Course Code: 312003

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 Software Technology/ Computer Science & Engineering/

Fashion & Clothing Technology/ Dress Designing & Garment Manufacturing/ Digital

Electronics/ Data Sciences/

Electrical Engineering/ Electronics & Tele-communication Engg./ Electrical and Electronics

Engineering/ Electrical Power System/

Programme Name/s Electronics & Communication Engg./ Electronics Engineering/ Food Technology/ Computer

Hardware & Maintenance/

Hotel Management & Catering Technology/ Instrumentation & Control/ Industrial

Electronics/Information Technology/

 $Computer\ Science\ \&\ Information\ Technology/\ Instrumentation/\ Interior\ Design\ \&\ Science\ And Science$

Decoration/Interior Design/

Civil & Environmental Engineering/ Mechanical Engineering/ Mechatronics/ Medical

Laboratory Technology/

Manufacturing Technology/ Medical Electronics/ Production Engineering/ Printing

Technology/

Polymer Technology/ Surface Coating Technology/ Computer Science/ Textile Technology/

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

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

Programme Code DE/ DS/ EE/ EJ/ EK/ EP/ ET/ EX/ FC/ HA/ HM/ IC/ IE/ IF/ IH/ IS/ IX/ IZ/

LE/ ME/ MK/ ML/ MR/ MU/ PG/ PN/ PO/ SC/ SE/ 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.

SOCIAL AND LIFE SKILLS

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

	/ . /9 :			I	earı	ning	Sche	me					- A:	ssessi	ment	Sche	eme			V	
Course Code	Course Title	Abbr	Course Category/s	C	Actual Contact Hrs./Week SLH NLH Credits Paper Practical Practical		Theory		&	Based on SL		Total									
1		/		CL	TL	LĻ				Duration	FA- TH	SA- TH	То	tal	FA-	-PR	SA-	PR	SL		Marks
					ī.,						Max	Max	Max	Min	Max	Min	Max	Min	Max	Min	
312003	SOCIAL AND LIFE SKILLS	SFS	VEC	-		-	2	2	1	ı	-	-	-	1	1	-	11		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 Outcomes (TLO's)aligned to CO's.	Learning content mapped with Theory Learning Outcomes (TLO's) and CO's.	Suggested Learning Pedagogies.

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

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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.
	(1LO s)anglied to CO s.	Learning Outcomes (1 LO s) and CO s.	field work to measure / quantify the parameters / attributes.
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	(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.
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	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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: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
4	TLO 4.1 Demonstrate	MODULE-IV: Value Education (Unnati	i) Video Demonstrations
	Puntuality appropriately	Foundation)	Take 1
	/	4.1 Punctuality, Icebreaker and Simple	ii) Flipped Classroom
	The same of the sa	Greeting, Understanding & Managing	
	/ / / / / / / / / / / / / / / / / / /	Emotions, Introducing Self, The power of a	iii) Case Study
	/ // = /	Positive Attitude, Talking about one's Family,	
	TLO 4.2 Practice Cleanliness,	Talking about one's Family, Making a Positive	iv) Role Play
	Hygiene and Orderliness for	Impression, Give word list for a Word based	11) 1000 1 100
	self and others	4.2 Cleanliness , Hygiene and Orderliness ,	v) Collaborative learning
	sen and seners	Likes and Dislikes, Developing Confidence in	v) condocidit o fedi imig
		Self and Others, Strengths and Weaknesses,	vi) Cooperative Learning
	The second		vi) Cooperative Learning
	TI O 4.2 Talas Damanaihilita	Listening Skills, Greeting gestures, Gender	::) Challa Daand
	TLO 4.3 Take Responsibility	Equality and Sensitivity	vii) Chalk-Board
	and Calculated Risks	4.3 Responsibility, OCSEM- Visual	
		Comprehension and Word Based Learning,	
		Goal Setting – Make it happen, Follow, Like	
	Laure L. Barr	& Share Unnati Social Media - Facebook /	
	TLO 4.4 Demonstrate	Instagram/ Twitter Introducing Others, Time	1 28(1 1
	Gratitude and Appreciations	Management, Talking about the daily routine,	
	1 100 1 100	Money Management	
		4.4 Gratitude and Appreciation, Asking	7 /
	TLO 4.5 Show Determination	Simple Questions & Asking for the price,	/ /
	& Persistence about work	Stress Management, Student Referral process	
		,Comprehending & Paraphrasing Information,	
		A Plate of Rice and Dignity of Labour, Topics	
	TLO 4.6 Give Respect as per	for Public Speaking, Placement Process,	
	the social norms and practice	OCSEM-E-Newspaper, Critical Thinking to	
	the social norms and practice		
		overcome challenges	
		4.5 Determination and Persistence, Guiding	
		and Giving Directions, Language Etiquette &	
	TV 0 4 5 D	Mannerism, . Unnati Philosophy , b. Unnati	
	TLO 4.7 Respect Team Spirit	Branding - Follow, Like & Share Unnati	
	to the acceptable level	Social Media - Facebook / Instagram/ Twitter,	
		Simple instructions to follow procedures,	
		Assertiveness, Give topics for Debate,	
	TLO 4.8 Practice Caring &	Describing a person/Objects, Refusal Skills,	
	Sharing among fellow	Word List for Word based Learning	
	citizens/community	4.6 Respect, Comparing, OCSEM - Public	
		Speaking, Student referral process, Attending	
		a phone call, Being a Good Team Player,	
	TLO 4.9 Demonstrate Honesty	Placement Process, At a Restaurant,	
		Workplace ethics	
		4.7 Team Spirit, Inviting someone, OCSEM -	TALLA.
	TLO 4.10 Practice for Forgive	Picture Reading & Word, a. Unnati	66.24
	and Forget	Philosophy & b. Unnati Branding - Follow,	
	und i orget	Like & Share Unnati Social Media -	
	/ /2 = /	Facebook / Instagram/ Twitter, Apologizing,	1 64 1
	/ / 3.75"/		
	1 ACT 1/ 1	Apologizing, Dealing effectively with	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Criticism, Introduce Importance of Self	111
	All and the second	Learning and upskilling	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		4.8 Caring and Sharing, Handling Customer	1 44 1
		queries, Flexibility & Adaptibility, Student	
		referral process, Writing a Resume, OCSEM-	
		Public Speaking, Placement Process,	

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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.
17 1		Meditation/ Affirmation & OCSEM-Debate,	
1		Introduce Certif-ID, how to create Certif-ID	1 28/1 1
	\ Lb \ 	Project,	
	1 1000 / 1000	4.9 Honesty, Email etiquette & Official Email	- / / /
		communication, Alcohol & Substance use &	7 / 100 5 7 1
		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 (Speak to	
		UNXT HO)	
	TLO 5.1 Develop Literacy	MODULE-V : Financial Literacy	
	About Savings and	5.1 Introduction - Life Goals and financial	
	Investments in the community	goals	
	TLO 5.2 Attain Literacy About	5.2 Savings and Investments - Three pillars of	
	Financial Planning	investments, Popular asset classes,	
	TLO 5.3 Demonstrate skills	Government schemes, Mutual Funds,	
	about Financial Transactions	Securities markets (Shares and bonds), Gold,	i) Online/Offline Mode of
	TLO 5.4 Use Literacy skills	Real Estate, Do's and Don'ts of investments	Instructions
	About Income, expenditure	5.3 Retirement planning	ii) Video Demonstrations
5	and budgeting	5.4 Cashless transactions	iii) Presentations
	TLO 5.5 Use measures about	5.5 Income, expenditure and budgeting –	iv) Case Study
	Inflation in the market.	Concepts and Importance	v) Chalk-Board
	TLO 5.6 Use	5.6 Inflation- Concept, effect on financial	vi) Collaborative learning
	Literacy/Knowledge About	planning of an individual	\
	Loans	5.7 Loans – Types, Management of loans, Tax	
	TLO 5.7 Explain the	benefits	
	Importance of Insurance	5.8 Insurance – Types, Advantages, selection	
١	TLO 5.8 Follow Dos and	5.9 Dos and Donts in Financial planning and	The State of the S
1. 1	Donts about finances	Transactions	1 471 1

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;

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- (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:

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- (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.

Note:

- Above is just a suggestive list of microprojects and assignments; faculty must prepare their own bank of microprojects, assignments, and activities in a similar way.
- The faculty must allocate judicial mix of tasks, considering the weaknesses and / strengths of the student in acquiring the desired skills.
- If a microproject is assigned, it is expected to be completed as a group activity.
- SLA marks shall be awarded as per the continuous assessment record.
- For courses with no SLA component the list of suggestive microprojects / assignments/ activities are optional, faculty may encourage students to perform these tasks for enhanced learning experiences.
- If the course does not have associated SLA component, above suggestive listings is applicable to Tutorials and maybe considered for FA-PR evaluations.

VIII. LABORATORY EQUIPMENT / INSTRUMENTS / TOOLS / SOFTWARE REQUIRED

Sr.No	Equipment Name with Broad Specifications	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

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SOCIAL A	ND LIFE SI	KILLS					Cour	se Co	de: 3	12003
		Oi	Programme Specific Outcomes* (PSOs)							
Course Outcomes (COs)	PO-1 Basic and Discipline Specific Knowledge	PO-2 Problem Analysis	PO-3 Design/ Development of Solutions		PO-5 Engineering Practices for Society, Sustainability and Environment	PO-6 Project Management		1	PSO-	PSO-3
CO1					03	03	03			
CO2					02	02	03			
CO3	01	01	01		03	03	03			
CO4		01	01	01	03	03	03			
CO5		02		01	03	03	03			

Legends: - High:03, Medium:02, Low:01, No Mapping: -

XII. SUGGESTED LEARNING MATERIALS / BOOKS

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	Prepared by each district administration	Districts Economic survey reports	Govt. of Maharashtra
3	Local college students, UMA staffs	Sample Case Studies on UMA website	IITB-UMA team
4	Central Public Health and Environmental Engineering Organisation	Manual on Water Supply and Treatment	Ministry of Urban Development, New Delhi
5	Specifications And Standards Committee	Indian Standards (IS) Codes and Indian Roads Congress (IRC) Codes	Bureau of Indian Standards and The Indian Road Congress
6	RBI	https://www.rbi.org.in/FinancialEducation/content/GUIDE310113_F.pdf	RBI
7	RBI	https://www.rbi.org.in/FinancialEducation/content/ Financing%20needs%20of%20Micro%20and%20small%20Enterprises%20- %20A%20guide.pdf	RBI
8	RBI	https://www.rbi.org.in/FinancialEducation/content/I%20Can%20Do_RBI.pdf	RBI

XIII. LEARNING WEBSITES & PORTALS

Sr.No	Link / Portal	Description

^{*}PSOs are to be formulated at institute level

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Sr.No	Link / Portal	Description
1	https://gr.maharashtra.gov.in/Site/Upload/Government%20Resol utions/English/201601131501523808.pdf	Government Resolution of Government of Maharashtra regarding Unnat Maharashtra Abhiyan
2	https://gr.maharashtra.gov.in/Site/Upload/Government%20Resol utions/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://epcb.nic.in/	A Website of Central Pollution Control Board, Government of India
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_JeevanKaush al_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
15	https://www.rbi.org.in/FinancialEducation/FinancialEnterpre nure.aspx	Reference for Module V
16	https://www.rbi.org.in/FinancialEducation/content/I%20Can%20 Do_RBI.pdf	Reference for Module V
17	https://www.rbi.org.in/FinancialEducation/content/ Financ ing%20needs%20of%20Micro%20and%20small%20Enterprises%20- %20A %20guide.pdf	Reference for Module V
18	https://www.rbi.org.in/FinancialEducation/content/GUIDE31011 3_F.pdf	Reference for Module V

Note:

• Teachers are requested to check the creative common license status/financial implications of the suggested online educational resources before use by the students