**Programme** 

Name/s

### SOCIAL AND LIFE SKILLS

: Architecture Assistantship/ Automobile Engineering./ Artificial Intelligence/

Agricultural Engineering/

Artificial Intelligence and Machine Learning/ Automation and Robotics/

Architecture/ Cloud Computing and Big Data/

Civil Engineering/ Chemical Engineering/ Computer Technology/ Computer

Engineering/

Civil & Rural Engineering/ Construction Technology/ Computer Science &

**Engineering/ Fashion & Clothing Technology/** 

Dress Designing & Garment Manufacturing/ Digital Electronics/ Data Sciences/

**Electrical Engineering/** 

**Electronics & Tele-communication Engg./ Electrical Power System/ Electronics** 

& Communication Engg./ Electronics Engineering/

Food Technology/ Computer Hardware & Maintenance/ Hotel Management &

Catering Technology/ Instrumentation & Control/

**Industrial Electronics/ Information Technology/ Computer Science &** 

Information Technology/ Instrumentation/

Interior Design & Decoration/ Interior Design/ Civil & Environmental

**Engineering/ Mechanical Engineering/** 

Mechatronics/ Medical Laboratory Technology/ Medical Electronics/ Production

Engineering/

Printing Technology/ Polymer Technology/ Surface Coating Technology/ Textile

Technology/

Electronics & Computer Engg./ Travel and Tourism/ Textile Manufactures

: AA/ AE/ AI/ AL/ AN/ AO/ AT/ BD/ CE/ CH/ CM/ CO/ CR/ CS/ CW/ DC/ DD/

DF/

**Programme Code** 

DS/ EE/ EJ/ EP/ ET/ EX/ FC/ HA/ HM/ IC/ IE/ IF/ IH/ IS/ IX/ IZ/ LE/ ME/

MK/ ML/ MU/ PG/ PN/ PO/ SC/ TC/ TE/ TR/ TX

Semester : Second

Course Title : SOCIAL AND LIFE SKILLS

Course Code : 312003

### I. RATIONALE

Rationale: Life skills can be defined as abilities that enable humans to deal effectively with the demands and challenges of life. Social skills are a subset of life skills that are needed for successful, healthy relationships to easily adapt when moving from one social situation to the next. They help regulate our emotions effectively and develop enduring, supportive relationships, we're happier and healthier. This is why developing life skills and eventually social skills is key not only to being successful in life, it's key for our health and well-being. Thus, Teaching of Social and life skills provide students with essentials of knowing, understanding attitudes, values, morals, social skills and better equip them to handle stress and build their self efficacy, self esteem and self confidence.

Note: The course offers five different alternatives (modules) for achieving above outcomes. Students must complete any one module from the following given options.

a. MODULE-I: Unnat Maharashtra Abhiyan (UMA)

b. MODULE-II: National Service Scheme (NSS)

- c. MODULE-III: Unniversal Human Values
- d. MODULE-IV: Value Education (Unnati Foundation)
- e. MODULE-V: Financial Literacy (NABARD)

The institute can choose to offer any one MODULE to the groups of the students by taking into consideration the resources required and resources available in the institute. Different group of students maybe offered different MODULE based on their choices.

### II. INDUSTRY / EMPLOYER EXPECTED OUTCOME

Demonstrate critical social and life skills ethics, resilience, positive attitude, integrity and self-confidence at workplace and society at large.

## III. COURSE LEVEL LEARNING OUTCOMES (COS)

Students will be able to achieve & demonstrate the following COs on completion of course based learning

- CO1 Enhance the ability to be fully self-aware and take challenges by overcoming all fears and insecurities and grow fully.
- CO2 Increase self-knowledge and awareness of emotional skills and emotional intelligence at the place of study/work.
- CO3 Provide the opportunity to realizing self-potential through practical experience while working individually or in group.
- CO4 Develop interpersonal skills and adopt good leadership behaviour for self-empowerment and empowerment of others.
- CO5 Set appropriate life goals with managing stress and time effectively.

## IV. TEACHING-LEARNING & ASSESSMENT SCHEME

				L	earı	ning	g Sche	eme					A	ssess	ment	Sch	eme										
Course Code	e Course Title	Course Title	Abbr	Abbr	Course Category/s	Course Category/s	Course Category/s	Course Category/s	Course Category/s	Actual Contact Hrs./Week		SLH NLI	NLH	Credits	Paper Duration	Theory		Based on LL & TL  Practical		&	Based on SL		Total				
														TL	TLLL			1	Duration	FA- TH	SA- TH	10		FA-		SA-	
			1								Max	Max	Max	Min	Max	IVIIN	Max	IVIIN	Max	Wiin							
312003	SOCIAL AND LIFE SKILLS	SFS	VEC	-	-	-	2	2	1	-	-	-	-	d	-	-	_	Ì	50	20	50						

### **Total IKS Hrs for Sem.:** Hrs

Abbreviations: CL- ClassRoom Learning, TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS - Indian Knowledge System, SLA - Self Learning Assessment

Legends: @ Internal Assessment, # External Assessment, \*# On Line Examination , @\$ Internal Online Examination

Note:

- 1. FA-TH represents average of two class tests of 30 marks each conducted during the semester.
- 2. If candidate is not securing minimum passing marks in FA-PR of any course then the candidate shall be declared as "Detained" in that semester.
- 3. If candidate is not securing minimum passing marks in SLA of any course then the candidate shall be declared as fail and will have to repeat and resubmit SLA work.
- 4. Notional Learning hours for the semester are (CL+LL+TL+SL)hrs.\* 15 Weeks
- 5. 1 credit is equivalent to 30 Notional hrs.
- 6. \* Self learning hours shall not be reflected in the Time Table.
- 7. \* Self learning includes micro project / assignment / other activities.

## V. THEORY LEARNING OUTCOMES AND ALIGNED COURSE CONTENT

Sr.No Theory Learning O (TLO's)aligned to	tearning CO's.	earning Outcomes (T and CO's.	LO's) Suggeste Peda	d Learning gogies.

Sr.No	Theory Learning Outcomes (TLO's)aligned to CO's.	Learning content mapped with Theory Learning Outcomes (TLO's) and CO's.	Suggested Learning Pedagogies.
1	TLO 1.1 Explain	Unit - I MODULE I : Activities	i) Group discussion
	developmental needs and	Under Unnat Maharashtra	ii) Role play
	connection of various	Abhiyan (UMA)	iii) Case study
	stakeholders	1.1 Introduction to Societal Needs	iv) Seminar and presentation
	TLO 1.2 Enlist the local	and respective stakeholders:	
	problems	Regional societal issues that need	<b>Implementation guidelines</b>
	TLO 1.3 Design a	engineering intervention	suggested
	methodology for fieldwork	1.2 Multidisciplinary approach-	
	TLO 1.4 Select the	linkages of academia, society and	The course will be
	attributes of engineering	technology	implemented in eight
7	and social system for	1.3 Stakeholders' involvement	sessions and fieldwork:
	measurement,	1.4 Introduction to Important	a) Session I - Introduction to
	quantification, and	secondary data sets available such as	development paradigm,
	documentation	census, district economic surveys,	fieldwork and case study as
	TLO 1.5 Measure &	cropping pattern, rainfall data, road	pedagogy
	quantify the quantities /	network data etc	b) Session II - VII - Society,
	systems parameters	1.5 Problem Outline and stakeholders	stakeholders and value
	TLO 1.6 Write a report	:	creation, measurements,
	using information collected	Importance of activity and connection	rudimentary analysis and
	tStudy the data collected	with Mapping of system components	reporting
	from fieldwork and	and stakeholders (engineering /	c) Session VIII - Final
	conclude the observations	societal)	closure session feedback and
		1.6 Key attributes of measurement	assessment
		1.7 Various instruments used for data	d) Field work -
		collection - survey templates, simple	1. Pilot Visit - Pilot of
		measuring equipments	survey instrument
		1.8 Format for measurement of	2. Survey Visit 1 - Data
		identified attributes/ survey form and	gathering / Information
· U		piloting of the same	Collection
		1.9 Fieldwork :	3. Survey Visit 2 - Data
		Measurement and quantifications of	gathering
		local systems such as agriculture	4. Summary Visit - Closure
		produce, rainfall, Road network,	after analysis
		production in local industries,	
		Produce /service which moves from A	Methodology:
		to B	Considering the nature of the
		1.10 Analysis and Report writing	course designed, following
		Report writing containing-	points shall be considered
		1. Introduction of the topic	while implementing the
		2. Data collected in various formats	course.
		such as table, pie chart, bar graph etc	i) Regroup in the batches of
		3. Observations of field visits and	5-6 students for conducting
		data collected.	the fieldwork from the
			bigger group.
			ii) Assign a few batches of

SOCI	AL AND LIFE SKILLS	Course Code: 312003	
Sr.No	Theory Learning Outcomes (TLO's)aligned to CO's.	Learning content mapped with Theory Learning Outcomes (TLO's) and CO's.	Suggested Learning Pedagogies.
			the students for this course to all the faculty members. iii) A group of course teachers will visit local governance bodies such as Municipal Corporations, Village Panchayats, Zilla Parishads, Panchayat Samitis to assess the small technological / engineering needs in their area of work. iv) The group of course teachers will carry out initial field visits to evaluate the various possibilities of field visits / various scenarios where in students can conduct field work to measure / quantify the parameters / attributes.

Sr.No	Theory Learning Outcomes (TLO's)aligned to CO's.	Learning content mapped with Theory Learning Outcomes (TLO's) and CO's.	Suggested Learning Pedagogies.
2	TLO 2.1 Adopt a Village or Slum for providing needed services to the community TLO 2.2 Carry out Survey to identify the problems of village community TLO 2.3 Unsertake Special camping about developmental programs TLO 2.4 Establish the liaisons between government and other developmental agencies for the implementations of various development schemes of Government	Unit - II MODULE II: National Service Scheme (NSS)  2.1 Contacting Village/Area Leaders 2.2 Primary socio economic survey of few villages in the vicinity of the institute.  2.3 Selection of the village for adoption - conduct of activities 2.4 Comprehensive Socio Economic Survey of the Village/Area  2.5 Identification of Problem(s)  2.6 Dissemination of information about the latest developments in agriculture, watershed management, wastelands development, non- conventional energy, low cost housing, sanitation, nutrition and personal hygiene, schemes for skill development, income generation, government schemes, legal aid, consumer protection and allied fields.  2.7 A liaison between government and other development agencies for the implementation of various development schemes in the selected village / slum.	(i) The teachers should visit the village / slum before adopting it for NSS activities. (ii) The selected area should be compact. (iii) The community people should be receptive to the ideas of improving their living standard. They should also be ready to coordinate and involve in the projects undertaken by the NSS for their upliftment. (iv) The areas where political conflicts are likely to arise should be avoided by the NSS units. (v) The area should be easily accessible to the NSS volunteers to undertake frequent visits to slums.

Sr.No	Theory Learning Outcomes (TLO's)aligned to CO's.	Learning content mapped with Theory Learning Outcomes (TLO's) and CO's.	Suggested Learning Pedagogies.
3	TLO 3.1 Demonstrate Love and Compassion (Prem and Karuna) in the society TLO 3.2 Follow the path of Truth (Satya) TLO 3.3 Practice Non-Violence (Ahimsa) TLO 3.4 Follow the Righteousness (Dharma) TLO 3.5 Attain Peace (Shanti) in Life TLO 3.6 Provide Service (Seva) to the needy person/community. TLO 3.7 Demonstrate Renunciation (Sacrifice) Tyaga TLO 3.8 Practice Gender Equality and Sensitivity	Unit - III MODULE-III: Universal Human Values  3.1 Love and Compassion (Prem and Karuna): Introduction, Practicing Love and Compassion (Prem and Karuna)  3.2 Truth (Satya): Introduction, Practicing Truth (Satya)  3.3 Non-Violence (Ahimsa): Introduction, Practicing Non-Violence (Ahimsa)  3.4 Righteousness (Dharma): Introduction, Practicing Righteousness (Dharma)  3.5 Peace (Shanti): Introduction, Practicing Peace (Shanti)  3.6 Service (Seva): Introduction, Practicing Service (Seva)  3.7 Renunciation (Sacrifice) Tyaga: Introduction, Practicing Renunciation (Sacrifice) Tyaga  3.8 Gender Equality and Sensitivity: Introduction, Practicing Gender Equality and Sensitivity	i) Lectures ii) Demonstration iii) Case Study iv) Role Play v) Observations vi) Portfolio Writing vii) Simulation viii) Motivational talks by Practitioners ix) Site/Industry Visit



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SOCL	AL AND LIFE SKILLS	Course Code: 31200	
Sr.No	Theory Learning Outcomes (TLO's)aligned to CO's.	Learning content mapped with Theory Learning Outcomes (TLO's) and CO's.	Suggested Learning Pedagogies.
	Honesty	Learning 4.6 Respect, Comparing, OCSEM -	
		Public Speaking, Student referral	
	TLO 4.10 Practice for	process, Attending a phone call,	
	Forgive and Forget	Being a Good Team Player,	
		Placement Process, At a Restaurant,	
		Workplace ethics	
		4.7 Team Spirit, Inviting someone,	
		OCSEM - Picture Reading & Word, a.	
		Unnati Philosophy & b. Unnati	
	/3 - /	Branding - Follow, Like & Share	
		Unnati Social Media - Facebook /	
		Instagram/ Twitter, Apologizing,	
		Apologizing, Dealing effectively with	
		Criticism, Introduce Importance of	
		Self Learning and upskilling	
		4.8 Caring and Sharing , Handling	
		Customer queries, Flexibility &	
	and the second	Adaptibility, Student referral process, Writing a Resume, OCSEM-Public	
	(0)	Speaking, Placement Process,	
		Meditation/ Affirmation & OCSEM-	
		Debate, Introduce Certif-ID, how to	
		create Certif-ID Project,	
		4.9 Honesty, Email etiquette &	
		Official Email communication,	
		Alcohol & Substance use & abuse,	
		Describing a known place,	
		Leadership Skills, Describing an	
		event, OSCEM-Picture Reading &	
		Visual Comprehension	
		4.10 Forgive and Forget, Facing and	
		Interview, OSCEM-Public Speaking,	
		Attending a telephonic/Video	
		interview & Mock Interview ,	
		Affirmation, Pat-a-Back & Closure	
		(Valediction, Unnati Branding, Student Testimonials), Meditation/	
		Affirmation & Sponsor connect	
		Ammation & Sponsor connect	

Sr.No	Theory Learning Outcomes (TLO's)aligned to CO's.	Learning content mapped with Theory Learning Outcomes (TLO's) and CO's.	Suggested Learning Pedagogies.
5	TLO 5.1 Develop Literacy About Savings and Investments in the community TLO 5.2 Attain Literacy About Financial Planning TLO 5.3 Demonstrate skills about Financial Transactions TLO 5.4 Use Literacy skills About Income, expenditure and budgeting TLO 5.5 Use measures about Inflation in the market. TLO 5.6 Use Literacy/Knowledge About Loans TLO 5.7 Explain the Importance of Insurance TLO 5.8 Follow Dos and	Unit - V MODULE-V: Financial Literacy 5.1 Introduction - Life Goals and financial goals 5.2 Savings and Investments - Three pillars of investments, Popular asset classes, Government schemes, Mutual Funds, Securities markets (Shares and bonds), Gold, Real Estate, Do's and Don'ts of investments 5.3 Retirement planning 5.4 Cashless transactions 5.5 Income, expenditure and budgeting – Concepts and Importance 5.6 Inflation- Concept, effect on financial planning of an individual 5.7 Loans – Types, Management of loans, Tax benefits 5.8 Insurance – Types, Advantages, selection 5.9 Dos and Donts in Financial	
	Donts about finances	planning and Transactions	

# VI. LABORATORY LEARNING OUTCOME AND ALIGNED PRACTICAL / TUTORIAL EXPERIENCES: NOT APPLICABLE.

# VII. SUGGESTED MICRO PROJECT / ASSIGNMENT/ ACTIVITIES FOR SPECIFIC LEARNING / SKILLS DEVELOPMENT (SELF LEARNING)

# Suggestive list of activities during Regular as well as Special Camping (NSS Activities)

- Following list is only an illustrative list of the type of activities that can be undertaken. Under the programme it would be open to each NSS Unit to undertake one of these programmes or any other activity which may seem desirable to them according to local needs. The NSS Unit should aim at the integrated development of the area selected for its operation which could be a village or a slum. It has also to be ensured that at least a part of the programme does involve manual work.
- (a) Environment Enrichment and Conservation:

The activities under this sub-theme would inter-alia, include:

- (i) plantation of trees, their preservation and upkeep
- (ii) Construction & maintenance of village streets, drains
- (iii) Cleaning of village ponds and wells;
- (iv) Popularization and construction of Gobar Gas Plants, use of non-conventional energy;
- (v) Disposal of garbage & composting;
- (vi) Prevention of soil erosion and work for soil conservation,

- (vii) Watershed management and wasteland development
- (viii) Preservation and upkeep of monuments, and creation of consciousness about the preservation of cultural heritage among the community.
- (b) Health, Family Welfare and Nutrition Programme:
- (i) Programme of mass immunization;
- (ii) Working with people in nutrition programmes with the help of Home Science and medical college students;
- (iii) Provision of safe and clean drinking water;
- (iv) Integrated child development programmes;
- (v) Health education, AIDS Awareness and preliminary health care.
- (vi) Population education and family welfare programme;
- (vii) Lifestyle education centres and counselling centres.
- © Programmes aimed at creating an awareness for improvement of the status of women: (i) programmes of educating people and making them aware of women's rights both constitutional and legal;
- (ii) creating consciousness among women that they too contributed to economic and social well-being of the community;
- (iii) creating awareness among women that there is no occupation or vocation which is not open to them provided they acquire the requisite skills; and
- (iv) imparting training to women in sewing, embroidery, knitting and other skills wherever possible.
- (d) Social Service Programmes:
- (i) work in hospitals, for example, serving as ward visitors to cheer the patients, help the patients, arranging occupational or hobby activities for long term patients; guidance service for out-door-patients including guiding visitors about hospital's procedures, letter writing and reading for the patients admitted in the hospital; follow up of patients discharged from the hospital by making home visits and places of work, assistance in running dispensaries etc.
- (ii) work with the organisations of child welfare;
- (iii) work in institutions meant for physically and mentally handicapped;
- (iv) organising blood donation, eye pledge programmes;
- (v) work in Cheshire homes, orphanages, homes for the aged etc.;
- (vi) work in welfare organisations of women;
- (vii) prevention of slums through social education and community action;
- (e) Production Oriented Programmes:
- (i) working with people and explaining and teaching improved agricultural practices;
- (ii) rodent control land pest control practices;
- (iii) weed control;
- (iv) soil-testing, soil health care and soil conservation;
- (v) assistance in repair of agriculture machinery;
- (vi) work for the promotion and strengthening of cooperative societies in villages;
- (vii) assistance and guidance in poultry farming, animal husbandry, care of animal health etc.;
- (viii) popularisation of small savings and assistance in procuring bank loans
- (f) Relief & Rehabilitation work during Natural Calamities:

- (i) assisting the authorities in distribution of rations, medicine, clothes etc.;
- (ii) assisting the health authorities in inoculation and immunisation, supply of medicine etc.;
- (iii) working with the local people in reconstruction of their huts, cleaning of wells, building roads etc.;
- (iv) assisting and working with local authorities in relief and rescue operation;
- (v) collection of clothes and other materials, and sending the same to the affected areas;
- (g) Education and Recreations: Activities in this field could include:
- (i) adult education (short-duration programmes);
- (ii) pre-school education programmes;
- (iii) programmes of continuing education of school drop outs, remedial coaching of students from weaker sections;
- (iv) work in crèches;
- (v) participatory cultural and recreation programmes for the community including the use of mass media for instruction and recreation, programmes of community singing, dancing etc.;
- (vi) organisation of youth clubs, rural land indigenous sports in collaboration with Nehru Yuva Kendras;
- (vii) programmes including discussions on eradications of social evils like communalism, castism, regionalism, untouchability, drug abuse etc.;
- (viii) non- formal education for rural youth and
- (ix) legal literacy, consumer awareness.

## VIII. LABORATORY EQUIPMENT / INSTRUMENTS / TOOLS / SOFTWARE REQUIRED

Sr.No	<b>Equipment Name with Broad Specifications</b>	Relevant LLO Number
1	Simple engineering measurement devices GPS data collection tools GIS open source softwares- Google Earth and QGIS MS office suite	All

# IX. SUGGESTED WEIGHTAGE TO LEARNING EFFORTS & ASSESSMENT PURPOSE (Specification Table): NOT APPLICABLE

### X. ASSESSMENT METHODOLOGIES/TOOLS

### Formative assessment (Assessment for Learning)

• Formative assessment (Assessment for Learning) Report and presentation of fieldwork activities, Self-Learning (Assignment)

## **Summative Assessment (Assessment of Learning)**

## XI. SUGGESTED COS - POS MATRIX FORM: NOT APPLICABLE

### XII. SUGGESTED LEARNING MATERIALS / BOOKS

SOCL	AL AND LIFE SKILLS	ourse Code : 312003	
Sr.No	Author	Title	Publisher with ISBN Number
1	IRAP, Hyderabad, CTARA, IIT Bombay and UNICEF, Mumbai	Compendium of Training Materials for the Capacity Building of the Faculty and Students of Engineering Colleges on 'IMPROVING THE PERFORMANCE OF RURAL WATER SUPPLY AND SANITATION SECTOR IN MAHARASHTRA' Districts Economic survey reports	UNICEF
2	Central Public Health and Environmental Engineering Organisation	Manual on Water Supply and Treatment	Ministry of Urban Development, New Delhi
3	Specifications And Standards Committee	Indian Standards (IS) Codes and Indian Roads Congress (IRC) Codes	Bureau of Indian Standards and The Indian Road Congress
4	Prepared by each district administration	Districts Economic survey reports	Govt. of Maharashtra
5	Local college students, UMA staffs	Sample Case Studies on UMA website	IITB-UMA team

## XIII. LEARNING WEBSITES & PORTALS

Sr.No	Link / Portal	Description
1	https://gr.maharashtra.gov.in/Site/Upload/Government%20Resolutions/English/201601131501523808.pdf	Government Resolution of Government of Maharashtra regarding Unnat Maharashtra Abhiyan
2	https://gr.maharashtra.gov.in/Site/Upload/Government%20Resolutions/English/201606151454073708.pdf	Government Resolution of Government of Maharashtra regarding Unnat Maharashtra Abhiyan Guidelines
3	https://censusindia.gov.in/census.website/	A Website of Census of India
4	https://gsda.maharashtra.gov.in/english/	A Website of Groundwater Survey and Development Agency, GoM
5	https://mrsac.gov.in/MRSAC/map/map	A Website where district-wise maps showcasing different attributes developed by Maharashtra Remote Sensing Applications Centre.
6	https://ejalshakti.gov.in/jjmreport/JJMIndia.aspx	A Website of Jal Jivan Mission, Government of India
7	https://cpcb.nic.in/	A Website of Central Pollution Control Board, Government of India

Sr.No	Link / Portal	Description
8	http://www.mahapwd.com/#	A Website of Public Works Department, GoM
9	http://tutorial.communitygis.net/	A Website for GIS data sets developed by Unnat Maharashtra Abhiyan
10	https://youtu.be/G71maumVZ1A?si=TzDTxKUpLYaRos7U	A video record of lecture by Prof. Milind Sohoni, IIT Bombay, on Engineering, Development and Society
11	https://youtu.be/TUcPNwtdKyE?si=wnSWrhGc9dJTC-ac	A keynote talk by Prof. Milind Sohoni, IIT Bombay, on Interdisciplinary Engineering: The Road Ahead
12	https://youtu.be/mKJj6j_1gWg?si=ajE8s4lfB2OM63Ng	A TED talk by Prof. Milind Sohoni, IIT Bombay, on Vernacular Science: The Science of Delivery
13	https://www.ugc.gov.in/pdfnews/4371304_LifeSKill_JeevanKaushal_2023.pdf	UHV: UGC Course on life skils. Unit 4 i.e. Course 4 is to be referred
14	https://nss.gov.in/	NSS: Know about the NSS Scheme and details

MSBTE Approval Dt. 29/11/2023

Semester - 2, K Scheme