



Karnatak University's,  
KARNATAK SCIENCE COLLEGE, DHARWAD  
NAAC Accredited

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1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum

**Cross cutting issues are the integral part of the institutional curricular and Co-curricular Activities**

Institute integrates crosscutting issues relevant to professional ethics, gender, human values, environment and sustainability into the curriculum. Some of the steps taken are below:

**Gender equity:** Equal importance is given to both boy and girl in all the activities of the college. The institution promotes gender sensitization through co-curricular activities like workshops, seminars, guest lectures, poster presentation, counseling etc.

1. NSS and NCC: Girls and boys have the equal opportunity in College admission and participation in all types of camps, work being carried out in the campus and outside the campus.
2. Curricular and co-curricular activities: No special provisions were made for boys and girls and are treated equally.
3. Committees: The institution maintains and promotes gender equity by including both male and female staff members and student representatives in all the committees.
4. Library: Our library is having a common wing/reading room for boys and girls. For girls there is additional separate reading room too. In order to take the safety of the girl students, library has a CCTV surveillance facility.
5. Teachers Association/Staff Club/Common Room: In all these components, both male and female staff members are the regular members and share equal responsibility and participate in every activity of association and staff Club.
6. Study Tours/Field Visits: In the departments where study tour/Field visit is a compulsory component of the curriculum, both boys and girls participate.
7. Counseling Cell: The institution has a dedicated Counseling cell called "SNEHA" for the students to take care of their academic, emotional, social and cognitive development. Personal Counseling is provided to the students at different levels. There are separate washroom facilities for girls and boys.

**Human Values and Professional Ethics:** Indian Constitution and Human Rights are the mandatory subjects for BSc/BCA/BSc (CS) students where human values and Professional ethics are taught. In addition to these conducting awareness campaigns organising Orientation Programmes, Seminars etc are conducted to sensitise the future leaders to inherit human values coping with the constitutional obligations.

**Environmental Sustainability:** Environmental Studies is one of the mandatory subjects for BSc/BCA/BSc (CS) students. The process of Liquid, solid and E-waste management is practiced in the campus. Separate places are identified with many dust bins in which the solid waste materials are disposed. Dust bins fields with waste materials are lifted by the city corporation. College campus has an underground drainage system and liquid waste is safely discharged in to it. Stored E-waste will be collected by the University concerned authorities.

**Solid waste management :** Keeping in view of the cleanliness and to maintain the hygienic environment, separate place is identified where the solid waste materials are disposed. College produces a very less amount of Solid waste through regular activities includes paper, glass, food residue and packaging material etc. Every Sunday College NSS Volunteers arrange **Swachhata programme** in the campus and makes college campus solid waste free campus. In addition to this, many dust bins are placed in different corners of the campus and students are encouraged to put the waste materials into these bins, which is later emptied by the proper waste disposal area and in turn it is lifted by the city corporation. Our institute already a plastic free campus and it encourages all the students and staff both to be plastic free. The campus is having a big green coverage.

- **Liquid waste management.**

College has made a provision to scientifically handle the liquid waste generated during food preparation and washing of cooking utensils and cloths in the Canteen and Hostels, laboratories, washrooms etc. College campus has an underground drainage system and liquid waste is safely discharged in to it.

- **E-waste management.**

College produces e-waste through Electronic instruments, Computers and their components, electrical materials etc. Repairable e-waste will be segregated and inspected by the expert authority and such things will be repaired and reused. College has a provision for E-waste storage at appropriate place. Later authorised persons identified by Karnatak University will carry the same by taking required precautions.

**Carbon Sequestration:** To maintain eco-friendly environment in the college campus through various activities Viz., Tree Plantation in the barren land, Paperless office through e-governance, creating Plastic free zones, Keeping Clean and Green Campus, Saving electricity by way of installing solar panels, workshop for preparation of Paper Bags, Awareness Programme on Renewable Energy sources and their utilization and e- Waste Management. Because of these practices, eco-friendly and pollution free environment is created in the college campus. The college practices the green auditing through carbon sequestration which indicates the vegetation density.

**Human Values and Professional Ethics:** The institution takes many initiatives like conducting awareness campaigns, organizing orientation programmes, training programmes, seminars and workshops to sensitize the future leaders to inherit human values coping with the constitutional obligations. Ethical Values, rights, duties and responsibilities of citizens are some of the topics that are enlisted in Elocution/ Debates activities. The institution has strived forward with great effort to increase the level of awareness and appropriate practices amongst the students. The students have enthusiastically participated in various activities like seminar, conferences, expert talks, poster making competition etc. Various departments of the institution and NSS unit are actively involved in conducting several activities for inculcating values for being responsible citizens like: Creating awareness on Covid-19, Distribution of masks to the public, Van Mahotsav day, Voters awareness program, Swachh Bharat Abhiyan, International Human Rights Day etc.



**KARNATAK UNIVERSITY, DHARWAD**  
**ACADEMIC (S&T) SECTION**  
 ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ  
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 'A' Grade 2014

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No. KU/Aca(S&T)/RIH-271/BOS /POL SCI (UG) /20-21/ 1028

Date: 19 OCT 2020

**ಅಧಿಸೂಚನೆ**

ವಿಷಯ: 2020-21ನೇ ಶೈಕ್ಷಣಿಕ ಸಾಲಿನಿಂದ ಭಾರತೀಯ ಸಂವಿಧಾನ (Indian Constitution) ವಿಷಯದ 2ನೇ ಸೆಮಿಸ್ಟರ್ ಸಿ.ಬಿ.ಸಿ.ಎಸ್. ಮಾದರಿ ಪಠ್ಯಕ್ರಮವನ್ನು ಅಳವಡಿಸಿದ ಕುರಿತು.

- ಉಲ್ಲೇಖ: 1. UGC Letter DO No. 1-1/2016(SECY), dt. 10.08.2016.  
 2. Special BOS Res. No. 02, dt. 04.07.2020.  
 3. Special Faculty Res. No. 01, dt. 07.08.2020.  
 4. Special Academic Council Res. No. 17, dt. 21.08.2020.  
 5. ಮಾನ್ಯ ಕುಲಪತಿಗಳ ಆದೇಶ ದಿನಾಂಕ 8 OCT 2020

ಮೇಲ್ಕಾಣಿಸಿದ ವಿಷಯ ಹಾಗೂ ಉಲ್ಲೇಖಗಳಿಗೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯದ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವಂತಹ ಎಲ್ಲ ಮಹಾವಿದ್ಯಾಲಯಗಳ ಪ್ರಾಚಾರ್ಯರುಗಳಿಗೆ ಈ ಮೂಲಕ ತಿಳಿಸುವುದೇನೆಂದರೆ, 2020-21ನೇ ಶೈಕ್ಷಣಿಕ ಸಾಲಿನಿಂದ ಭಾರತೀಯ ಸಂವಿಧಾನ (Indian Constitution) ವಿಷಯದ 2ನೇ ಸೆಮಿಸ್ಟರ್ ಸಿ.ಬಿ.ಸಿ.ಎಸ್. ಮಾದರಿ ಪಠ್ಯಕ್ರಮವನ್ನು "ಅನುಬಂಧ ಎ" ರಂತೆ ಅಳವಡಿಸಲಾಗಿದೆ.

ಆದ್ದರಿಂದ, ಸದರ ಮಾಹಿತಿಯನ್ನು ಅಧ್ಯಾಪಕರ ಹಾಗೂ ವಿದ್ಯಾರ್ಥಿಗಳ ಗಮನಕ್ಕೆ ತರಲು ಮಹಾವಿದ್ಯಾಲಯದ ಸೂಚನಾ ಫಲಕಕ್ಕೆ ಲಗತ್ತಿಸಲು ತಿಳಿಸಲಾಗಿದೆ.

ಮುಂದುವರೆದು, ಪಠ್ಯಕ್ರಮವನ್ನು ಕ.ವಿ.ವಿ. ಅಂತರ್ಜಾಲ (website) [www.kud.ac.in](http://www.kud.ac.in) ರಲ್ಲಿ ಪಡೆದುಕೊಳ್ಳಲು ಸೂಚಿಸಲಾಗಿದೆ.

*(Handwritten Signature)*  
 (ಡಾ. ಹನುಮಂತಪ್ಪ ಕೆ.ಟಿ)  
 ಕುಲಸಚಿವರು

ಗೆ,

ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯದ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಬರುವ ಎಲ್ಲ ಅಧೀನ ಹಾಗೂ ಸಂಲಗ್ನ ಮಹಾವಿದ್ಯಾಲಯಗಳ ಪ್ರಾಚಾರ್ಯರುಗಳಿಗೆ ಮಿಂಚಂಚೆ ಮೂಲಕ ಕಳುಹಿಸಲಾಗಿದೆ.

ಪ್ರತಿ ಮಾಹಿತಿಗಾಗಿ: ಡೀನರು, ಸಮಾಜ ವಿಜ್ಞಾನ ನಿಖಾಯ, ಕರ್ನಾಟಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಧಾರವಾಡ.

ಪ್ರತಿ:

1. ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕುಲಪತಿಗಳ ಕಾರ್ಯಾಲಯ, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
2. ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕುಲಸಚಿವರ ಕಾರ್ಯಾಲಯ, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
3. ಆಪ್ತ ಕಾರ್ಯದರ್ಶಿಗಳು, ಕುಲಸಚಿವರು(ಮೌಲ್ಯಮಾಪನ) ಕಾರ್ಯಾಲಯ, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
4. ನಿರ್ದೇಶಕರು, ಐ.ಟಿ. ಶಾಖೆ, ಪರೀಕ್ಷಾ ವಿಭಾಗ, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.
5. ಅಧೀಕ್ಷಕರು, ಸಿಡಿಸಿ (ಸಂಯೋಜನೆ) ವಿಭಾಗ, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ
6. ಅಧೀಕ್ಷಕರು, ಬಿಎ / ಪ್ರಶ್ನೆ ಪತ್ರಿಕೆ / ಗೌಪ್ಯ / ಜಿ.ಎ.ಡಿ ಶಾಖೆ, ಪರೀಕ್ಷಾ ವಿಭಾಗ, ಕ.ವಿ.ವಿ. ಧಾರವಾಡ.



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No. KU/Aca(S&T)/SVB-08/BOS /Geography (UG) /20-21 999

Date: 16 OCT 2020

**NOTIFICATION**

Sub: Regarding introduction of the syllabus of Environmental Science (AECC) UG under C.B.C.S. w.e.f. the academic year 2020-21 & onwards.

- Ref: 1. UGC Letter DO No. 1-1/2016(SECY), dt. 10.08.2016.  
2. Special Faculty Res. No. 07, dt. 11.08.2020.  
3. Special Academic Council Res. No. 41, dt. 21.08.2020.  
4. Vice-Chancellor's order dated - 07-10-2020

Adverting to the above, it is hereby notified to the Principals of all constituent and affiliated degree colleges coming under the jurisdiction of Karnatak University, Dharwad that the Environmental Science (AECC) syllabus for I Semester which is annexed herewith in Annexure-A is introduced under C.B.C.S. from the academic year 2020-21 & onwards.

Hence, the contents of this notification may please be brought to the notice of the students and all the concerned. The prescribed C.B.C.S. syllabus may also be obtained through K.U.website ([www.kud.ac.in](http://www.kud.ac.in)).

*Hanumanthappa K.T.*  
(Dr. Hanumantappa K.T)  
REGISTRAR

To,

1. The Chairman, BOS Geography (UG), Dept. of Geography , K.U.Dharwad.
2. The Chairman, Dept. of Geography , K.U.Dharwad.
3. The Principals of all the constituted and affiliated degree colleges under the jurisdiction of Karnatak University, Dharwad. (The same may be sent through e-mail)
4. The Registrar (Evaluation), K.U.Dharwad.

**Copy fws to:**

1. Dr. Ch.Ramesh, Dean, Faculty of Science & Tech., Dept. of Botany, K.U.Dharwad.
2. The Director, IT Section, Examination Section, K.U.Dharwad for information and to upload on K.U.Website ([www.kud.ac.in](http://www.kud.ac.in)).

**Copy to:**

1. PS to Vice-Chancellor, K.U.Dharwad.
2. S.A. to Registrar, K.U.Dharwad.
3. O.S., Exam UG / Confl / QP / GAD Section, K.U.Dharwad.
4. The System Analyst, Computer Unit Exam Section, K.U.Dharwad.

**Karnatak University, Dharwad**  
**All Under Graduate Programmes**  
**Semester -I**  
**Ability Enhancement Compulsory Course (AECC)**  
**Environment Studies: ES-A**

Total Credit: 2

Lecture/semester: 30 hrs

Two Hours Lecture in a week.

Total Number of marks: 50 (10 IA + 40 Sem. end exam)

Duration of exam: 1.5 hrs.

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**Unit 1: Introduction to environmental studies**

- Multidisciplinary nature of environmental studies;
- Scope and importance; Concept of sustainability and Sustainable development. (2 lectures)

**Unit 2: Ecosystems**

- What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems:
  - a) Forest ecosystem
  - b) Grassland ecosystem
  - c) Desert ecosystem
  - d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)(6 lectures)

**Unit 3: Natural Resources: Renewable and Non-renewable Resources**

- Land resources and land use change; Land degradation, soil erosion and desertification.
- Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity, and tribal populations.
- Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).
- Energy resources: Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs, case studies. (8 lectures)

**Unit 4: Biodiversity and Conservation**

- Levels of biological diversity : genetic, species and ecosystem diversity; Bio-geographic zones of India; Biodiversity patterns and global biodiversity hot spots
- India as a mega-biodiversity nation; Endangered and endemic species of India
- Threats to bio-diversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.
- Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value. (8 lectures)

**Unit 5: Environmental Pollution**

- Environmental pollution : types, causes, effects and controls; Air, water, soil and noise pollution
- Nuclear hazards and human health risks
- Solid waste Management: Control measures of urban and industrial waste.
- Pollution case studies. (6 lectures)

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Merits and demerits of Oral Communication

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## V LEADERSHP AS PROCESS

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5.4 : Career Planning and its Role in the Personality Development

5.5 : Facing Personal Interview

5.6 : Facing Group Discussion