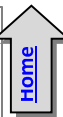


<b>Savitribai Phule Pune University</b> <b>Second Year of Artificial Intelligence and Data Science (2020 Course)</b> <b>217526: Humanity and Social Science</b>		
Teaching Scheme	Credit Scheme	Examination Scheme and Marks
<b>Tutorial: 01 Hours/Week</b>	<b>01<sup>\$</sup></b>	<b>Term work<sup>\$</sup>: 25 Marks</b>
<b>Course Objectives:</b> To enable the students to explore aspects of human society and to acquire the intellectual, communication skills and develop characteristics that encourages personal fulfilment, meaningful professional life and responsible citizenship. <ul style="list-style-type: none"> <li>• To facilitate Holistic growth;</li> <li>• To Educate about Contemporary, National and International affairs;</li> <li>• To bring awareness about the responsibility towards society.</li> <li>• To give an insight about the emergence of Indian society and the relevance of Economics.</li> </ul>		
<b>Course Outcomes:</b> On completion of the course, learner will be– <ul style="list-style-type: none"> <li><b>CO1: Aware</b> of the various issues concerning humans and society.</li> <li><b>CO2: Aware</b> about their responsibilities towards society.</li> <li><b>CO3:</b> Sensitized about broader issues regarding the social, cultural, economic and human aspects, involved in social changes.</li> <li><b>CO4: Able</b> to understand the nature of the individual and the relationship between self and the community.</li> <li><b>CO5: Able</b> to understand major ideas, values, beliefs, and experiences that have shaped human history and cultures.</li> </ul>		
Course Contents		
<b>Preamble:</b> As applied sciences, Engineering and Technology are meant to come up with effective solutions to social problems making it imperative that the present generation of engineers and technologists understand the society they live in. Studying the social sciences can provide individuals with crucial answers and observations that could certainly help in understanding of one's life which can alleviate social relations. A broad perspective of nationalistic thinking will provide the students with the ability to be socially conscientious, more resilient and open to building an inclusive society. Experiencing real-life situations and complex scenarios that arise in each situation will help the budding professions to contribute their skills and knowledge to helping people improve and understand their behaviour or psychological processes. Understanding how the world works begins with an understanding of oneself and gaining hands-on experience and/or thinking about human values and ethics will help trigger a sense of responsibility among the students and lead them to finding effective solutions. <b>Course Structure:</b> The tutorial sessions to be divided into 2 groups <ol style="list-style-type: none"> <li>1. Interactive Sessions to be conducted in classroom</li> <li>2. Interactive Activities to be conducted Outside Classroom</li> </ol>		
<b>MOOC/ Video Lectures available at<sup>\$</sup>:</b> <ul style="list-style-type: none"> <li>• <a href="https://nptel.ac.in/courses/109/103/109103023/">https://nptel.ac.in/courses/109/103/109103023/</a></li> <li>• <a href="https://nptel.ac.in/courses/109/107/109107131/">https://nptel.ac.in/courses/109/107/109107131/</a></li> </ul>		
<ul style="list-style-type: none"> <li>• Teachers will play the role of interventionists and instigating students to apply their thinking abilities on social concepts</li> <li>• As facilitators and mentors teachers will coax the students to thinking out-of-the-box to come up with creative solutions</li> <li>• Teachers should focus on instilling a sense of social consciousness through the activities conducted indoors and outdoors.</li> </ul>		
<b>Change of Mindset</b> <ul style="list-style-type: none"> <li>• Since the course deviates from technical subjects, students will have to be counseled into the</li> </ul>		



importance of social sciences

- A background understanding of the importance of this course in their professional and personal life will have to be enumerated to the students
- Teachers will have to rationalize the course outcomes to get the students invested in the activities being conducted

### **Designing of Course**

- Since students lack prior knowledge, it is imperative that the tutorials conducted be engaging in its activities
- Focus of the sessions should be the learning outcome of each activity conducted either in the class or outside the class
- All activities designed should be as close to real-life making them relatable and applicable
- Student-engagement should be a priority so that the knowledge internalized will be higher
- The activities chosen can be modified to cater to the college location and social context
- The learning should be focused on application of ethics and values during each activity
- The chosen sessions should cater to giving the students the opportunity to be involved and engaged in their role as contributors to society and the nation at large

### **Basic function of the tutor**

- To present a holistic view of the curriculum and the role of this course in it and emphasizing the benefit of the sessions towards developing communications skills, critical thinking and problems solving

### **Grouping**

- The class will be divided into groups of 20 students
- The blend of cultural and social diversity will enhance the learning at the end of each activity
- Teachers will have to be mentored to handle sensitive issues diplomatically while encouraging students to stand up for their beliefs
- The groups will have to have inter-personal sessions so that they get to understand their team members better and work cohesively
- Management support and encouragement to engage students in life-enriching experiences is important

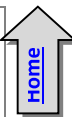
### **Assessment of Learning**

- It is important for tutors to make sure that assessment is consistent with learning objectives of each activity
- Assessment of students should be focused on the students' ability to internalize the learning
- Tutors need to understand meaningful ways of assessing students' work to motivate learning

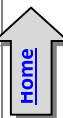
## **Tutorial Conduction and Term Work guidelines**

### **Interactive Sessions to be conducted during Tutorial (in classroom)**

1. PREPARED SPEECH ON CURRENT AFFAIRS
  - a. Purpose – Get students to stay abreast and invested in national current affairs
  - b. Method – Each student has to read an editorial from any national paper (English), find out more information on the topic and present it to the class; ending the session with his/her opinion on the matter
  - c. Outcome – Awareness of national state of affairs. Improve on oratory skills. Instil the thinking and contemplative skills and form non-judgmental opinions about an issue
2. UNDERSTANDING INDIA'S CULTURAL DIVERSITY
  - a. Purpose – Expose students to the intricacies of Indian cultural across various states
  - b. Method – Each student (or a small group of students in case the number of students is large) has to pick a state and come to the tutorial session prepared with a PPT that will showcase the demographic, sociographic and cultural information of that state
  - c. Outcome – Information about the beauty of Indian cultural diversity. Enhance exploratory skill, communication skills and learn to present using technological tools.



3. **WRITING AN ARTICLE ON ANY SOCIAL ISSUE**
  - a. Purpose – Highlight various social and cultural evil malevolence existing in our country and express one's opinion on how it can be changed
  - b. Method – Each student will have to write a 200 word essay on any of existing social malice that is prevalent in society. On evaluation, the top 5 essays can be displayed on the college wall magazine and rewarded if deemed appropriate
  - c. Outcome – Learn to raise one's voice against the wrong doings in communities. Build writing skills, improve language and gain knowledge about how to write an impactful essay
4. **GROUP DISCUSSION ON COMMUNAL TOPIC**
  - a. Purpose – Make students aware of the issues that are pertinent in a society and express a learned opinion about it
  - b. Method – Students in groups of 20 each will discuss a relevant and grave issue that is dogging the nation. Alternatively, topics from current affairs (National budget, democratic process, economical strengthening of the country).
  - c. Outcome – Develop group communication skills. Learn to speak up one's opinion in a forum. Cultivate the habit of presenting solution-driven arguments making them contributors in any team
5. **QUIZ ON SOCIAL BEHAVIOR**
  - a. Purpose – Augment proper social etiquette among students and make them responsible citizens
  - b. Method – Conduct a quiz on traffic rules using audio-visual aids or using dumb charades where one student has to enact the traffic rule and the others have to guess that rule
  - c. Outcome – Grasp of various traffic rules and driving etiquette. Build verbal and non-verbal communication skills
6. **SCREEN A MOVIE (FOCUS ON POSITIVITY AND POWER OF THE MIND)**
  - a. Purpose – Expose students to introspective skills and try to develop a positive thinking in life
  - b. Method – Screen a movie / a documentary / a video that focuses on the power of the mind and how to create affirmations in one's life. At the end of the movie, students can be asked to express their opinions and write down what changes / improvements they plan to take in their choices thereafter. This can be followed by a guest lecture by expert/s or workshop
  - c. Outcome – Comprehend the areas of improvement within themselves. Understand the importance of staying positive and develop affirmations
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  - c. Outcome – Comprehend the areas of improvement within themselves. Understand the importance of staying positive and develop affirmations



#### 9. DEBATE ON A TOPIC FROM SOCIAL SCIENCES

- a. Purpose – Educate students about various domains in social sciences and develop an interest towards gaining knowledge about these topics
- b. Method – Various topics from various domains of social sciences can be chosen and students in pairs can pick a topic and present their arguments for or against the topic. Time for each debate will be 10 minutes maximum
- c. Outcome – Recognize the significance of social sciences in our lives. Cultivate the habit to present forceful arguments while respecting the opponents perspective and enhance verbal skills.

#### **Interactive Activities to be conducted during Tutorial (Outside Classroom)**

##### 1. WASTE MANAGEMENT and CLEAN CAMPUS

- a. Purpose: Create awareness among students about the significance of a clean environment and social responsibility to deter littering and segregate waste
- b. Method: Students (in groups) will be given charge of areas of campus and will be expected to clean that segment. Also, they will be entrusted with the responsibility to collect, separate waste and hand over to the housekeeping authority
- c. Outcome: Develop the habit to maintain cleanliness at home as well as learn to respect community areas at college or workplace. It will also encourage them become ambassadors among their peers to advocate protection of the environment

##### 2. MAKING A VIDEO ON SOCIAL WASTAGES.

- a. Purpose: Instil among students a sense of responsibility towards judiciously using natural resources like water and electricity
- b. Method: Using their phones / hand-held devices, groups of students will make a 3 – 4 minute short film that will highlight irresponsible behavior in terms of wastage of water, leaving lights, fans and other electrical appliances on when not in use, defacing public and campus property by scribbling on walls and common areas. They will make awareness for the same among students. The creative videos will be posted on the college website and social media as an encouragement
- c. Outcome: Conscientious behavior towards saving public utility resources. Explore the use of audio-visual tools to create more meaningful messages that can effect a change in society

##### 3. RELAY MARATHON (3 – 5 kms)

- a. Purpose: Propagate a social message by way of a sport activity
- b. Method: A group of students will begin the race with banner / placard in hand that contains a social message. The group runs for 500 meters and hands over the banner / placard to the next group of students. This chain of exchange will continue for 3 – 5 kms.
- c. Outcome: Become aware of the need for fitness and encouragement towards healthier lifestyle. Students will also be able to express their creativity in terms of meaningful messages and gain attention towards worthy social causes from the community in and around the campus.

##### 4. TREE PLANTATION ON CAMPUS

- a. Purpose: Involve students to actively participate in environment protection and develop greener surroundings
- b. Method: Each student will plant a sapling and take care of that plant until it is able to sustain itself. Alternatively, students can organize a tree plantation drive in a public area and nurture it
- c. Outcome: Besides increase in plants in the locality, students will feel a sense of empowerment and become social contributors towards protecting the environment.

##### 5. VISIT TO AN OLD AGE HOME / ORPHANAGE

- a. Purpose: Build a sense of responsibility towards the less fortunate in our society and feel privileged to be able to effect real change in the world around us
- b. Method: Students have to visit an old age home or orphanage in the vicinity of the college. They can interact with the inmates, probably donate utilities to the charity organization and/or probably stage a few inclusive activities with the residents of the place. After the visit, students can submit a brief report about their experience
- c. Outcome: Learn first-hand about the conditions and social situations that the no-so-privileged members of our society have to endure to survive and go beyond their



embarrassment to interact with the destitute which will help students appreciate the importance of Indian family values

#### 6. STREET PLAY ACTIVITY

- a. Purpose: Create awareness in themselves as well as people in the community on various social evils that need to be eradicated
- b. Method: Students will prepare and enact a street play on any pertinent issues in society. The topics suggested can be perils of mobile phones / online fraud / safety for girls / mental and physical health of the youth.
- c. Outcome: Allow students to deliberate and think deeply about the looming issues that is dogging our society and the future of the youth. This will also bring out the creative skills among the students and allow them to showcase their talent.

#### 7. BUDDY / BIG BROTHER SYSTEM

- a. Purpose: Include and involve the less fortunate children making them feel wanted and cared for as well as use the opportunity to share knowledge among school students.
- b. Method: Students have to go to nearby schools after procuring appropriate permissions to teach a particular topic on either technical or non technical domains. Each student can choose to adopt 5 students from the class to be their mentor over a period of 1 year by staying in touch with them and helping them resolve their issues on academic or other matters.
- c. Outcome: Appreciation and respect towards the responsibility of teaching. They will learn to be accountable as social contributors and bring about some change in the lives of the young students they mentor as Buddies or Big Brother.

### Term Work Assessment Guidelines

**Students must submit the report of all conducted activities** conducted during Tutorial (Outside Classroom) of at least 04 activities (out of 07 activities) from group (of 02-03) students.

The brief guidelines for report preparations are as follows:

1. One activity report must be of maximum 3 pages;
2. Combined Report of all activities with cover pages, table of contents and certificate (signed by instructor) is to be submitted in soft copy (pdf) format only.
3. The report must contain:
  - General information about the activity;
  - Define the purpose of the activity;
  - Detail out the activities carried out during the visit in chronological order;
  - Summarize the operations / process (methods) during the activities;
  - Describe what you learned (outcomes) during the activities as a student;
  - Add photos of the activity;(optional)
  - Add a title page to the beginning of your report;
  - Write in clear and objective language; and
  - Get well presented, timely and complete report submitted.

#### Recommended Assessment and Weightage Parameters:

( Attendance 30%, Assignments/Activities-Active participation and proactive learning 50% and report 20%)



## Learning Resources

### Books:

1. A. Alavudeen, M. Jayakumaran, and R Kalil Rahman, "Professional Ethics and Human Values"
2. Ram Ahuja, "Social Problems in India" (third edition)
3. Shastri, T. S. N., "India and Human rights: Reflections", Concept Publishing Company India Pvt. Ltd., 2005.
4. Nirmal, C.J., "Human Rights in India: Historical, Social and Political Perspectives (Law in India)", Oxford India
5. Rangarajan, "Environmental Issues in India", Pearson Education.
6. University of Delhi, The Individual and Society, Pearson Education.
7. Wikipedia.org / wiki /social studies.
8. M. N. Srinivas, "Social change in modern India", 1991, Orient Longman.
9. David Mandelbaum, Society in India, 1990, Popular.
10. Dr. Abha Singh, "Behavioral Science: Achieving Behavioral Excellence for Success", Wiley.

### e-Books:

- <https://www.moteoo.org/en/products/social-science-and-humanities-student-book-english>
- <https://www.springeropen.com/books>  
(SpringerOpen open access books; download them free of charge from SpringerLink)
- <https://muse.jhu.edu/article/541846/pdf>  
(This content has been declared *free* to read by the publisher during the COVID-19)

### @The CO-PO Mapping Matrix

CO\PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO1	-	-	-	-	-	-	2	2	2	-	-	-
CO2	-	-	-	-	-	-	2	-	-	-	-	-
CO3	-	-	-	-	-	-	-	2	2	-	-	1
CO4	-	-	-	-	-	-	2	2	2	-	-	-
CO5	-	-	-	-	-	-	-	2	-	-	-	-
CO6	-	-	-	-	-	-	-	-	-	-	-	-