



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ

ವಿಜಯ ಅಧಿನಿಯಮ ೧೯೯೪ ರ ಅಡಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಸರ್ಕಾರದಿಂದ ಸ್ಥಾಪಿತವಾದ ರಾಜ್ಯವಿಶ್ವವಿದ್ಯಾಲಯ

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

State University of Government of Karnataka Established as per the VTU Act, 1994 "JnanaSangama" Belagavi-590018, Karnataka, India

Prof. B. E. Rangaswamy, Ph.D

REGISTRAR

Phone: (0831) 2498100

Fax: (0831) 2405467

REF: VTU/BGM/BOS/AEC-SEE details/2023-24/ 4987

DATE:

19 DEC 2023

CIRCULAR

Subject: SEE details of the courses of AEC of 5th semester 2021 scheme regarding...

Reference: Suggestion by the Chairpersons CSE BoS VTU Belagavi vide email dated 20.11.2023.

In response to a question raised by a stakeholder, it has been made clear that **BAI358B: Ethics and Public Policy for AI** is a one-credit course /subject that requires a two-hour, 100-mark theory exam (2022 scheme).

It is requested that all principals of constituent and affiliated engineering institutions notify all students and faculty in question of the circular's contents.

Thanking you

Encl: Syllabus of BAI358B

Sd/-

REGISTRAR

To,

1. All the Principals of all affiliated, constituent Engineering Colleges are under the ambit of the university.
2. The Chairpersons /Program Coordinator of the University departments at Kalaburagi, Mysuru Belagavi, and Muddenhalli Bengaluru

CC to

- The Hon'ble Vice-Chancellor through the secretary to VC for information
- The Registrar (Evaluation) for information
- The Dean Faculty of Engineering, VTU Belagavi
- The Director ITI, SMU VTU Belagavi for information and request to upload the circular on the VTU web portal.
- The Office copy

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Ethics and Public Policy for AI		Semester	
Course Code	BAI358B	CIE Marks	50
Teaching Hours/Week (L:T:P: S)	1:0:0	SEE Marks	50
Total Hours of Pedagogy	14	Total Marks	100
Credits	01	Exam Hours	2
Examination type (SEE)	Theory		
Course objectives: <ul style="list-style-type: none"> • <i>To understand Ethical Framework for a Good AI Society, establishing Rules for trustworthy AI</i> • <i>To Designing ethics for good society</i> • <i>To familiar with Tools, methods and practices for designing AI for social good</i> • <i>To familiar with Innovation and future AI</i> • <i>To understand the Case Study: Ai in health care, knowing Regulation and Governance of AI ethics</i> 			
Teaching-Learning Process (General Instructions) These are sample Strategies, which teachers can use to accelerate the attainment of the various course outcomes. <ol style="list-style-type: none"> 1. Chalk and Talk 2. Real time Examples 3. Natural Approaches 			
Module-1			
An Ethical Framework for a Good AI Society: opportunities, Risks, principles and Recommendations. Establishing the rules for building trustworthy AI Textbook1: Chapter 3, chapter 4			
Module-2			
Translating principles into practices of digital ethics: five risks of being Unethical The Ethics of Algorithms: Key problems and Solution How to Design AI for Social Good: Seven Essential Factors Textbook1: Chapter 6, Chapter 8, Chapter 9			
Module-3			
How to design AI for social good: seven essential factors From What to How: An Initial Review of publicly available AI Ethics tools, Methods and Research to Translate principles into Practices Textbook1: Chapter 9, Chapter 10			
Module-4			
Innovating with Confidence: Embedding AI Governance and fairness in financial Services Risk management framework, What the near future of AI could be. Textbook1: Chapter 20, chapter 22			
Module-5			
Human-AI Relationship, AI and Workforce, Autonomous Machines and Moral Decisions, AI in HealthCare: balancing Progress and Ethics,			

<p>Regulation and Governance of AI Ethics</p> <p>Textbook2 : Chapter 5,Chapter 8, Chapter 9</p>
<p>Course outcome (Course Skill Set)</p> <p>At the end of the course, the student will be able to :</p> <ol style="list-style-type: none"> 1. Describe Ethical Framework for a Good AI Society, establishing Rules for trustworthy AI 2. Explain ethics for good society 3. Illustrate various Tools, methods and practices for designing AI for social good 4. Describe the Innovation and future AI 5. Illustrate Regulation and Governance of AI ethics in Healthcare domain.
<p>Assessment Details (both CIE and SEE)</p> <p>The weightage of Continuous Internal Evaluation (CIE) is 50% and for Semester End Exam (SEE) is 50%. The minimum passing mark for the CIE is 40% of the maximum marks (20 marks out of 50) and for the SEE minimum passing mark is 35% of the maximum marks (18 out of 50 marks). A student shall be deemed to have satisfied the academic requirements and earned the credits allotted to each subject/ course if the student secures a minimum of 40% (40 marks out of 100) in the sum total of the CIE (Continuous Internal Evaluation) and SEE (Semester End Examination) taken together.</p> <p>Continuous Internal Evaluation:</p> <ul style="list-style-type: none"> • For the Assignment component of the CIE, there are 25 marks and for the Internal Assessment Test component, there are 25 marks. • The first test will be administered after 40-50% of the syllabus has been covered, and the second test will be administered after 85-90% of the syllabus has been covered • Any two assignment methods mentioned in the 22OB2.4, if an assignment is project-based then only one assignment for the course shall be planned. The teacher should not conduct two assignments at the end of the semester if two assignments are planned. • For the course, CIE marks will be based on a scaled-down sum of two tests and other methods of assessment. <p>Internal Assessment Test question paper is designed to attain the different levels of Bloom's taxonomy as per the outcome defined for the course.</p> <p>Semester-End Examination:</p> <p>Theory SEE will be conducted by University as per the scheduled timetable, with common question papers for the course (duration 02 hours).</p> <ol style="list-style-type: none"> 1. The question paper will have ten questions. Each question is set for 10 marks. 2. There will be 2 questions from each module. Each of the two questions under a module (with a maximum of 2 sub-questions), should have a mix of topics under that module. 3. The students have to answer 5 full questions, selecting one full question from each module. <p>4. Marks scored shall be proportionally reduced to 50 marks</p>
<p>Suggested Learning Resources:</p> <p>Books</p> <ol style="list-style-type: none"> 1. "Ethics, governance and Policies in Artificial Intelligence", Author-Editor : Luciano Floridi, Springer, 1st Edition 2021, vol 144, Oxford Internet Institute, University of Oxford, UK, ISSN 0921-8599, e-ISSN 2542-8349 Philosophical Studies series, ISBN 978-3-030-81906-4 e-ISSN 978-3-030-81907-1, ://doi.orghttps/10.1007/978-3-030-81907-1, 2021. 2. "Ethics and AI: Navigating the Moral Landscape of Digital Age", Author: Aaron Aboagye,