



GUJARAT TECHNOLOGICAL UNIVERSITY

Bachelor of Engineering – Semester 6
Specialization / Minor Degree in Global Citizenship Personality Development
Subject Code : 116AQ01
Subject Name : Technology and Society

Type of Course : Compulsory

Prerequisite : Zeal to learn the subject

Rationale :

1. To make students aware about impact of technology on societal development.
2. To understand various technological hardware and software tools.
3. Impact of communication technologies on society.
4. Protection of human rights through ethical usage of technology

Teaching and Examination Scheme :

Teaching Scheme			Credits	Examination Marks				Total Marks
L	T	P		Theory Marks		Practical Marks		
			ESE (E)	PA (M)	ESE (V)	PA (I)		
2	2	0	3	70	-	30	-	100

Content :

Sr. No.	Content	Total Hrs
1	Introduction: Food security, health, education, security, services, economic growth etc, technological changes and societal impact, social mobilization; identify pros and cons of technological factors affecting the society.	6
2	Communication media and technologies: Print media; Electronics media; internet media; hardware and software component of technology; telecommunication, satellite communication, internet network, publications, electronics channels (radio and TV), social media.	6
3	Impact of technology on society: Awareness about local, national and international news, developments, events, updates; Education, commerce and business. Disruptive use of media and technology for political advantages, economical benefits, terrorizing the population, misguide the mass by hiding the important contents and news; Working for benefits of limited people; Neglecting the adverse impact of contents on society.	7
4	Individual, societal and organizational efforts to overcome adverse effects of technology: Self-awareness and understanding the neutrality of use of technology; safe guard the public interest by virtue of direct or indirect actions; control misuse of technology by means of regulatory system; Representing the common good; Legal/illegal counterpoints.	5
5	Global efforts for ethics and human rights on usage of technology: Societal and non government organizational awareness; Control of media by national or international ethical and legal framework; Efforts by United Nations.	4



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Suggested Specification table with Marks (Theory) :

Distribution of Theory Marks					
R Level	U Level	A Level	N Level	E Level	C Level
10%	20%	20%	20%	15%	15%

Legends: R: Remembrance; U: Understanding; A: Application, N: Analyze and E: Evaluate C: Create and above Levels (Revised Bloom's Taxonomy)

Note : This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Reference Books :

- An Exploration of Technology and its Social Impact by SavvasKatsikides, Cambridge Scholars Publishing.
- The Societal Impact of Technology by Savvas A. Katsikides, Taylor & Francis Group.
- About the Impact of Technology Upon Society by Sanam Mukhtar, GRIN Verlag.
- Human Rights in Global Perspective: Anthropological Studies of Rights, Claims and Entitlements by Jon P. Mitchell, Richard A. Wilson, 2003 Routledge.

Course Outcomes :

Sr. No.	CO statement	Marks % weightage
CO-1	To make students aware about impact of technology on societal development.	10%
CO-2	Students will understand various technological hardware and software tools.	15%
CO-3	Students will learn about impact of communication technologies on society.	30%
CO-4	Students will know the global efforts to overcome adverse effects of technology for global citizenship.	30%
CO-5	Students will be able to understand protection of human rights through ethical usage of technology.	15%



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Indicative Assignments/Tutorials :

1. Identify the issues of new and existing development for each technology over the society.
2. Derive adverse effect of negativity spread across the society using various communication technologies and steps to reduce it.
3. Explain positive and negative impact of technology on society and how to overcome the negative impact.
4. How you can identify the facts of any social events (consider any one such as pandemic situation due to COVID-19) and what is your neutral understating about the event.
5. What is your role at various positions such as political leader, global citizen, head of any organization (like NGO, UN, WHO) to resolve the social issues with neutrality.
6. Describe what kind of ethics and human rights applied using national or international ethical and legal framework to control the media.

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