Karunya Institute of Technology and Sciences is committed to fostering an environmentally responsible campus that aligns with its vision of sustainable development and stewardship of God's creation. Recognizing the growing challenges posed by waste generation, the institution has adopted proactive measures to minimize waste at its source through awareness, education, and innovation.

These programmes aim to promote the principles of “Reduce, Reuse, and Recycle” across all levels of campus operations, encouraging students, faculty, and staff to adopt sustainable habits in daily activities. By integrating eco-friendly practices into academic, residential, and administrative domains, Karunya seeks to build a model green campus that not only reduces waste but also inspires a culture of environmental responsibility and circular resource use.

1. Programmes to Reduce the generation of Waste materials in the Campus

1 a) Official Proceedings towards Reducing Paper





KMail

J. Jenkin Winston 1687 <jenkinwinston@karunya.edu>

[Faculty] Fwd: Blue Book Stage 1

1 message

Prof. Dr. R. Elijah Blessing <elijahblessing@karunya.edu> Wed, Aug 30, 2017 at 10:41 PM
To: "Dean (Engg & Tech) Karunya" <dean_et@karunya.edu>, Dean Karunya <dean_as@karunya.edu>, "Dean (Agri) Karunya" <dean_agri@karunya.edu>, Dean Karunya <dean_ksm@karunya.edu>
Cc: hods@karunya.edu, SHANTHINI PANDIARAJ 196 <shanthini@karunya.edu>, "Dr. JANNET VENNILA J. 628" <jannet_r@karunya.edu>, Vice-Chancellor Karunya <vc@karunya.edu>, Pro-Vice-Chancellor Karunya <prov@karunya.edu>, "Mr. JEBASINGH J. 10" <jebasingh@karunya.edu>, grace pauline <grace.r@truefriend.co.in>, cbcs office <cbcs@karunya.edu>, faculty <faculty@karunya.edu>

To

All Deans/ HoDs

Dear Colleagues,

I am pleased to inform that the COMPUTERIZATION OF BLUE BOOK (Attendance and assessment record-theory) has been completed.

In order to launch this facility, the department mykarunya coordinators are requested to upload the approved teaching plan of all the subjects offered in their department during the current semester in the (.xls) format.

They shall upload the teaching plan in the link available in eduserve login for mykarunya coordinators.

HODs are requested to provide the soft copy of the approved teaching plan for all the subjects to mykarunya coordinators immediately.

The screenshot of the page is given below.

The last date for uploading the teaching plan by mykarunya coordinators shall be **on or before September 01, 2017, 5 p.m** in order to facilitate the eduserve team to launch the bluebook automation screen for the faculty at the earliest. For any clarifications, you may please contact eduserve support team.

The HoDs & Deans are requested to ensure the uploading of teaching plan by mykarunya coordinators on time.

The University administration congratulates the eduserve team and dept of CST (Computerization team) for all their efforts.

Thanks

Warm Regards

Prof. Dr. R. Elijah Blessing, M.E, Ph.D,

KMail

J. Jenkin Winston 1687 <jenkinwinston@karunya.edu>

[Faculty] Blue book based reports

1 message

Prof. Dr. Elijah Blessing R <elijahblessing@karunya.edu> Fri, Nov 17, 2017 at 1:17 AM
To: deans@karunya.edu
Cc: hods@karunya.edu, faculty@karunya.edu

Dear colleagues,

As we approach the end of the semester, it is hereby reminded that the blue book reports are available in eduserve to access lecture plan coverage. All the reports pertaining to course file for audit purpose is also available in eduserve. Faculty members are advised to take reports from eduserve accordingly. This semester was a pilot run and it was successful. The administration would like to thank the eduserve team for successfully deploying and testing it. If there are any more suggestions, please feel free to drop in a email.

From the forthcoming even semester, in order to improve the productivity of faculty, the blue book and the course files will be fully E-based. (Details will be circulated in due course). Therefore, Deans/ HODs are requested to ensure that the MYKARUNYA coordinators upload the next semester lecture plan for the next semester in eduserve on or before 25th Nov 2017.

Thanks.

GoGreen

Sent from my iPhone

Warm Regards

Prof. Dr. Elijah Blessing Rajsingh, M.E, Ph.D
Registrar,
Karunya Institute of Technology and Sciences,
(Deemed to be University)
Karunya Nagar,
Coimbatore- 641114

Mobile: +919487846516
Phone: +914222614321
Fax: +914222615615



KMail

J. Jenkin Winston 1687 <jenkinwinston@karunya.edu>

[Faculty] Encashment of Earned Leave - Automation- Reg.

1 message

Prof. Dr. Elijah Blessing R <elijahblessing@karunya.edu>
To: faculty@karunya.edu, staff@karunya.edu
Cc: Grace Ramamoorthy <grace.r@truetrend.co.in>, Vc <vc@karunya.edu>, Pro Vice-Chancellor <provc@karunya.edu>

Dear colleagues,

This is to inform that the online applications submitted by the faculty/ staff members for Encashment of Earned leave (Deadline 4 Dec 2017) has been processed on 5 th Dec 2017 and account on 7 th Dec 2017.

I wish to thank the eduserve team and the HR team who helped us in automating the EL encashment for ensuring quick, transparent and paperless processing of EL applications.

Let's continue to go greener and enhance our productivity.

Thanks

GoGreen

Sent from my iPhone

Warm Regards
Prof. Dr. Elijah Blessing Rajsingh, M.E, Ph.D
Registrar,
Karunya Institute of Technology and Sciences,
(Deemed to be University)
Karunya Nagar,
Coimbatore- 641114

Mobile: +919487846516
Phone: +914222614321
Fax: +914222615615

Scopus ID: <https://www.scopus.com/authid/detail.uri?authorid=25621662300>

Orcid ID: <http://orcid.org/0000-0003-3424-812x>

Thomson Reuters researcherID: <http://www.researcherid.com/rid/B-2767-2016>

1. b) Awareness through Signage Boards



2. Reuse of Waste



3. Recycle of Waste



Paper Recycling Process and Production of New Stationary Products



Commercial Vermicompost Unit at the North Farm

Gasification of Plastic Waste



Sewage Treatment Plant



| Type of Waste | Treatment / Management |
|------------------------|---|
| Solid Waste | Collection, Segregation and disposal of waste Organic waste: Aerobic composting ,Vermicomposting |
| Paper Waste | Eco-Paper Recycling Unit to treat 75-100 kg/day of waste paper |
| E-Waste | 3,500 kg/year generated and disposed through authorized agency of Pollution Control Board |
| Biomedical Waste | 250-300kg/year generated and disposed through authorized agency of Pollution Control Board |
| Kitchen and Food Waste | 20% of the food waste is utilized through Biogas Plant. 80% used for piggeries. |

Description:

Solid Waste Management and Recycling:

- To manage solid waste, collection bins have been placed at different locations on campus. After segregation, the biodegradable waste is subject to degradation by



organic composting and the bio-fertilizer is utilized in the 329-acre experimental farm for academic, research and community development activities.

- Considering the health and hygiene of the students, 2 incinerators have been installed in the ladies' residence.

Liquid Waste Management:

The grey and black water from the residences are treated in the 5 Sewage Treatment Plants (STP) installed on campus, at an investment of Rs. 300 lakh. 2500 KLD of wastewater is treated through the primary, biological and tertiary units that are fitted with screens to remove large non-biodegradable and floating solids such as rags, papers, plastics, tins, containers and wood chips, a fluidized bed bio-reactor for aerobic treatment of degradation of wastewater and a filtration system to remove suspended matter, micro-organisms and algae, and a sludge drying bed. The water is reused for gardening and irrigation through 118 outlets on campus.

The four Biogas plants of 360 cu.m capacity generate 114 kg of cooking gas/day (equivalent to 6 commercial gas cylinders) through the treatment of black and grey water from resident halls. The facility was installed with an investment of Rs. 130 lakh.

Hazardous Waste:

KITS follows the UGC guidelines, 2011 with regard to usage and storage of chemicals for academic and research purposes. 3,500 kg/year of E-waste generated and disposed through authorized agency of Pollution Control Board and biomedical waste of 250-300kg/year generated and disposed through authorized agency of Pollution Control Board.

Scientific and Technological Intervention in Waste Management at KITS:

Faculty and students are involved in pilot projects, demonstration related to waste management. At the Water Institute – a Centre of Excellence, the following research activities are pursued with grants from MoEF&CC and DST, GoI

- Evaluating the performance of the unit operations in the STPs, based on modeling and simulation studies – Model
- Periodic monitoring and characterization of the raw and treated effluents from STPs
- Biochar preparation using agricultural farm waste for purification of contaminated water
- Isolation of microbes from campus STPs for the bioremediation of waste water and treatment of effluents from small scale textile dyeing units in and around Coimbatore
- Treatment of used cutting fluid from mechanical workshops on campus using the Petroleum Remediation Product (PRP®), a NASA product from UniRem Technology, Pittsburgh, USA
- Treatment of greywater using microbial fuel cells.



- Recycling and reuse of detergent water using electrocoagulation technology
- A conceptual model on decentralized wastewater treatment at household and community level