"Dissemination of Education for Knowledge, Science and Culture."
- Shikshanmaharshi Dr. Bapuji Salunkhe

SHRI SWAMI VIVEKANAND SHIKSHAN SANSTHA'S

VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

2130, 'E' Ward, Tarabai Park,
Tal. Karveer, Dist. Kolhapur - 416 003.
Affiliated to Shivaji University, Kolhapur (M.S.)

NAAC Reaccredited : "A" (CGPA - 3.24 in 3rd Cycle)
College with Potential Excellence by U.G.C., New Delhi
"Star College" by D.B.T. Govt. of India
ISO 9001 : 2015

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Founder	President	Chairman	Secretary	Principal
Dr. Bapuji Salunkhe D.Lit.	Hon. Chandrakant Dada Patil Higher and Technical Education Minister, Maharashtra	Prin. Abhaykumar Salunkhe M.A.	Prin. Mrs. Shubhangi Gawade M.Sc., B.Ed.	Dr. R. R. Kumbhar M.Sc.,M.Phil.,Ph.D.

1.3 Curricular Enrichment

1.3.1 Institution integrates cross-cutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability and other value framework enshrined in Sustainable Development Goals and National Education Policy – 2020 into the Curriculum

Cross cutting issues charts 2023 - 24

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Dr. R. R. Kumbhar
PRINCIPAL
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Kolhapur.

								c) Monuments	c) Importance of History for the preparation of Competitive Examinations
20	Indian Art & Architecture - II	SEC-AF	2020-21						Modern and Contemporary Indian art and Architecture.
B.A.(History) revised syllabus between 2021-22 to 2023-24									
21	History of Ancient India-I	DSC-1020A	2021-22	Historiographical Approaches of Historians about Ancient Indian History		Vedic Period to Historic Period a) Vedic & Post Vedic Era (Society, Economy & Religious beliefs) b) Causes of Second Urbanization c) 16 Mahajanpada (Sabha, Samiti)	Paleolithic Culture, Mesolithic Culture, Neolithic Culture		**Indus Valley Civilization** B. Origin, Extent, Chronology, Town Planning Socio-Economic-Religious Beliefs, Seals, Trade, Scripts and Decline **Foreign Traveler Accounts-** Magesthanis (Indica), Fahiyan, Huen-Tsang
22	History of Ancient India-	DSC-1020 B	2021-22		Gautam Buddha	Pre-Mauryan Empires	Vardhman Mahaveer &		The Age of Guptas

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	II				& Buddhism	a. Causes of Religious Reformation b. Contribution of Buddhism & Jainism to Art , Architecture & Literature c. Emperor Ashoka and His Dhamma	Jainism		D. Polity, Society, Administration & Economy E. Developments in Art, Architecture - Literature & Golden Age - debate F. Vardhan Dynastry- Polity, Society, Administration, Economy and Religion
23	History of Modern Europe-I00	DSC-1020 C-1	2022-23			French Revolution-1789 4. Causes 5. Course 6. Effects		Unification of Italy & Germany 1. Nature 2. Scope 3. Importance	
24	Making of Modern India (1757-1947)	DSC-1020 C-2	2022-23	Establishment and Expansion of British East India Company 1. Plassy war 2. Baxuar War 3. Mysore War's (Haider Ali, Tipu Sultan)		Gandhi Era 1. Gandhian Philosophy, Early Satyagraha in South Africa 2. Non-Cooperation Movement 3. Civil			1857 Revolt 1. Causes 2. Nature, Scope, Causes for defeat of rebels 3. Impact & Queens Proclamation

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						Disobedience Movement 4. Quit India Movement			
25	IDS-History of Social Reformers in Maharashtra –I	DSC-1025 C	2022-23	Early Phase of British Rule 1. Administration, Law & Justice 2. Education & Press 3.The work of the missionaries		Life & Work of Mahatma Phule 1. Early Life & Women's Education 2. Social Work 3. Satyashodhak Samaj 4. Other contribution (Religious, Literary, Political etc.)			
26	History of Modern Europe-II	DSC-1020 D-1	2022-23				First & Second World Wars 1. Causes 2. Nature / Course 3. Effects of War, Paris Peace Conference	Age of Bismarck 1. Internal Policy 2. External Policy	
27	Towards Independence (1920-1947)	DSC-1020 D-2	2022-23	Partition and its aftermath 1. Concept of communalism 2. Partition – causes & effects 3. Integration of		Indian Constitution 1. Understanding Acts of 1909, 1919,1935 & it's impact 2. Process of		Other Strands of Freedom Movement 1. Communist & Socialist	Contribution of Revolutionaries 1. Bengal 2. Maharashtra 3. Punjab

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				Princely States: Hyderabad, Junagad, Kashmir		Constitution making 3. Silent Features of Constitution			
28	IDS-History of Social Reformers in Maharashtra – II	DSC-1025 D	2022-23		Women Reformers 1.Savitribai Phule 2. Pandita Ramabai 3. Ramabai Ranade	Social Reformers 1. Social reforms of Chh. Shahu Maharaj 2. Social reforms of Vitthal Ramji Shinde 3.Social reforms of Dr. Babasaheb Ambedkar			Educational Reformers 1. Dr. Punjabro Deshmukh 2. Karmveer Bhaurao Patil 3. Dr. Bapuji Salunkhe
29	History of Mughal India-I (1526-1707)	DSC-1020 E-1	2023-24	**Sources** a) Literary: Sources in Farsi , Marathi, and Sanskrit languages. b) Archaeological sources c) Foreign travellers' account: Factory Records & Fransis Bernier			**Rural Economy & Society** a) Agricultural Production, Techniques & Crop Patterns, irrigation b) Land Revenue System c) The Village community	**Trade & Commerce** a) Trade routes & Internal trade, Mode of Transports b) Indian ocean trade network in 17th century	
30	History of Sultanate -I (1206- 1550)	(DSC-1020 E-2)	2023-24	**Sources and Historiography:** a. Foreign Sources (Persian Sources)	Razia Sultana (1236-1240)		Agricultural Experiment in Doab Region		

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				b. Indian Sources (Vernacular Sources) c. Archaeological Sources (Epigraphic)					
31	India Since Independence-I	DSC-1020 E-3	2023-24				**Agriculture (1947-1991)** b) Green revolutions	**Agriculture (1947-1991)** a) Land reforms: Zamindari Abolition, Land Ceiling, Bhoodan Movement	
32	Research in History	DSC-1020 E-5	2023-24	**Tools of Writing History** a) Notes Taking and end notes b) Index and bibliography c) Dating				**Acquisition of Historical Data** a) Survey, Interview, questionnaire b) Archives and Newspapers c) Internet, Radio, T.V., Short films Unit	**Process of History Writing** a) Selection of Topic b) Chapter scheme c) Evaluation of Sources d) Presentation Unit
33	Indian Art & Architecture -I	SEC-AE	2023-24						Rock art; Harappan arts

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									and crafts
34	History of Mughal India-II (1526-1707)	DSC-1020 F-1	2023-24	**Cultural Developments** a) Visual: Paintings, Sculpture b) Performing Art: Music, Dance, Vocal c) Mughal Architecture		**Religion & Culture** c) Sufis Saint Tradition, Vaishnavism		**Urban Centres** a) Urban economy, crafts industries, Imperial Karkhanas & Textile	
35	History of Sultanate -II (1206- 1550)	DSC-1020 F-2	2023-24			**Society & Economy During Vijayanagar and Bahamani Empire** a. Social Condition b. Religious Condition			**Art and Architecture during Sultanate** Art b. Architecture c. Literature
36	India Since Independence-II	DSC-1020 F-3	2023-24		Women's movements: Manjushri Sarda Case and Bhavridevi Case	**Foreign policy** a) Principles of Indian Foreign Policy b) Non alignment movement c) India's role in international politics: U.S.A and U.S.S.R	a) Environmental Movement		**Post Independent Economy** a) Five-year Plans b) Industrial Development: - Cotton, Steel and Cement c) Trade: Import & Export
37	Administration, Society & Economy	DSC-1020 F-4	2023-24				Agrarian System: Land Revenue, Irrigation		

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	Under Maratha Period (1600 AD to 1680)								
38	Applications of History	DSC-1020 F-5	2023-24					**Conservation and Preservation** a) Documents b) Paintings c) Monuments	**Careers in History** a) Tourism Industry b) Museums and Archives c) Importance of History for the preparation of Competitive Examinations
39	Indian Art & Architecture - II	SEC-AF	2023-24						Modern and Contemporary Indian art and Architecture.
NEW SYLLABUS INTRODUCED AS PER NEP-2020									
40	History of Ancient India (Major/Minor) - I	(DSC01 HIS11) / (MIN01 HIS11)	2023-24	Historiographical Approaches of Historians about Ancient Indian History		Vedic Period to Historic Period a) Vedic & Post Vedic Era (Society, Economy & Religious beliefs) b) Causes of Second Urbanization c) 16 Mahajanpada	Paleolithic Culture, Mesolithic Culture, Neolithic Culture		**Indus Valley Civilization** C. Origin, Extent, Chronology, Town Planning Socio-Economic-Religious Beliefs, Seals, Trade, Scripts and

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						(Sabha, Samiti)			Decline **Foreign Traveler Accounts-** Magesthanis (Indica), Fahiyan, Huen-Tsang
41	Study of Museums-(VSC)- I	VSC01 HIS11	2023-24	**Collections and Conservation** Collection management practices Acquisitions and deaccessioning					**Case Studies in Museum Studies** a. In-depth analysis of selected museums and exhibits b. Exploring successful museum initiatives and projects c. Study of Chh. Shivaji Maharaj Museum

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									d. Study of Town Hall Museum
42	Science & Education in Ancient India - (IKS)	IKS01HIS11	2023-24						**Introduction to Ancient Indian Science and Education** a. Overview of ancient Indian civilization b. Key concepts and principles of ancient Indian science c. Education Systems in Ancient India (Gurukula system: structure, curriculum) Science in Art, Architecture & Sculptures
43	Science & Education in Ancient India - (IKS)	IKS01HIS11	2023-24						**Advancements** a. Astronomy, astrology& Mathematics (e.g.,

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									Aryabhata, Brahmagupt b. Medicine and Ayurveda (e.g. Charaka, Sushruta) c. Linguistics, Grammar & Literature (eg. Panini, Kalidas & other) Metallurgy and Technology
44	Modi Script Studies (SEC)-I	SEC01 HIS11	2023-24	Skills in interpreting Modi documents: Types of Modi documents, linguistic features of Modi documents, study of documents					Introduction of Modi script, emergence, history, usage
45	History of Ancient India (Major/Minor) - II	(DSC01 HIS21) / (MIN01 HIS21)	2023-24		Gautam Buddha & Buddhism	Pre-Mauryan Empires a. Causes of Religious Reformation b. Contribution of Buddhism & Jainism to Art ,	Vardhman Mahaveer & Jainism		The Age of Guptas G. Polity, Society, Administration & Economy H. Developmen

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						Architecture & Literature c. Emperor Ashoka and His Dhamma			ts in Art, Architecture - Literature & Golden Age - debate I. Vardhan Dynastry- Polity, Society, Administration, Economy and Religion
46	Study of Museums (VSC)-II	VSC01 HIS21	2023-24	**Types of Museums** a. Art museums b. History museums c. Science and technology museums d. Specialized museums (e.g., maritime, military, cultural)					
47	Modi Script Studies (SEC)-II	SEC01 HIS21	2023-24	Skills in interpreting Modi documents: Types of Modi					

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				documents, linguistic features of Modi documents, study of documents					
48	Community Engagement in History (CEP)	CEP01 HIS21	2023-24					**Historical Preservation and Community Development** a. Heritage preservation and community revitalization b. Historical tourism and its impact on local communities c. Sustainable approaches to preserving and promoting local heritage	

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									Introduction to Community Engagement in History a. Community-Based Research Methods (eg. Survey, Interviews, Questionnaire) b. Historical perspective on community involvement in historical research

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-Shikshanmaharshi Dr. Bapuji Salunkhe

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Dept. of History

(स्वायत्त) कोल्हापूर

Content with cross cutting issues P.G.

Sr. No.	Name of the course	Course Code	Year of Introduction	Professional Ethics	Gender	Human Values	Environment & Sustainability	Sustainable Development goals	NEP-2020
M.A.(History) newly introduced syllabus between 2022-23 to 2023-24									
1	History of Ancient India-I	DSC08 HIS11	2022-23	Historiographical Approaches of Historians about Ancient Indian History		Vedic Period to Historic Period a) Vedic & Post Vedic Era (Society, Economy & Religious beliefs) b) Causes of Second Urbanization	Paleolithic Culture, Mesolithic Culture, Neolithic Culture		**Indus Valley Civilization** A. Origin, Extent, Chronology, Town Planning Socio-Economic-Religious Beliefs, Seals, Trade, Scripts and Decline

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						c) 16 Mahajanpada (Sabha, Samiti)			**Foreign Traveler Accounts-** Magesthanis (Indica), Fahiyan, Huen-Tsang
2	Research Methodology in History-I	VSC01 HIS31	2022-23	**Tools of Writing History** a) Notes Taking and end notes b) Index and bibliography c) Dating				**Acquisition of Historical Data** a) Survey, Interview, questionnaire b) Archives and Newspapers c) Internet, Radio, T.V., Short films Unit	**Process of History Writing** a) Selection of Topic b) Chapter scheme c) Evaluation of Sources d) Presentation Unit
3	History of Sultanate -I (1206- 1550)	DSC08 HIS12	2022-23	**Sources and Historiography:** a. Foreign Sources (Persian Sources) b. Indian Sources (Vernacular Sources) Archaeological Sources	Razia Sultana (1236-1240)		Agricultural Experiment in Doab Region		

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				(Epigraphic)					
4	History of Social Reformers in India-I	DSC08 HIS13	2022-23	Early Phase of British Rule 1. Administration, Law & Justice 2. Education & Press 3.The work of the missionaries		Life & Work of Mahatma Phule 1. Early Life & Women's Education 2. Social Work 3. Satyashodhak Samaj 4. Other contribution (Religious, Literary, Political etc.)			
5	History of Modern India-I - (1757-1857)	DSE08 HIS11	2022-23	**Understanding Modern India (1757-1857)** a) Feudalism, Mercantilism, Colonialism b) Imperialism, Capitalism, Democracy Communalism, Neo-Marxism, Socialism, Orientalism				**British Administration** a. Provincial Administration b. Land Revenue System c. Education Judicial System	
6	History of	DSC08	2022-23		Gautam Buddha	Pre-Mauryan	Vardhman		The Age of

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	Ancient India-II	HIS21			& Buddhism	Empires a. Causes of Religious Reformation b. Contribution of Buddhism & Jainism to Art , Architecture & Literature c. Emperor Ashoka and His Dhamma	Mahaveer & Jainism		Guptas A. Polity, Society, Administration & Economy B. Developments in Art, Architecture - Literature & Golden Age - debate C. Vardhan Dynastry- Polity, Society, Administration, Economy and Religion
7	History of Modern India - (1757-1857)	DSE08 HIS21	2022-23				**Agriculture Economy** a.Rural Economy: Agriculture, Crop Pattern, Irrigation b. Commercialization of Agriculture - causes & impact Land Revenue Systems: Zamindari,	**Trade & Commerce** Industry- Cotton, Steel and Other Trade & Commerce Import & Export Establishment of Trade organizatio	

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							Permanent Settlement Act, Rayatvari, Mahalvari	ns	
8	Society, Economy, Culture During Sultanate Era-II	DSC08 HIS22	2022-23			**Society & Economy During Vijayanagar and Bahamani Empire** a. Social Condition b. Religious Condition			**Art and Architecture during Sultanate** Art b. Architecture c. Literature
9	History of Social Reformers in Maharashtra-II	DSC08 HIS23	2022-23		Women Reformers 1.Savitribai Phule 2. Pandita Ramabai 3. Ramabai Ranade	Social Reformers 1. Social reforms of Chh. Shahu Maharaj 2. Social reforms of Vitthal Ramji Shinde 3.Social reforms of Dr. Babasaheb Ambedkar			Educational Reformers 1. Dr. Punjabro Deshmukh 2. Karmveer Bhaurao Patil 3. Dr. Bapuji Salunkhe
10	History of	DSC08	2023-24	**Sources**			**Rural Economy &**	**Trade &**	

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	Mughal India (1526-1707) -I	HIS31		a) Literary: Sources in Farsi , Marathi, and Sanskrit languages. b) Archaeological sources c) Foreign travellers' account: Factory Records & Fransis Bernier			**Society** a) Agricultural Production, Techniques & Crop Patterns, irrigation b) Land Revenue System c) The Village community	**Commerce** a) Trade routes & Internal trade, Mode of Transports b) Indian ocean trade network in 17th century	
11	History of Modern India (1757-1920)-I	DSC08 HIS32	2023-24	Establishment and Expansion of British East India Company 1. Plassy war 2. Baxuar War 3. Mysore War's (Haider Ali, Tipu Sultan)		Gandhi Era 1. Gandhian Philosophy, Early Satyagraha in South Africa 2. Non-Cooperation Movement 3. Civil Disobedience Movement 4. Quit India Movement			1857 Revolt 1. Causes 2. Nature, Scope, Causes for defeat of rebels 3. Impact & Queens Proclamation
12	India Since Independence-I	DSC08 HIS33	2023-24				**Agriculture (1947-1991)** b) Green revolutions	**Agriculture (1947-1991)** a) Land reforms: Zamindari Abolition, Land Ceiling,	

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								Bhoodan Movement	
13	Women in Indian History-I	DSE08 HIS31	2023-24	o	**Introduction to Women's History in India** a. Feminism: Definition, Origin & Evolution Approaches and methodologies in studying women's history : Liberal, Marxist, Radical, Post Modern			**Sources** a. Archival: Govt Files, official reports, Census, Private Papers Non-Archival: Sacred, Non Sacred, epigraphy, Diaries, Memories, Autobiographies, Fictions, Songs, Folk Lore, Oral History & Photographs	
14	History of Mughal India (1526-1707 A.D.) -II	DSC08 HIS41	2023-24	**Sources** a) Literary: Sources in Farsi , Marathi, and Sanskrit languages. b) Archaeological sources c) Foreign travellers' account:			**Rural Economy & Society** a) Agricultural Production, Techniques & Crop Patterns, irrigation b) Land Revenue System	**Trade & Commerce** a) Trade routes & Internal trade, Mode of Transports b) Indian ocean trade	

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				Factory Records & Fransis Bernier			c) The Village community	network in 17th century	
15	History of Modern India (1920-1947)-II	DSC08 HIS42	2023-24	Partition and its aftermath 1. Concept of communalism 2. Partition – causes & effects 3. Integration of Princely States: Hyderabad, Junagad, Kashmir		Indian Constitution 1. Understanding Acts of 1909, 1919,1935 & it's impact 2. Process of Constitution making 3. Silent Features of Constitution		Other Strands of Freedom Movement 1. Communist & Socialist	
16	India since Independence (1947-2000)-II	DSC08 HIS43	2023-24		Women's movements: Manjushri Sarda Case and Bhavridevi Case	**Foreign policy** a) Principles of Indian Foreign Policy b) Non alignment movement c) India's role in international	a) Environmental Movement		**Post Independent Economy** a) Five-year Plans b) Industrial Development: - Cotton, Steel and Cement c) Trade: Import & Export

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						politics: U.S.A and U.S.S.R			
17	Women in Indian History-II	DSE08 HIS41	2023-24		**Women's condition during 19th Century** Women's social condition- Satipratha, Child Marriage, Devdasi & Women Slavery Women Education & Economic Condition Acts of women emancipations during British Era				**Religion and Women** a. Brahmnical Tradition b. Jainism c. Buddhism d. Islam e. Christianity Bhakti Movement
19	History of Ancient India-I	DSC-1020A	2021-22	Historiographical Approaches of Historians about Ancient Indian History		Vedic Period to Historic Period a) Vedic & Post Vedic Era (Society, Economy & Religious beliefs) b) Causes of Second Urbanization	Paleolithic Culture, Mesolithic Culture, Neolithic Culture		**Indus Valley Civilization** B. Origin, Extent, Chronology, Town Planning Socio-Economic-Religious Beliefs, Seals, Trade, Scripts and Decline

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						c) 16 Mahajanpada (Sabha, Samiti)			**Foreign Traveler Accounts-** Magesthanis (Indica), Fahiyan, Huen-Tsang
20	History of Ancient India-II	DSC-1020 B	2021-22		Gautam Buddha & Buddhism	Pre-Mauryan Empires a. Causes of Religious Reformation b. Contribution of Buddhism & Jainism to Art , Architecture & Literature c. Emperor Ashoka and His Dhamma	Vardhman Mahaveer & Jainism		The Age of Guptas D. Polity, Society, Administration & Economy E. Developments in Art, Architecture - Literature & Golden Age - debate F. Vardhan Dynastry- Polity, Society, Administration, Economy and Religion
21	History of Modern Europe-I00	DSC-1020 C-1	2022-23			French Revolution-1789 1. Causes 2. Cours		Unification of Italy & Germany 1. Nature 2. Scope 3. Importance	

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						e 3. Effect s			
22	Making of Modern India (1757-1947)	DSC-1020 C-2	2022-23	Establishment and Expansion of British East India Company 1. Plassy war 2. Baxuar War 3. Mysore War's (Haider Ali, Tipu Sultan)		Gandhi Era 1. Gandhian Philosophy, Early Satyagraha in South Africa 2. Non-Cooperation Movement 3. Civil Disobedience Movement 4. Quit India Movement			1857 Revolt 1. Causes 2. Nature, Scope, Causes for defeat of rebels 3. Impact & Queens Proclamation
23	IDS-History of Social Reformers in Maharashtra –I	DSC-1025 C	2022-23	Early Phase of British Rule 1. Administration, Law & Justice 2. Education & Press 3.The work of the missionaries		Life & Work of Mahatma Phule 1. Early Life & Women's Education 2. Social Work 3. Satyashodhak Samaj 4. Other contribution			

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						(Religious, Literary, Political etc.)			
24	History of Modern Europe-II	DSC-1020 D-1	2022-23				First & Second World Wars 1. Causes 2. Nature / Course 3. Effects of War, Paris Peace Conference	Age of Bismarck 1. Internal Policy 2. External Policy	
25	Towards Independence (1920-1947)	DSC-1020 D-2	2022-23	Partition and its aftermath 1. Concept of communalism 2. Partition – causes & effects 3. Integration of Princely States: Hyderabad, Junagad, Kashmir		Indian Constitution 1. Understanding Acts of 1909, 1919,1935 & it's impact 2. Process of Constitution making 3. Silent Features of Constitution		Other Strands of Freedom Movement 1. Communist & Socialist	Contribution of Revolutionaries 1. Bengal 2. Maharashtra 3. Punjab
26	IDS-History of Social Reformers in Maharashtra – II	DSC-1025 D	2022-23		Women Reformers 1.Savitribai Phule 2. Pandita Ramabai 3. Ramabai	Social Reformers 1. Social reforms of Chh. Shahu Maharaj			Educational Reformers 1. Dr. Punjabro Deshmukh 2. Karmveer Bhaurao Patil

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					Ranade	2. Social reforms of Vitthal Ramji Shinde 3.Social reforms of Dr. Babasaheb Ambedkar			3. Dr. Bapuji Salunkhe
27	History of Mughal India-I (1526-1707)	DSC-1020 E-1	2023-24	**Sources** a) Literary: Sources in Farsi , Marathi, and Sanskrit languages. b) Archaeological sources c) Foreign travellers' account: Factory Records & Fransis Bernier			**Rural Economy & Society** a) Agricultural Production, Techniques & Crop Patterns, irrigation b) Land Revenue System c) The Village community	**Trade & Commerce** a) Trade routes & Internal trade, Mode of Transports b) Indian ocean trade network in 17th century	
28	History of Sultanate -I (1206- 1550)	(DSC-1020 E-2)	2023-24	**Sources and Historiography:** c. Foreign Sources (Persian Sources) d. Indian Sources (Vernacular Sources) e. Archaeological Sources	Razia Sultana (1236-1240)		Agricultural Experiment in Doab Region		

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				(Epigraphic)					
29	India Since Independence-I	DSC-1020 E-3	2023-24				**Agriculture (1947-1991)** b) Green revolutions	**Agriculture (1947-1991)** a) Land reforms: Zamindari Abolition, Land Ceiling, Bhoodan Movement	
30	Research in History	DSC-1020 E-5	2023-24	**Tools of Writing History** a) Notes Taking and end notes b) Index and bibliography c) Dating				**Acquisition of Historical Data** a) Survey, Interview, questionnaire b) Archives and Newspapers c) Internet, Radio, T.V., Short films Unit	**Process of History Writing** a) Selection of Topic b) Chapter scheme c) Evaluation of Sources d) Presentation Unit
31	Indian Art & Architecture -I	SEC-AE	2023-24						Rock art; Harappan arts and crafts
32	History of Mughal India-II (1526-1707)	DSC-1020 F-1	2023-24	**Cultural Developments** a) Visual: Paintings,		**Religion & Culture** a) Sufis Saint		**Urban Centres** a) Urban economy,	

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				Sculpture b) Performing Art: Music, Dance, Vocal c) Mughal Architecture		Tradition, Vaishnavism		crafts industries, Imperial Karkhanas & Textile	
33	History of Sultanate -II (1206- 1550)	DSC-1020 F-2	2023-24			**Society & Economy During Vijayanagar and Bahamani Empire** a. Social Condition b. Religious Condition			**Art and Architecture during Sultanate** Art b. Architecture c. Literature
34	India Since Independence-II	DSC-1020 F-3	2023-24		Women's movements: Manjushri Sarda Case and Bhavridevi Case	**Foreign policy** a) Principles of Indian Foreign Policy b) Non alignment movement c) India's role in international politics:	a) Environmental Movement		**Post Independent Economy** a) Five-year Plans b) Industrial Development: - Cotton, Steel and Cement c) Trade: Import & Export

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						U.S.A and U.S.S.R			
35	Administration, Society & Economy Under Maratha Period (1600 AD to 1680)	DSC-1020 F-4	2023-24				Agrarian System: Land Revenue, Irrigation		
36	Applications of History	DSC-1020 F-5	2023-24					**Conservation and Preservation** a) Documents b) Paintings c) Monuments	**Careers in History** a) Tourism Industry b) Museums and Archives c) Importance of History for the preparation of Competitive Examinations

Dr. S. R. Kattimani
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Dr. R. R. Kumbhar
PRINCIPAL
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(EMPOWERED AUTONOMOUS)

								• Photographs or Satellite Imagery • Exercise with Google Earth Program. • Surveying	
BA Geography (Revised between 2021-22 to 2023-24)									
19	**Introduction to Physical Geography**	DSC-1022A	2021-22	• Analyze the Geo-environmental Issues around the world.	•		• Approaches to the basic concepts of Physical Geography Spatial distribution of World water Resources	• Use and Over Utilization of Surface and Ground Water Water Conservation, Rain Water Harvesting, Water shade Management	Increase Scientific Temper Origin of Universe, Earth, Exogenetic-Endogenetic Forces, Planetary Winds, Hydrological Cycle, Diastrophism Continental and Mountain Building

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20	**Introduction Human Geography**	DSC-1022B	2021-22			• Importance of Human Settlements • Evolution of Man • The Bases of Racial Classification • Factors affecting Rural Settlements • Functions of Rural Settlements	• Evolution of Man - Stages & Processes of Human Evolution • Human Geography & its relation with Science Social Science	• Growth of Population in the Worl • Concept of Fertility & Mortality • Urbanization	• Community Participation: Bases of Racial Classification, Major Racial Groups
21	**Science, Technology & Development**	**(GEC) -1**	2021-22	Eminent Scientists in the development of S& T	•	Human Health	Importance of Power resources	• Human Blood, AIDS a Challenge before world, facts	
22	**Science, Technology & Development**	**(GEC) -II**	2021-22	• Means of Communication		Science Technology in Space Research	• Disaster Management	• Science Technology in Space Research	Satellites Recent Technology

				• Science technology in Space, Defense & Ocean Research		• Satellites Recent Technology, • Use of GIS & GPS	Earthquake, Flood, Fire, Accident, Crowd etc.	• Satellites Recent Technology, • Use of GIS & GPS Science Technology in Defence & Ocean Research DRDO, OCEAN Studies etc.	
23	**Soil Geography**	DSC-1022C1	2022-23	•	•	• Genetic Classification of Soils Soil Management: Need & Method	• Process of Soil Formation: Physical, Biotic and Chemical. • Physical Properties of Soils: Morphology, Texture, Structure	• Soil Testing • Vermi Compost Process • Soil Analysis: Saline-Alkaline	Increase Scientific Tempore by doing soil testing at lab

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							, Water, Air and Temperature. Chemical Properties of Soils: PH , Organic Matter, NPK		
24	**Resource Geography**	DSC-1022C2	2022-23	•	Practical: • Proportional Circle • Choropleth Map • Dot Map Isopleth Map	• Classification of Resources • Distribution and Production of Iron Ore, Bauxite and Manganese in USA, USSR, UK and India Problems of Energy Resources: Environmental impacts of non-	Forests and Energy Resource • Distribution and Utilization of Forest Resources: Types of Forest, Importance of Forest • Problems of Forest Resources: deforestation • Distribution and Utilizatio	• Problems of Energy Resources: Environmental impacts of non-renewable energy consumption, Future energy options	• Resource Management

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						renewable energy consumption, Future energy options (Analytical Skills)	n of Energy Resources: Non-renewable (Oil, Natural Gas, Coal) and Renewable (Solar, Hydro, Wind etc.)		
25	**Oceanography**	DSC-1022D1	2022-23	• Applied Oceanography		Applied Oceanography	• Ocean or Marine deposits: Sources and Classification • Ocean Resources – Biotic-Mineral and Energy Resources Ocean Pollution –	• Properties & Dynamics of Ocean Practical: • Hypsographic Curve • Wind Rose • Isohalines Isotherms	Scientific temperament by studying oceanography

							Causes, Effects and Measures		
26	**Agriculture Geography**	DSC-1022D2	2022-23	• Evolution of agriculture • Determinants of Agriculture • Organic Farming •			Important Agricultural Documents • Important Documents in Talathi Office • Importance of Land Revenue • Importance of Agricultural Journalism	• Major Agricultural Systems • Von Thunen's theory of agricultural land use • Agricultural Regionalization • Green revolution and Organic Farming (Analytical Skill)	
27	**Concept of Tourism Geography**	IDS 1026C	2022-23	Definition, Nature, Scope, Significance & Development of Tourism		Components of Tourism: Geographical Social, Cultural & other	Components of Tourism • Geographical, Social, Cultural	Recent Trends in Tourism • Classification on the basis of	

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				(Analytical Skills)			Recent Trends in Tourism • Classification on the basis of Nationality, Time, Number of tourists, Objectives, Transportation, Season, and Nature of Tourism Impact of Tourism • Economic, Socio-cultural, Environmental Sustainable Development in Tourism	Nationality, Time, Number of tourists, Objectives, Transportation, Season, and Nature of Tourism	
28	**Development and Planning**	DSE – 1026D	2022-23	Changing Perspectives in Ancient to			• Tourism Centers in Kolhapur	• Development of Tourism in	

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	of Tourism			Modern Tourism			• Development and Planning of Tourism in Maharashtra	Maharashtra Recent Trends in Tourism: Kolhapur District	
29	**Evolution of Geographical Thought,**	DSE 1022 E1	2023-24	• Behavior of Schools of Geographic Thoughts: German, French, American, British • Model Building in Geography • Future of Geography		Dualisms in Geography	Trends in Geography: • Model Building • Man - Nature Relationship • Radicalism, Behaviouralism & Humanism	• Schools of Geographic Thoughts: German, French, American, British • Model Building in Geography Future of Geography	Historical / Contemporary Geography
30	**Geography of India**	DSE 1022 E2	2023-24				•	• Importance of Agriculture, Industries in Indian Economy • Trade	• Participation in community services

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31	**Population Geography**	DSE 1022 E3	2023-24				• Theories of Population Growth • Population Dynamics and Pandemics • Effects of Covid 19 on Fertility, Mortality and Migration	• Population Pandemics solutions • World Population growth • World Population Distribution • Fertility, Mortality & Migration • Population Composition	•
32	**Economic Geography,**	DSE 1022 F1	2023-24				• Manufacturing Regions • Economic Zones • Major Industries and their work structure	• Impact of Covid 19on Agricultural Activities • Impact of Covid 19on Industrial Activities	

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							Trade& Transport to Industries	• Impact of Covid 19on Tourism Activities Alfred Weber's Theory of Industrial Location	
33	**Urban Geography**	DSE 1022 F2	2023-24			Urban Culture	• Urban Issues: problems of housing, slums, civic amenities (water and transport) • Case studies of Mumbai and Delhi with reference to land and urban issues • Urban problems	• Structure and Morphology • City Region and C.B.D • Rural-Urban Fringe • Models of Town Morphology: The concentric Zone Theory, The Sector Theory and the Multi-	•

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							in Kolhapur City	Nuclei Theory • Concept of Garden City • Case studies of Mumbai and Delhi with reference to land and urban issues • Urban problems in Kolhapur City	
34	**Political Geography,**	DSE 1022 F3	2023-24				• Concepts in Political Geography • Krishna Water Dispute • Ganga Water Dispute • Chandoli Dam	• Krishna Water Dispute • Ganga Water Dispute • Chandoli Dam Project: Issues of Relief, Compensa	

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							Project: Issues of Relief, Compensation and Rehabilitation • Indo-China border Issue	tion and Rehabilitation • Indo-China border Issue	
35	**Fundamentals of Map Making and Map Interpretation**	Practical Paper -I	2023-24				• Mapping of Slope, Relief Features and Profile • Topographical Maps • Weather Instruments and IMD Map •	• Map and Scales • Map Projection • Mapping of Slope, Relief Features and Profile • Topographical Maps • Weather Instruments and IMD Map • Techniques of Statistical	

								Data Periods	
36	**Advanced Tools, Techniques and Field Work**	Practical Paper -II	2023-24				• Exercise with Google Earth Program. • Association and Correlation: Karl Pearson"s Method (Product Moment) • Surveying • Field project	• Application of computer in geography - Line Graphs, Bar Graphs, f Pie Diagram and Scatter Diagram • Application of Remote Sensing in Geography • Identification of Physical and cultural features from Aerial Photographs or	

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								Satellite Imagery • Application of GIS in Geography: Land use or Land Cover, Urban Sprawl Analysis, Forests Monitoring • Exercise with Google Earth Program. • Surveying techniques	
BA I Geography under NEP (Introduced in 2023-24)									
37	**Physical Geography**	DSC01GEO11	2023-24				Studying physical geography equips students with spatial analysis, environmental	• Approaches to the basic concepts of Physical Geography	Increase Scientific Temper

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							awareness, and problem-solving abilities. These skills are sought after in various professions, fostering adaptability and critical thinking, ultimately enhancing employability prospects.	• Analyse the Geo-environmental Issues around the world.	
38	**Introduction to Physical Geography**	MIN01GEO11	2023-24				• Introduction to GIS: Meaning, Definition, Elements & Application • Introduction to GPS: Meaning, Definition, Elements & Application	GIS: Meaning, Definition, Elements & Application Introduction to GPS: Meaning, Definition, Elements & Application	Increase Scientific Temper

							• spatial analysis, environmental awareness, and problem-solving abilities.		
39	**Human Geography**	DSC01GEO21	2023-24				World Population & Migration • Growth of Population in the World • Factors Affecting the Distribution of World Population • Migration: Causes, Types &	• Factors affecting Rural Settlements • Urbanization	Non-Violence and Human Values

							consequences Human Settlements • Factors affecting Rural Settlements • Urbanization		
40	**Introduction to Human Geography**	MIN01GEO21	2023-24			• Develop basic framework of Human geography • Develop skills of making g Maps by applying GIS & GPS	World Population & Migration • Growth of Population in the World • Factors Affecting the Distribution of World Population	• Google Earth • Application of Google Earth i. Point, Line & Polygon ii. Gradient or Slope Calculation • Area Measuring	Non-Violence and Human Values

							• Migration: Causes, Types & consequences • Human Settlements • Factors affecting Rural Settlements • Urbanization		
41	**Google Earth for Geoscience Teaching and Research**	VSC01GEO11	2023-24				• map making and coordinate systems, issues regarding map scale and projections, • using maps,	• Application of Google Earth: • The interface of Google Earth • Point, Line, Polygon	Advanced Tools and Techniques

							remote sensing, geographic information systems, maps as media, emerging digital mapping technologies, and using internet mapping services		
42	**Introduction to QGIS**	VSC01GEO21	2023-24	Application and Importance of QGIS Software	•	•	• The Interface of QGIS Software • Georeferencing of Toposheet /Map • Vectorization or digitization of Toposheet /Map-	• Georeferencing of Toposheet /Map • Vectorization or digitization of Toposheet /Map-point, Line and polygon	Application and Importance of QGIS Software

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							point, Line and polygon		
43	**Advanced Surveying Tool: GPS**	SEC01 GEO11	2023-24				• Segments of GPS • Types and Importance of GPS Surveying • Data Collection with GPS • Export GPS Data to GIS Software Drafting Map Layout	• Segments of GPS • Types and Importance of GPS Surveying • Data Collection with GPS • Export GPS Data to GIS Software Drafting Map Layout	Advanced Surveying Tool: GPS
44	**Computer Application in Geography**	SEC01 GEO21	2023-24	Computer Application				• Hardware and Software Introduction to MS Word, Excel & PowerPoint	Computer Application

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45	**Ancient Indian Geographical Thought**	IKS01 GEO11	2023-24				• Ancient Geography with special reference to space & Remote Sensing Geographical Contribution of Valmiki, Aryabhatta, Varahmihira, Bhaskaracharya	Methods of studying ancient Indian Geographical Thought	Indian Knowledge System: Characteristics of Ancient Indian Geographical Thought

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Dr. R. R. Kumbhar
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Kolhapur

						ve Democracy			
18	Democratic Awareness	DSE – 1019 F 5	2020-21						Citizens Participation in Ward Committees
BA Political Science (Revised between 2021-22 and 2023-24)									
19	Political Concepts	DSC-1019A	2021-22			Liberty: Meaning and Definitions, Types of Liberty; Equality: Meaning and types, the relation between Liberty and Equality; Justice: Meaning and definitions, types of justice: social, political, economic;			

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						Rights: Meaning and characteristics, types of rights			
20	Indian Government	DSC-1019B	2021-22					Preamble of the Indian Constitution ; Fundamental Duties; Directive Principles of State policy	
21	Political Process in India	DSC-1019C1	2022-23				Farmers' Movement in India	Nature of Indian Federalism	
22	Indian Political Thought - I	DSC-1019C2	2022-23			Buddhist Political Thought; Secular nationalism		Critique of Caste System; Concept of Swarajya	
23	Political Process in Maharashtra	DSC-1019D1	2022-23			Dalit Panther Movement	Environmental Movements	The problem of reginal imbalance; Nature and problems in	

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								urbanizatio n	
24	Indian Political Thought - I	DSC-1019D2	2022-23			Critique of Caste System		Social and Political Democracy	Satya and Ahimsa; Gandhi's concept of Ramrajya
25	Contemporary Political Concepts	DSE – 1019 E 1	2023-24			Feminism Meaning, Origin and Development; Characteristics of Feminism Theories of Feminism: Liberal, Marxist, Radical	Environmentalism : Meaning and Nature, Consequences of Environmental Degradation; Sustainable Development Shallow Environmentalism and Deep Environmentalis	Human Rights : Meaning, Nature and Characteristics ; Types of Human Rights, the Declaration of Human Rights India and Human Rights; Social, Economic and Political consequences of globalization	

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26	Public Administration – I	DSE – 1019 E 2	2023-24	Principles : Hierarchy, Span of Control, Unity of Command, Coordination, Centralization and Decentralization; Concepts of Accountability and Control			m	Citizen Participation in Administration	
27	International Relations	DSE – 1019 E 3	2023-24					United Nations: Objectives, Structure and Important Organs of the UN; World Trade Organization; Regional Organization: European Union, ASEAN and	

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								SAARC	
28	Comparative Politics	DSE – 1019 E 4	2023-24	Meaning and levels of Political Participation; Meaning, channels and new trends in Political Communicatio n					
29	Western Political Thought - I	DSE – 1019 E 5	2023-24			Concept of justice		Ideal State	
30	Legal Literacy	SEC-AE	2023-24						Right to Informatio n; Lok Adalat
31	Comparative Government and Politics	DSE – 1019 F 1	2023-24					Legislature, Executive, Judiciary: USA and China	
32	Public Administrati on - II	DSE – 1019 F 1	2023-24			Right to Information		Financial Regulation: CAG, Public Accounts Committee, Estimates	

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								Committee	
33	Indian Foreign Policy	DSE – 1019 F 2	2023-24			Basic Principles of India's Foreign Policy		India in WTO	India's Nuclear Policy
34	Local Self-Government in India with Special Reference to Maharashtra	DSE – 1019 F 3	2023-24					Community Development Programme, Community Development Programme	
35	Western Political Thought – II	DSE – 1019 F 4	2023-24			John Locke: Views on Rights; Rousseau: Views on Inequality and Private Property; Karl Marx: Critique of Capitalism: Alienation			
36	Democratic Awareness	DSE – 1019 F 5	2023-24						Citizens Participation in Ward Committee

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									s
BA I Political Science introduced under NEP 2020 from the year 2023-24									
37	Introduction to Political Science	DSC01POL 11	2023-24		Equality: Meaning and Definitio ns, Types	Liberty: Meaning and Definitions, Types;			
38	Political Concepts	MIN01POL 11	2023-24					Justice: Meaning and Definitions, Types; Rights: Meaning and Definitions, Types	
39	Local Self-government - I	VSC01POL 11	2023-24						Gram Sabha – Composition and Functioning; Citizen Participation in Gram Sabha
40	Democratic Awareness	SEC01POL 11	2023-24	Role and legal framework of Civil Society Organizations and NGOs		What are Human Rights? : Framework of protection of Human Rights in India			

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41	Ancient Indian Political Thought	IKS01POL11	2023-24			Shanti parva: virtues of king			Indian Knowledge System: Characteristics of Ancient Indian Political Thought
42	Indian Constitution	DSC01POL21	2023-24			Fundamental Duties		Fundamental Rights; Directive Principles of State Policy	Important Characteristics of Indian Constitution
43	Introduction to Indian Constitution	MIN01POL21	2023-24			Preamble of the Constitution			
44	Local Self-government - II	VSC01POL21	2023-24	Functions and responsibilities of Municipal Corporation ; Language of official documents: Applications, Letters, Memos, Notifications					Composition of Ward Committees – Roles and responsibility of citizens

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45	Legal Literacy	SEC01POL 21	2023-24						
46	Constitution Awareness Workshops	CEP01POL 21	2023-24			Values of the Indian Constitution			Mass awareness on the values of the Indian Constitution

S. A. Farakate
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	vangamayacha Itihas				2. Tamasha				
15	Marathi Bhasha : Sarjan aani Upyojan	DSC 1015 F4	2020-21						
16	Eka vangamay Pravahache Adhyayan	DSC 1015 F5	2020-21				Eka Ranvedyachi Shodhayatra		

Content with Cross-cutting Issues
(2021-22 to 2023-24)

Sr. no.	Name of the Course	Course Code	Year of Introduction	Professional Ethics	Gender	Human Values	Environment & Sustainability	Sustainable Development Goals	NEP-2020 (truth (satya), righteous conduct (dharma), peace (shanti), love (prem), nonviolence (ahimsa), scientific temper, citizenship values, lifeskills; ·lessons in seva/ servic eand participatio nin community service education)
1	Sahityaruchi	DSC 1015 A	2021-22		Khadakavarachi Mhatari	Apan Manasat Jama Nahi	Tyapeksha Saral Zadach Vachave	Gorakhachi Gosht	1. Devacha Putra 2. Alpacharitra
2	Sahityaruchi	DSC 1015 B	2021-22		1. Priy Aais 2. Parakarya Pori	1. Vachaleli Manase	1. Khedyatali Ratra	1.Kolambasache Garvagit 2. Hurahur	

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						2. 29 June, 1980	2. Dnyaneshvar Samadhi Varnan		
3	Katha	DSC 1015 C1	2022-23		Niraja	Aasaram Lomate		Kiran Yele	Aasaram Lomate
4	Kavita	DSC 1015 C2	2022-23		Indira Sant	B. B. Borakar			B. R. Tambe
5	Natak	DSC 1015 D1	2022-23		Adhantar	Adhantar	Adhantar	Adhantar	Adhantar
6	Kavita	DSC 1015 D2	2022-23		Pradnya Lokhande	Namdev Dhasal		1. Namdev Dhasal 2. Vasant Abaji Dahake 3. Pradnya Lokhande	Vasant Abaji Dahake
7	Kavyashastra	DSC 1015 E1	2023-24						
8	Bhashavidnyan aani Marathi Bhasha	DSC 1015 E2	2023-24						
9	Prachin Marathi vangamayacha Itihas	DSC 1015 E3	2023-24		1. Muktabai 2. Janabai 3. Bahinabai	1. Varakari Sampraday 2.Mahanubhav Sampraday		Sant Kavi	1. Varakari Sampraday 2.Mahanubhav Sampraday
10	Marathi Bhasha : Sarjan aani Upyojan	DSC 1015 E4	2023-24						

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11	Eka vangamay Pravahache Adhyayan	DSC 1015 E5	2023-24		Chait	Chait	Chait	Chait	Chait
12	Kavyashastra	DSC 1015 F1	2023-24						
13	Bhashavidnyan aani Marathi Bhasha	DSC 1015 F2	2023-24						
14	Prachin Marathi vangamayacha Itihas	DSC 1015 F3	2023-24		Shahiri Kavya	1. Panditi Kavya 2. Shahiri Kavya 3. Bakhar Sahitya		1. Panditi Kavya 2. Shahiri Kavya 3. Bakhar Sahitya	1. Panditi Kavya 2. Shahiri Kavya 3. Bakhar Sahitya
15	Marathi Bhasha : Sarjan aani Upyojan	DSC 1015 F4	2023-24						
16	Eka vangamay Pravahache Adhyayan	DSC 1015 F5	2023-24		Aavrtan	Aavrtan	Aavrtan	Aavrtan	Aavrtan

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Prof. Dr. E. B. Alwekar
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23	English Language and Literature	DSC-1017A	2022-2023	Module I Practical English	Module IV Kusum – Khushwant Singh 3)The Cherry Tree- Ruskin Bond	Module IV 1) Kusum – Khushwant Singh The 2) Auspicious Vision – Rabindranath 3)The Cherry Tree- Ruskin Bond	Module IV- Memoirs of a Yellow Dog – O.Henry		
24	English Language and Literature	DSC-1017 B	2022-2023	Module II- Practical English Basic Translation skills Proverbs and phrases		Module IV- The Monkey's Paw – W.W.Jacobs			
25	English Language and Linguistics	DSC-1017C1	2022-2023	Module I- OralandWritten Skills FeaturesofSpoke nandWritten Language Module IV- LanguageofMed ia Multi-media- introduction todifferentforms					

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26	English Language and Linguistics	DSC-1017C2	2022-2023	Module IV- Practical English					
27	English Literature	DSC-1017D1	2022-2023		Module II Ice Candy Man by BapsiSidhwa Module IV- Ballad – La Belle Dame sans Merci – John Keats 2)My last Duchess by Robert Browning	Module II Ice Candy Man by BapsiSidhwa Module IV- 1)Ode to Duty – William Wordsworth 2)Elegy – Because I Could Not Stop for Death – Emily Dickinson 3)First ,They Said - Alice Walker	Module IV Shall I 1) Compare thee to a Summer' s day? -William Shakespeare 2)My last Duchess by Robert Browning		

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28	English Literature	DSC-1017D2	2022-2023		1)PrakashPadukone's letter to Deepika & Anisha 2)The Accidental Tourist - Bill Bryson 3)Review Writing - Mahashweta: Sudha Murthy	Hayavadana by Girish		Module – VIII 1.Interview with Ratan Tata : Mohan Thite 2.Nonliterary text: Nobel Lecture, December 10,2014 MalalaYousafza	
29	AECC-English for Business Communication	AECC-1040C	2022-2023	Module II A)E-communication 1)Electronic mail, creatingemail ID, Email discussion group, Email pals 2)Video Chat 3)Blogs-personal & professional Writing Module	Module I B)For Rita's daughter, Just Born by Eunice de SouzaModule IV C)Woman by ArunKol		Module IV-My Mistress' Eyes Are Nothing Like The Sun by William Shakespeare		

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				III-C.V. And Job Application 1)Writing Curriculum Vitae 2) Writing Job application	hatkar				
				ModuleV Writing Reports Module VI Group Discussion Module VII-Interview Techniques	Module – VII-Doctor's Word by R. K. Narayan	Module VIII-The Trees by Philip Larkin	In Time of 'The Breaking of Nations by Thomas Hardy	VIII A) Questioning The Universe : A TED Speech by Stephen Hawking	
30	Literary Criticism	DSE – 1017 E 1	2023-24		Module IV-Symbolism	Module II-Aristotle'sPoetics TheoryofImitation TheoryofCatharsis IdealTragicHero			
31	Literary Criticism	DSE – 1017F1	2023-24		Module VII-Feminism Simone de Beauvoir : Preface of *TheSecondSex*	Module V-Psychoanalytic altheory Module VI-IndianCriticism Rasa Theory			

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32	English Literature-I	DSE – 1017E 2	2023-24		Module III Othello by William Shakespeare Module IV-To His Coy Mistress - Andrew Marvell	Module III Othello by William Shakespeare Let Not Old Age Disgrace My High Desire - SirPhilip Sidney	Module II-Metaphysical Poetry 1)Let Not Old Age Disgrace 2)My High Desire - SirPhilip Sidney 3)The Sun Rising - John Donne 4)The Pulley - George Herbert		
33	English Literature -II	DSE – 1017 E3	2023-24		Module III Saint Joan - George Bernard Shaw The Module IV-Lady of Shallot-Tennyson	Module VII Mary Shelly Frankenstein 'The Spectator Club'- Richard Steel	Module IV-Dover Beach' - Matthew Arnold Still Falls the Rain - Dame Edith Sitwell	Module VIII-Of studies Francis bacon	

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34	English Literature -II	DSE -1017 –F3	2023-24			Module VII- The Boy in Stripped Pajama – John Boyne VIII-A Lesson My Father Taught Me – A.P.J. Abdul Kalam		Module VIII 1)Globalization – Joseph Stiglitz 2)In Sahyadri Hills, A Lesson in Humility – SudhaMurty 3)Youth and Tasks Ahead – Karan Singh 4)How to be a healthy user of Social Media – Pegg Kern	
35	Introduction to Translation Studies	DSE – 1017 E 4	2023-24	Module I Introduction to translation					
36	Introduction to Translation Studies	DSE – 1017 F4	2023-24	Module V Translation as a Career					
37	Linguistics	DSE - 1017E5		Module IV Introduction to Pragmatics					
38	Linguistics	DSE – 1017 F5	2023-24	Practical VIII					
39	Research Methodology								
40	Research Methodology								

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BA I English under NEP (Introduced in 2023-24)									
41	AEC-English For Communication	AEC0ENG 11	2023-24	Module- I Description Module II English For General Purposes		Module I -We wear the Mask by Paul Laurence Module II- Let's Go Home- KewlianSio			Module –I We wear the Mask by Paul Laurence Module II- Let's Go Home- KewlianSio
42	AEC- English for Communication	AEC01ENG2	2023-24	Module III- Narration A) English for General purposes	Module III ArunimaSinha :A Biography				Module III ArunimaSinha :A Biography Module IV- Because I could not Stop for Death by Emily Dickenson
43	English Language and Literature –I (Major English)	DSC01ENG 11	2023-24	Module I- PracticalEnglish		Module IV 1)TheWatchmanbyR.K.Narayan 2)ThreeHermitsbyLeoTolstoy			Module IV 1)TheNightTrainatDeolibyRuskinBond 2)ThreeHermitsbyLeoTolstoy TheBondofLoveby KennethAnderson
44	English Language and Literature –I (Major English)	DSC01ENG 21	2023-24	Module II PracticalEnglish	'TheBear'byAntonChekov	'TheBear'byAntonChekov			TheBear'byAntonChekov

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45	Introduction to English Language and Literature-1 (Minor English)	MIN01ENG11	2023-24	Module II PracticalEnglish		Module IV 1)TheWatchmanbyR.K.Narayan 2)ThreeHermitsbyLeoTolstoy			Module IV 1)TheNightTrainatDeolibyRuskinBond 2)ThreeHermitsbyLeoTolstoy
46	Introduction to English Language and Literature –II (Minor English	MIN01ENG21	2023-24	Module V Phonologyand Morphology Module VI PracticalEnglish	ModuleVIII-TheBear'byAntonChekov	ModuleVIII-TheBear'byAntonChekov			ModuleVIII-TheBear'byAntonChekov
47	Anchoring and Announcing -I	VSEC01ENG11	2023-24	Module I Basics about Anchoring and Announcing Module II Essential Non-Verbal Aspects and Listening					
48	Anchoring Announcing-II	VSEC01ENG21	2023-24	Module III-Anchoring a social or cultural event Module IV-Ethics of Public Speaking					

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49	Skill Enhancement Course –(SEC) Essential English Skills for Competitive Examination	SEC01ENG 11	2023-24	Module I - Grammar Module II- Reading Comprehensio n					
50	Skill Enhancement Course –(SEC) IELTS Course	SEC01ENG 21	2023-24	Module I –A) Listening B) Reading Module II- A)Writing B) Speaking					
51	Introduction to Rasa Theory (IKS)	IKS01ENG 11	2023-24						Module I – A)Introduction to Indian Aesthetics B)Introduction to Natyashastra C) Bharata's Rasa theory
52	Educational Outreach Programme Community School	CEP01ENG 21	2023-24	A) Teachin g Plan					Community service

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53	AEC- I English for Business Communication (B.Com I)	AEC02ENG 11	2023-24	Module I- A)Description Module II- A) Narration		Module I – Money Madness		Module II- Why a start-up Needs to find its Customers first by Pranav Jain	
54	AEC –I Business Communication (B.C.S.I)		2023-24	Module I - Introduction to communication Module II- Writing Memos ,Circulars and Notices					
55	AEC-II Business Communication (B.C.S I)		2023-24	Module I – Communication Network Module II- Writing Business Letter					
56	AEC- II English for Business Communication (B.Com I)	AEC02ENG 21	2023-24	Module III- Writing Official Letters Module IV- Interdepartmental Communication		Module IV- Leisure by D.H.Lawrence .		Module III- Commerce Education – Key to Prosperity and security by Manjushree Deshpande	

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57	AEC- I English for Communication (B.Sc- I)	AEC03ENG 11	2023-24	Module I- A) Description		Module I A) Parachute by Lenrie Peters			Module I A) Parachute by Lenrie Peters B) Module II My Silent Keeper by Kevin Harter
58	AEC- II English For Communication (B.Sc- I)	AEC03ENG 12	2023-24	Module III Information Transfer and Interpretation Module IV- English for General Purposes		Module III- The Blind Boy Module IV – Good Manners by J.C. Hill			Module III- The Blind Boy Module IV Good Manners by J.C. Hill
59	AEC – I Business Communication (B.B.A-I)	AEC05ENG 11	2023-24	Module I- Introduction to communication Module II- Employment Communication Office Drafting					
60	AEC – II Business Communication (B.B.A-I)	AEC05ENG 12	2023-24	Module III- Seminar and Conference Group Discussion Module IV- Business					

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				Letters and Report Writing					
61	AEC- I Business Communication (B.C.A-I	AEC04ENG 11	2023-24	Module I- Introduction to communication Module II- Writing Memos ,Circulars					
62	AEC- II Business Communication (B.C.A-I)	AEC04ENG 21	2023-24	Module II- Communication Network Module III- Writing Business Letter .					
63	AEC-I English for Communication (B.Sc .I Biotech Entire	AEC-07ENG11	2023-24	Module I- Description		Module I Parachute by Lenrie Peters			Module IV- My Silent Keeper by Kevin Harter
64	AEC-II English for Communication (B.Sc .I Biotech Entire)	AEC06ENG21	2023-24	Module I- Information Transfer and Interpretation Data		Module III- The Blind Boy –Colley Gibber			Module IV- Good Manners by J.C .Hill

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Head
DEPARTMENT OF ENGLISH
VIVEKANAND COLLEGE
KOLHAPUR (EMPOWERED AUTONOMOUS)

20	Indian society structure and change	DSC:1021C1	2022			Religious, Linguistic, Socio – Cultural - Unity			Segments of Indian society
21	Social problems in India	DSC :1021C2	2022					Remedies to eradicate poverty	
22	Indian society structure and change	DSC:1021D1	2022					New Economic Policy	ancient Balutedari system
23	Social problems in India	DSC :1021D2	2022		Remedies to decrease Female Feticide				
24	Western Sociological thinkers	DSC :1021E1	2023			Thoughts of western sociological thinkers			
25	Methods of social research	DSC :1021E2	2023						Development of research techniques

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26	Rural sociology	DSC :1021E3	2023			Rural culture		Community development program	Community development program
27	Urban sociology	DSC :1021E4	2023			Urban culture	Remedies to eradicate pollution		
28	Political sociology	DSC :1021E5	2023			Liberty, Democracy			Liberty
29	Research Techniques	SEC : AE	2023						Development of research techniques
30	Indian Sociological thinkers	DSC :1021F1	2023			Hindu Culture, National Unity			Thoughts of Indian thinkers
31	Methods of social research II	DSC :1021F2	2023						Create awareness to promote scientific research
32	Indian rural society	DSC :1021F3	2023					Indian rural economy	

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33	Industrial sociology	DSC :1021F4	2023			Thoughts of Max Weber about Bureaucracy			The importance of resent trends in industrial sector
34	Social Anthropology	DSC :1021F5	2023			Socio – cultural , economic, religious Traditions			
(B.A. 1 Sociology introduced under NEP 2020 From the year 2023 – 24)									
35	Principles of Sociology – I	DSC01SOC1 1	2023	Social control, Social change		Social norms, socialization			
36	Principles of Sociology – I	MIN01SOC1 1	2023			Cultural values, Social norms			
37	Research Skills - I	VSC01SOC1 1	2023						Development of research techniques

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38	Gender Sensitization	SEC01SOC11	2023		Gender justice and gender equality, government scheme for achieving gender equality				
39	Indian Society	IKS01SOC11	2023						Study of social conditions of India in different periods

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HEAD
DEPARTMENT OF SOCIOLOGY
VIVEKANAND COLLEGE, KOLHAPUR
(AUTONOMOUS)

16	Bhasha Vidyan	DSC 1016 F5	2020-21			Bhasha			Basha aur Lipi

Content with Cross-cutting Issues
(2021-22 to 2023-24)

Sr. no.	Name of the Course	Course Code	Year of Introduction	Professional Ethics	Gender	Human Values	Environment & Sustainability	Sustainable Development Goals	NEP-2020 (truth (satya), righteous conduct (dharma), peace (shanti), love (prem), nonviolenc e (ahimsa), scientific temper, citizenship values, lifeskills; ·lessons in seva/ servic eand participatio nin community service education)
1	Kathetar Gadya Sahitya Aur Rachnatmk Lekhan	DSC 1016 A	2021-22		Jel Me Vivah	Nakhun Kyon Badhate Hai	1. Nishad Bansuri 2. Dhele Par Himalay 3. Chodon Par Chandani	Mahatma Gandhi	1. Mahatma Gandhi 2. Premchand Ke Phate jute

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2	Adhunik Kavita Aur Rachnatmk Lekhan	DSC 1016 B	2021-22		1. Striyan 2. Maa 3. Adivasi ladaki	1. Thakur ka Kunwa 2. Gulami	Bandhon Na Nav Is Thanv Bandhu	Mitti Ka Bhar	1. Roti aur sansad 2. Mitti Ka Bhar
3	Hindi Kahani Aur Pathkatha Lekhan	DSC 1016 C1	2022-23		Sagar Simant	Badhuwa Haliddar	Sagar Simant	Sadgati	Hatyara
4	Madhykalin Kavita Aur Sangeet	DSC 101 C2	2022-23		Bhramargeet Ke Pad- Surdas	Kabeer Ka sahitya	Kavi Ghagh	Madhyakalin Kavita	Madhyakalin Kavita
5	Natak Aur Rangmanchiyata	DSC 1016 D1	2022-23		Abhanggath-Natak	Abhanggath-Natak		Abhanggath-Natak	
6	Adhunik Kavita: Geet Aur Gajal	DSC 1016 D2	2022-23		Jinhe Naj Hai Hind Par Wo Kahan Hai	Log Tut Jate Hai	Mera Kuch Saman	Ab To Majhab Aisa Chalaya Jaye	Sabse Khatrnak Hota Hai Apne sapnon ka Mar Jana
7	Vidha Vishesh Ka Adhyyan	DSC 1016 E1	2023-24			Mohandas-Kahani		Mohandas-Kahani	Mohandas-Kahani
8	Sahityashastra	DSC 1016 E2	2023-24			Rasasutra			Natyashashtra
9	Hindi Sahitya Ka Itihas	DSC 1016 E3	2023-24		Sant Meerabai	Santa Kaya	Jayasi Ke Sahitya Me	Aadikal sahitya	Madhyakal sahitya
10	Prayojanmulak Hindi	DSC 1016 E4	2023-24			Patrkarita			Print & Redio Media
11	Bhasha Vidyan	DSC 1016 E5	2023-24			Bhasha Vigyan			Bhasha Vigyan

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12	Vidha Vishesh Ka Adhyyan	DSC 1016 F1	2023-24		Shakuntiak-Upnyas	Shakuntiak-Upnyas		Shakuntiak-Upnyas	Shakuntiak-Upnyas
13	Sahityashastra Aur Samalochna	DSC 1016 F2	2023-24			Samalochana			Samalochana
14	Hindi Sahitya Ka Itihas	DSC 1016 F3	2023-24		Stree Vimarsh	Dalit & Adivasi Vimarsh	Paryavarn Vimarsh	Adhunik kavya	Adhunik Sahitya
15	Prayojanmulak Hindi	DSC 1016 F4	2023-24			Social Media		Electronik Media	Electronik Media
16	Bhasha Vidyan	DSC 1016 F5	2023-24			Bhasha			Basha aur Lipi

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Dr. Arif Shoukat Mahat
HEAD
DEPARTMENT OF HINDI
VIVEKANAND COLLEGE, KOLHAPUR
(AUTONOMOUS)

7	History of Economic Thoughts	DSE – 1018 E 3	2020-21			wage policies,		Marginalism	Socialistic pattern
8	Economics of Development	DSE – 1018 E 4	2020-21			Human Capital	Biodiversity, Greenhouse gases,		
9	Consumer Rights and Protection	SEC	2020-21	Consumer Rights		Consumer Protection			
10	Market and Pricing	DSE – 1018 F 1	2020-21				Consumers surplus		
11	Economic Thoughts of Chh. Shahu Maharaj	DSE – 1018 F 3	2020-21		Education				Education, Reservation, Cooperation,
12	Economics of Planning	DSE – 1018 F 4	2020-21					Optimum use of National resources	
13	GST in India	DSE – 1018 F 5	2020-21	Optimum taxation					
BA Economics(Revised between 2021-22 and 2023-24)									
14	Indian Economy-I	DSC-1018A	2021-22		Inclusive Growth	Inclusive Growth			
15	Indian Economy-II	DSC-1018B	2021-22					Sustainable Development	
16	Macro Economics - I	DSC-1018C1	2022-23					Green GDP	
17	Banks and FI- I	DSC-1018D1	2022-23					Financial Inclusion	Financial literacy
18	Macro Economics - II	DSC-1018D2	2022-23						
19	Micro Economics	DSE – 1018 E 1	2023-24			Consumer welfare			
20	History of Economic	DSE – 1018 E 3	2023-24			wage policies,		Marginalism	Socialistic pattern

	Thoughts								
21	Economics of Development	DSE – 1018 E 4	2023-24			Human Capital	Biodiversity, Greenhouse gases,		
22	Consumer Rights and Protection	SEC	2023-24	Consumer Rights		Consumer Protection			
23	Market and Pricing	DSE – 1018 F 1	2023-24				Consumers surplus		
24	Economic Thoughts of Chh. Shahu Maharaj	DSE – 1018 F 3	2023-24		Education				Education, Reservation, Cooperation,
25	Economics of Planning	DSE – 1018 F 4	2023-24					Optimum use of National resources	
26	GST in India	DSE – 1018 F 5	2023-24	Optimum taxation					
B.A. Economics NEP (2023-24)									
27	Micro Economy	DSC01ECO11	2023-24				Consumers surplus		
28	Introductory Micro Economics	MIN01ECO11	2023-24				Consumers surplus		
29	e-Banking	VSC01ECO11	2023-24					Financial Inclusion	
30	Kautilya's Economics	IKS01ECO11	2023-24	Strategic Plans					welfare

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Dr. Kailas Patil
HEAD
DEPARTMENT OF ECONOMICS
VIVEKANAND COLLEGE, KOLHAPUR
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21	Fundamentals of Interior Design	DSC-1019C1	2022-23	Fundamentals of Design, Furniture Arrangement, Flower Arrangement and Flower Decoration			Fundamentals of Design, Selection of Furniture		
22	Introduction to Food Preservation and Food Safety	DSC-1023C2	2022-23	Food Preservation, Principles of Food Preservation, Methods of Food Preservation, Food Safety		Precaution to be taken for preservation Do's & Don'ts of food preservation	Principles OF Food Preservation	Zero Hunger - Methods of Food Preservation	
23	Fundamentals of Textile Science and Apparel Construction	DSC-1023D1	2022-23	Textile Fibres and Yarns, Fabric Construction , Apparel Construction, Pattern Drafting and Elements of apparel Construction					
24	Development in Prenatal Period to Early Childhood	DSC-1023D2	2022-23		Prenatal Development, Neonate	Introduction to Human Development		Quality Education- Prenatal Developmen	

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					and Infant Development, Early Childhood Development			t, Neonate and Infant Development, Early Childhood Development	
25	Meal Management	DSE – 1023E 1	2023-24	Principles of Meal Planning	Nutrition during pregnancy and lactation,	Nutrition during Infancy to Adolescent, Adulthood		Zero Hunger- Dietary Guidelines for Indians and Food Pyramid	
26	Fundamentals of Textile Science Apparel Construction-II	DSE – 1023E 2	2023-24	Textile printing and painting and Preparation of samples Construction of apparels using elements of Apparel Construction					
27	Human Development (Late Childhood and Adolescence)	DSE – 1023 E 3	2023-24		Gender equality	Cognitive development, Social and Moral development		Gender equality	

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28	Space Planning and Design	DSE – 1023 E 4	2023-24				Plumbin, Drainage facility. Kitchen Gardening professional ethics- Landscaping		
29	Research Methodology in Home Science	DSE – 1019 E 5	2023-24	Research Methodology		Communication and Extension			
30	Home Based Catering -I	SEC-AE	2023-24			Importance of hygiene and sanitization	Importance of hygiene and sanitization		
31	Dietetics	DSE – 1019 F 1	2023-24	Aware of diet and nutrition		Aware of diet and nutrition		Good Health and wellbeing - Modification of diet according to nutrient requirement	

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32	Traditional Indian Textiles and Embroidery	DSE – 1023 F 2	2023-24	Traditional Indian Embroideries					
33	Introduction to Guidance and Counselling	DSE – 1023 F 3	2023-24	Educational Counselling ,Counselling Application		Counsellin g Applicatio n			
34	Entrepreneurshi p Development	DSE – 1023 F 4	2023-24	Entrepreneurshi p Through Home Science Education		Qualities of Successful Entreprene ur			
35	Home Science Extension Education	DSE – 1023 F 5	2023-24			Means of Communicat ion			
36	Home Based Catering -II	SEC-AE	2023-24	Planning of A Food Service		Marketing & Selling strategies			
BA I Home Science introduced under NEP 2020 from the year 2023-24									
37	Fundamentals of Food Science and Nutrition	DSC01HO M11	2023-24	Understand the principles involved in food preparation					
38	Introduction to Food Science and Nutrition-I	MIN01HO M11	2023-24	Understand the principles involved in food preparation					
39	Bakery Science	VSC01HO M11	2023-24	start their own start up in bakery industry.					

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40	Nutrition for Health	SEC01HOM11	2023-24			food Pyramid for good health, Dimension of health			
41	Indian Traditional Cuisine	IKS01HOM1	2023-24	Use of food cuisine and cooking style of various states of India		understand Food cuisine and cooking style of various states of India			

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U. S. Khot
Head of the
Department of Home Science
Vivekanand College, Kolhapur

Vivekanand College Kolhapur (Autonomous)

Department of Commerce

Curricular Relevance

M.Com- II

Sr. No	Course Code	Title of the Course	Year of Introduction	Professional Ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development Goals
1.	CP-1217C	Business Finance-I	2021-22	Finance function and general principles of business finance. Working Capital Management	-	Able to decide capital structure.	-	Sources of Finance Venture Capital Lease Finance Project Finance
2.	CP-1225D	Business Finance-II	2021-22	Corporate Failure and Restructuring Mutual Funds, Portfolio Management and Micro Finance	-	-	-	Capital markets Portfolio Management. International Finance
3.	CP-1218C	Management Accounting Paper - I	2021-22	Estimation of working capital Responsibility Accounting	-	-	-	Financial Statement Analysis Funds Flow Statement Cash Flow Statement
4.	CP-1226D	Management Accounting Paper - II	2021-22	Management control system Management Information System Reporting to Management	-	-	-	Budget and Budgetary Control Standard Costing Cost Control and Cost Reduction

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5.	CBP-1219C	Advanced Accountancy-V (Cost Accounting)	2021-22	Elements of cost and methods of costing. Reconciliation of Cost and Financial Accounts	-	-	-	Cost Accounting of Material, Labour and Overheads Methods of Costing
6.	CBP-1222C	Advanced Accountancy Paper- VI (Research Project)	2021-22	Prepare Project report by using primary and secondary data.	-	-	-	Prepare the project report based on the field work to solve the organisational problems.
7.	CBP-1227D	Advanced Accountancy-VII (Financial Management)	2021-22	Role of Finance Manager. Capital Structure Decisions Cost of Capital	-	Role of Finance Manager	-	Corporate Restructuring
8.	CBP-1230D	Advanced Accountancy Paper- VIII (Taxation)	2021-22	Exemptions & Deductions Computation of Taxable Income and Tax Liability of Individual	-	E-filing of returns, online payment of tax	-	Goods and Service Tax
9.	CBP-1219C	Advanced Costing-V (Cost Accounting Record and Cost Audit)	2021-22	Cost Accounting Standards. Cost ledgers and statements. Integrated and non-integrated accounts.	-	-	-	understand the reporting requirements under Cost Audit

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10.	CBP-1223C	Advanced Costing-VI (Research Project)	2021-22	Prepare Project report by using primary and secondary data.	-	-	-	Prepare the project report based on the field work to solve the organisational problems.
11.	CBP-1228D	Advanced Costing-VII (Cost Analysis and Decision Making)	2021-22	Use of cost in different areas of decision making. transfer pricing and its applications.	-	-	-	Demonstrate the application of relevant information in decision making.
12.	CBP-1231D	Advanced Costing-VIII (Contemporary Issues in Cost Accounting)	2021-22	Strategic Cost Management JIT, MRP, ERP and Value Chain Analysis:	-	-	-	Responsibility Accounting, Performance Evaluation Balanced Scorecard
13.	CBP-1221C	Business Administration- V (Corporate Governance and Business Ethics)	2021-22	Nature of unethical behaviour in corporate. Business Ethics In International Business	-	-	-	Directors and Corporate Governance Shareholders, Auditors &Corporate Governance
14.	CBP-1224C	Business Administration- VI (Research Project)	2021-22	Prepare Project report by using primary and secondary data.	-	-	-	Prepare the project report based on the field work to solve the organisational problems.

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15.	CBP-1229D	Business Administration-VII (Functional Areas of Management : Recent Trends)	2021-22	Recent trends in HR, Recent trends in marketing, Recent trends in finance, Recent trends in operations and quality management	-	-	-	Recent trends in HR, Recent trends in marketing, Recent trends in finance, Recent trends in operations and quality management
16.	CBP-1232D	Business Administration-VIII (Strategic Management)	2021-22	Strategy Formulation, Strategic Choice, Strategy Implementation Strategy Evaluation and Control	-	-	-	Strategy Formulation, Strategic Choice, Strategy Implementation Strategy Evaluation and Control

Vivekanand College Kolhapur (Autonomous)
Department of Commerce
Curricular Relevance
M.Com- I

Sr. No	Course Code	Title of the Course	Year of Introduction	Professional Ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development Goals
1.	CP-1201A	Business Management	2022-23	Managerial skills, role of manager.	-	-	-	Strategic Management. Contemporary Issues in Management
2.	CP-1209B	Organization Behavior	2022-23	Individual and Group Behavior	-	Models of OB. Ethical issues in OB, Organizational Culture and Quality of Work life	-	Organizational Conflict and Stress Management
3.	CBP-1203A	Advanced Accountancy Paper- I	2022-23	Accounts of hotels and hospitals and insurance companies. Accounting standards, IFRS and GAAP.	-	-	-	Accounts of Holding Company.
4.	CBP-1206A	Advanced Accountancy Paper- II (Auditing)	2022-23	Accounts of cooperative society. Social Responsibility Accounting, Human Resource Accounting	Understand the Accounting for lease	Social Responsibility Accounting	Environment Accounting	Accounting for Amalgamation, Absorption and Reconstruction of companies. Accounting for Lease
5.	CBP-1211B	Advanced Accountancy Paper- III	2022-23	Basic principles governing an Audit, Independence of Auditor, Dividend and Divisible Profit, Types of Audit and audit of various entities	-	-	-	Types of Audit and audit of various entities Auditing and Assurance Standards.

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				Auditing and Assurance Standards.				
6.	CBP-1214B	Advanced Accountancy Paper- IV (Research Methodology)	2022-23	Types of research, research process, methods of research components of research design	-	Research Ethics	-	Data collection methods and analysis and interpretation of data
7.	CBP-1204A	Advanced Costing- I	2022-23	Cost Classification and Preparation of Cost Sheet	-	-	-	Cost Accounting of Material, Cost Accounting of Labour and Overheads
8.	CBP-1207A	Advanced Costing- II	2022-23	Job and Batch Costing Contract Costing Process Costing Operating Costing	-	-		Job and Batch Costing Contract Costing Process Costing Operating Costing
9.	CBP-1212B	Advanced Costing- III	2022-23	Marginal Costing and CVP Analysis Activity Based Costing Uniform Costing	-	-	-	Standard Costing and Variance Analysis:
10.	CBP-1215B	Advanced Costing- IV (Research Methodology)	2022-23	Types of research, research process, methods of research components of research design	-	Research Ethics	-	Data collection methods and analysis and interpretation of data.
11.	CBP-1205A	Business Administration-I	2022-23	Business Environment. Business Ethics	-	-	-	Government And Business

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12.	CBP-1208A	Business Administration-II	2022-23	Marketing Management Issues And Development In Marketing Financial management:	-	-	-	Issues And Development In Financial Management:
13.	CBP-1213B	Business Administration-III	2022-23	Operations Management Recent Trends In Operations Management	-	-	-	Recent Trends In Human Resource Management:
14.	CBP-1216B	Business Administration-IV IV (Research Methodology)	2022-23	Types of research, research process, methods of research components of research design	-	Research Ethics	-	Data collection methods and analysis and interpretation of data.

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Vivekanand College Kolhapur (Autonomous)
Department of Commerce
Curricular Relevance
M.Com- II

Sr. No	Course Code	Title of the Course	Year of Introduction	Professional Ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development Goals
1.	CP-1217C	Business Finance- I	2023-24	Finance function and general principles of business finance. Working Capital Management	-	Able to decide capital structure.	-	Sources of Finance Venture Capital Lease Finance Project Finance
2.	CP-1225D	Business Finance- II	2023-24	Corporate Failure and Restructuring Mutual Funds, Portfolio Management and Micro Finance	-	-	-	Capital markets Portfolio Management. International Finance
3.	CP-1218C	Management Accounting Paper - I	2023-24	Estimation of working capital Responsibility Accounting	-	-	-	Financial Statement Analysis Funds Flow Statement Cash Flow Statement
4.	CP-1226D	Management Accounting Paper - II	2023-24	Management control system Management Information System Reporting to Management	-	-	-	Budget and Budgetary Control Standard Costing Cost Control and Cost Reduction
5.	CBP-1219C	Advanced Accountancy-V (Cost Accounting)	2023-24	Elements of cost and methods of costing. Reconciliation of Cost and Financial Accounts	-	-	-	Cost Accounting of Material, Labour and Overheads Methods of Costing
6.	CBP-1222C	Advanced Accountancy Paper-	2023-24	Prepare Project report by using primary and	-	-	-	Prepare the project report based on the

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		VI (Research Project)		secondary data.				field work to solve the organisational problems.
7.	CBP-1227D	Advanced Accountancy-VII (Financial Management)	2023-24	Role of Finance Manager. Capital Structure Decisions Cost of Capital	-	Role of Finance Manager	-	Corporate Restructuring
8.	CBP-1230D	Advanced Accountancy Paper-VIII (Taxation)	2023-24	Exemptions & Deductions Computation of Taxable Income and Tax Liability of Individual	-	E-filing of returns, online payment of tax	-	Goods and Service Tax
9.	CBP-1219C	Advanced Costing-V (Cost Accounting Record and Cost Audit)	2023-24	Cost Accounting Standards. Cost ledgers and statements. Integrated and non-integrated accounts.	-	-	-	understand the reporting requirements under Cost Audit
10.	CBP-1223C	Advanced Costing-VI (Research Project)	2023-24	Prepare Project report by using primary and secondary data.	-	-	-	Prepare the project report based on the field work to solve the organisational problems.
11.	CBP-1228D	Advanced Costing-VII (Cost Analysis and Decision Making)	2023-24	Use of cost in different areas of decision making. transfer pricing and its applications.	-	-	-	Demonstrate the application of relevant information in decision making.
12.	CBP-1231D	Advanced Costing-VIII (Contemporary	2023-24	Strategic Cost Management JIT, MRP, ERP and	-	-	-	Responsibility Accounting, Performance

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		Issues in Cost Accounting)		Value Chain Analysis:				Evaluation Balanced Scorecard
13.	CBP-1221C	Business Administration- V (Corporate Governance and Business Ethics)	2023-24	Nature of unethical behaviour in corporate. Business Ethics In International Business	-	-	-	Directors and Corporate Governance Shareholders, Auditors &Corporate Governance
14.	CBP-1224C	Business Administration- VI	2023-24	Prepare Project report by using primary and secondary data.	-	-	-	Prepare the project report based on the field work to solve the organisational problems.
15.	CBP-1229D	Business Administration-VII (Functional Areas of Management : Recent Trends)	2023-24	Recent trends in HR, Recent trends in marketing, Recent trends in finance, Recent trends in operations and quality management	-	-	-	Recent trends in HR, Recent trends in marketing, Recent trends in finance, Recent trends in operations and quality management
16.	CBP-1232D	Business Administration-VIII (Strategic Management)	2023-24	Strategy Formulation, Strategic Choice, Strategy Implementation Strategy Evaluation and Control	-	-	-	Strategy Formulation, Strategic Choice, Strategy Implementation Strategy Evaluation and Control

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Curricular Relevance

B.Com- I

Sr. No	Course Code	Title of the Course	Year of Introduction	Professional Ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development Goals
1.	CC-1043A	Financial Accounting- I	2021-22	Accounting of Professionals.	-	-	-	Amalgamation of Partnership Firm. Conversion of Partnership Firm in to Limited Company
2.	CC-1043B	Financial Accounting- II	2021-22	Financial Accounting Standard	-	-	-	Consignment Account and Branch Accounting.
3.	CC-1041A	Principles of Business Management- I	2021-22	Role of Manager Management Skills	-	Role of Manager	-	Planning& Decision Making Organizing
4.	CC-1041B	Principles of Business Management- II	2021-22	Functions of a leader, Leadership styles, corporate social responsibility.	-	Directing Management of change Communication.	-	Staffing Controlling.
5.	CC-1042A	Principles of Marketing- I	2021-22	Relationship Marketing	Consumer Behaviour	Factors affecting Consumer Behaviour. Relationship Marketing.	-	Segmentation, Targeting & Positioning

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6.	CC-1042B	Principles of Marketing- II	2021-22	Rural Marketing after sales service	-	Brand name and Trade Mark	-	Retailing Marketing Mix 7 Ps of marketing mix
7.	GEC-1046A	Insurance- I	2021-22	Insurance Agent: Qualification, functions, remuneration, ethical code of conduct.	-	Insurance Contract and Principles of Insurance	-	Privatization of Insurance Business and IRDA Act
8.	GEC-1046B	Insurance- II	2021-22	Procedure of taking life, Fire and Marine insurance policy.	Pradhan Mantra Jeevan Jyoti Bima Yojana	Liability Insurance	-	Life Insurance Marine Insurance Fire Insurance General Insurance (Accident)

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Curricular Relevance

B.Com- II

Sr. No	Course Code	Title of the Course	Year of the Introduction	Professional Ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development Goals
1.	CC1048 C	Corporate Accounting-I	2022-23	Company Final Account As per Schedule III to the Indian Companies Act 2013.	Human Resource Accounting	Social Responsibility Accounting Forensic Accounting	Environmental Accounting	Issue and forfeiture of shares, Re-issue of forfeited shares. Issue and Redemption of Debentures.
2.	CC1048 D	Corporate Accounting-II	2022-23	Valuation of Shares Computerised Accounting.	-	Liquidation procedure of company.	-	Amalgamation and Absorption of Companies.
3.	CC-1047C	Fundamentals of Entrepreneurship-I	2022-23	Entrepreneur & Entrepreneurship &Theories of Entrepreneurship.	Stories of successful Entrepreneurs.	Functions, Qualities of Successful Entrepreneur Obstacles to become an entrepreneur-Challenges before entrepreneurs in modern Era.	-	Institutional support for Entrepreneurship development - EDI, NIESBUD, MCED,DIC Start up, Stand up, Skill India, Make in India Incubation Centre.
4.	CC-1047D	Fundamentals of Entrepreneurship-II	2022-23	Rural & Agro Entrepreneurship	Women Entrepreneurship	Problems & remedies of MSME e-commerce, Franchising steps involved in the formation of small enterprises.	Rural & Agro Entrepreneurship.	Project Management. Micro, Small and medium Enterprises (MSME)

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Curricular Relevance
B.Com- III

Sr. No	Course Code	Title of the Course	Year of the Introduction	Professional Ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development Goals
1.	CC-1053E	Business Regulatory Framework - I	2023-24	Law of Contract Remedies for breach of contract Consumer Protection Act.	Understand Law of Contract, Contract of Bailment and Pledge, Contract of Agency, Sale of Goods Act and Consumer Protection Act.	Duties and Rights of Bailor and Bailee Rights and Duties of Agent and Principal Consumer Protection Act	-	Sale of Goods Act Contract of Bailment and Pledge Contract of Agency
2.	CC-1053F	Business Regulatory Framework - II	2023-24	The Companies Act, 1956 The Securities And Exchange Board of India Act, 1992	Understand the Companies Act, The Securities and Exchange Board of India Act, Information Technology Act and Right To Information Act.	Information Technology Act, 2000 Intellectual Property Rights.	-	Role of Stock Exchanges Listing of Securities Trading of Securities.
3.	CC-1052E	Modern Management Practices -I	2023-24	Corporate Governance Corporate social responsibility	-	Stakeholder's role in corporate governance.	-	Strategic Management Knowledge Management Outsourcing
4.	CC-1052F	Modern Management Practices -II	2023-24	Total Quality Management	Explain Types of Events Management.	Event Management International Management	-	Emergency Management and Change Management
5.	DSC-1056E	Advanced Accountancy Paper - I	2023-24	Bank Final Accounts	and Farm Accounting	Accounting procedure for Hire purchase system, Insurance Claim.	Farm Accounting	Hire purchase system Insurance Claim
6.	DSC-1057E	Advanced Accountancy (Auditing) Paper-II	2023-24	Preparation of Cost Sheet & Quotation	-	Use marginal costing technique in decision making	-	Working Capital Ratio Analysis

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13	Strategic Management	BCA 1426F	2020-2021	Concept of Mission, Vision, Objectives, Concept of Strategy	Nil.	Nil	Nil	SWOC analysis.
14	E1-2. Management Information System	CC-GE BCA 1423E	2023-24	Decision Making Concepts, and Process.	Nil	Human Resource Information System.	Nil	Nil
15	E2-1. M – Commerce	CC-GE BCA-1429F	2023-24	scope of mobile—commerce.	Nil	Security threats in M-commerce, Control measures in mobile commerce.	Nil	Security Challenges in M –Commerce.

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	tools and technology in business	B		Technology					Technices
25	Recent trend in Marketing	GEC-1376E	2021-22	Marketing Communication		Rural marketing	Agro marketing	Future medium of communication	Customer disaisfaction and delight
26	Foundation of Human Skills	GEC 1379E	2021-22	Emotional quotients		Different Human Skills	Quality behavior	Communication Skills	
27	Fundamentals of Entrepreneurship	CC-1372C	2021-22	Entrepreneurship	Feminusm	Women and Social Entrepreneurship		EDP	
28	Service Marketing	CC1374C	2021-22	Service Marketing		Challenges of Services marketing	Process of service Marketing		
29	Strategic management	CC1375C	2021-22	Organization vision and mission			Corporate governance	Environmental analysis	
30	Entrepreneurship and project management	CC137AT	2021-22	Economic Development			Economic Development		
31	Production and Operation Management	CC1380D	2021-22	Production Management				Quality management	
32	Reseach	CC138	2021-22	Data anylis				Research	Sample

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	Methodology	D						paper and Report	Design
33	Practices in modern Management	CC-1375E	2022-23	Modern Management		Social responsibilities	Business ethics	Orgnaization enviornment	Time and Event Management
34	Recent trends in marketing	GEC-1376E	2022-23	Marketing Communication		Rural marketing	Agro marketing	Future medium of communication	Customer dissatisfaction and delight
35	Fundamentals of Business law	GEC 1378E	2022-23	Buiness law		Contract act	Sales of good act	Breach of contract	Tax law with classification
36	Fundamentals of business and tax law	GEC1378F	2022-23	Indian company act 2013		Consumer protection act	Negotiable instrument act	Inter lecture property rights	

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	Improvement						traditional knowledge and protection of plant varieties help in maintaining biodiversity and sustainability.		
B.Sc. Botany (Revised between 2021-22 and 2023-24)									
15	Biodiversity in Microbes, Algae and Fungi	DSC-1007 –A- 1	2021-22			Course provides insights about protection of intellectua l property rights.	The course describe the importance of cryptogams and gymnosperms in environment.		
16	Plant Ecology	DSC-1007 B-1	2022-23				The course discusses importance of ecology, its benefits.		
17	Angiosperms Taxonomy	DSC-1007 B-2	2022-23				The course describes the importance of angiosperms taxonomy in environment and biodiversity conservation.		
18	Cytology and Research	DSE – 1007 E 1	2023-24			Course provides	Techniques applicable in		

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	Technique in Life Sciences	Sec – I				experienti ally learning in ethical practices involved in scientific research.	the field of botany, agriculture, microbiology and biotechnology.		
19	Microbiology, Plant Pathology and Biofertilizers	DSE – 1007 E 1 Sec - II	2023-24	Scientific Management			The course helps the students understand and assess the use of biofertilizers in sustainable agriculture.		
20	Plant Systematics and Paleobotany	DSE – 1007 E 2 Sec – II	2023-24				The course helps the student's use of in-situ and ex-situ methods in biodiversity conservation.		
21	Technique of Life Science	SEC- E	2023-24	Scientific Management		Course provides experienti ally learning in ethical practices involved	Techniques applicable in the field of botany, agriculture, microbiology and biotechnology		

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						in scientific research.			
22	Genetics and Plant Breeding	DSE – 1007 F 1 Sec – I	2023-24				Students should be aware of traditional knowledge and protection of plant varieties helps in maintaining biodiversity and sustainability.		
23	Biostatistics , Economic Botany and Ethnobotany	DSE – 1007 F 1 Sec – II	2023-24				Basic understanding of ethnobotany helps in maintaining environmental sustainability.		
24	Molecular Biology and Biotechnology	DSE – 1007 F 2 Sec – I	2023-24			Course provides insights into the ethical practices to be followed during scientific research.	Plant biotechnology is relevant for its applications towards a sustainable environment.		
25	Horticulture, Forestery and	DSE – 1007 F 2	2023-24			Course provides	Herbal technology is		

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	Herbal Technology	Sec - II				experientially learning in ethical practices involved in scientific research.	the eco-friendly technology and helps to conserve environment sustainability.		
26	Technique in Plant Diversity and Crop Improvement	SEC- F	2023-24	Scientific Management			Students should be aware of traditional knowledge and protection of plant varieties help in maintaining biodiversity and sustainability.		
B.Sc. I Botany introduced under NEP 2020 from the year 2023-24									
27	Basics in Botany	DSC03BOT11	2023-24						
28	Plant Morphology	DSC03BOT12	2023-24						
29	Basics in Botany	MIN03BOT11	2023-24						
30	Plant Morphology	MIN03BOT11	2023-24						
31	Agri Based Microenterprises - I	OEC03BOT11	2023-24				Students should be aware of traditional		

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							knowledge and helps in maintaining sustainability.		
32	Agri Based Microenterprises - II	OEC03BOT12	2023-24						
33	Introduction to Ayurveda	IKS03BOT11	2023-24					Basic understanding of Ayurveda helps in maintaining community health and mental health	
34	Reproductive Botany	DSC03BOT21	2023-24						
35	Diversity and Conservation of Plants	DSC03BOT22	2023-24				Students should be comparing in –situ and ex-situ conservation of biodiversity.		
36	Reproductive Botany	MIN03BOT21	2023-24						
37	Diversity and Conservation of Plants	MIN03BOT22	2023-24				Students should be comparing in –situ and ex-situ conservation of biodiversity.		
38	Herbal	OEL03BOT21	2023-24			Course	Herbal drug		

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	Technology - I					provides insights about protection of intellectual property rigts.	production is the eco-friendly technology and helps to conserve environmental sustainability.		
39	Herbal Technology - II	OEL03BOT22	2023-24						
40	Basic Tools of Life Sciences	SEC03BOT29	2023-24			Course provides experientially learning in ethical practices involved in scientific research.	Techniques applicable in the field of botany, agriculture, microbiology and biotechnology		

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19.	**DSC-1006E1**	Computer Network	**2023-24**	Emphasizing the importance of professional ethics in computer networking, including issues related to cybersecurity, data privacy, and responsible network management practices.			The environmental impact of computer networks, including considerations for energy-efficient network infrastructure and promoting sustainable networking practices.		Implementing NEP will provide a multidisciplinary and holistic education that fosters critical thinking and innovation in the field of Computer Network.
20.	**DSC-1006E2**	Software Engineering	**2023-24**	Emphasizing the importance of professional ethics in software engineering	Promoting gender diversity in software Development and Design		The environmental impact of software engineering practices, including considerations for sustainable coding practices, energy-efficient algorithms, and eco-friendly software development.	Explore how software development can contribute to goals such as good health, quality education, and reduced inequalities through the creation of impactful software solutions.	Implementing NEP will provide a multidisciplinary and holistic education that fosters critical thinking and innovation in the field of Software Engineering.
21.	**DSC-1006E3**	Internet Technologies-I	**2023-24**	Ethical considerations in data science using Python and Flask		Fairness into the curriculum to ensure that data science projects are approached with consideration for the well-being and values of individuals and society.			Implementing NEP will provide a multidisciplinary and holistic education that fosters critical thinking and innovation in the field of Web Development using Flask.

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22.	**DSC-1006E4**	Introduction to Java	**2023-24**	Emphasizing the importance of professional ethics in Java	Fostering gender-inclusive learning	Integrating human values in coding JAVA			Implementing NEP will provide a multidisciplinary and holistic education that fosters critical thinking and innovation in the field of Java Programming
23.	**SEC-1006C**	PHP Programming	**2023-24**			Integrating human values in coding PHP			Implementing NEP will provide a multidisciplinary and holistic education for PHP web development
24.	**DSC-1006F1**	Advanced Computer Network	**2023-24**	Emphasizing the importance of professional ethics in Advanced Computer Network	Promoting gender diversity in Advanced Computer Network				Implementing NEP will provide a multidisciplinary and holistic education for Advanced Computer Network
25.	**DSC-1006F2**	Object Oriented Software Engineering	**2023-24**	Emphasizing the importance of professional ethics in Object Oriented software engineering	Promoting gender diversity in software Development and Design		The environmental impact of Object-Oriented software engineering practices	Explore how software development can contribute to goals such as good health, quality education, and reduced inequalities through the creation of impactful software solutions.	Implementing NEP will provide a multidisciplinary and holistic education that fosters critical thinking and innovation in the field of Object-Oriented Software Engineering.
26.	**DSC-1006F3**	Internet Technologies-II	**2023-24**	Ethical considerations in data science using Python and Flask		Fairness into the curriculum to ensure that data science projects are approached with			Implementing NEP will provide a multidisciplinary and holistic education that fosters critical thinking and

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						consideration for the well-being and values of individuals and society.			innovation in the field of Web Development using Flask.
27.	**DSC-1006F4**	Data Science using Python	**2023-24**	Ethical considerations in data science practices using Python, including responsible data handling, privacy considerations, and ethical decision-making in data analysis.	Fostering an inclusive learning environment for all students pursuing a career in data science using Python.	Integrating human values into the curriculum to ensure that data science projects are approached with consideration for the well-being and values of individuals and society.	Responsible use of computing resources in Python-based data analysis.		Implementing NEP will provide a multidisciplinary and holistic education that fosters critical thinking and innovation in the field of Data Science.
28.	**SEC-1006D**	Advanced PHP Programming	**2023-24**			Integrating human values in coding PHP Programming			
29.	**DSC03CSC11**	Problem Solving using Computers-I	**2023-24**	Plagiarism, respecting intellectual property rights and responsible use of data and technology.	Encouraging gender diversity in Problem Solving Skills	Incorporating human values into the curriculum, and fostering ethical decision-making and responsible use of technology.	Teaching the environmental impact of technology, including energy consumption and electronic waste (e-waste)		Implementing NEP will provide a multidisciplinary and holistic education that fosters critical thinking and innovation in Problem Solving using Computers
30.	**DSC03CSC12**	Introduction to DBMS-I	**2023-24**	Ethical considerations in database management, including issues related to data privacy, security, and responsible data handling practices	Promoting gender diversity in the field of database management	The curriculum ensure that database systems are developed with consideration for the well-being and needs of diverse users.		To explore how effective database systems can contribute to goals such as quality education, reduced inequalities, and responsible	Promoting creativity, critical thinking and innovation in the context of database management Systems in NEP-2020.

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								consumption and production.	
31.	**MIN03CSC11**	Problem Solving using Computers-I	**2023-24**	Plagiarism, respecting intellectual property rights and responsible use of data and technology.	Encouraging gender diversity in Problem Solving Skills	Incorporating human values into the curriculum, and fostering ethical decision-making and responsible use of technology.	Teaching the environmental impact of technology, including energy consumption and electronic waste (e-waste)		Implementing multidisciplinary and holistic education that fosters critical thinking and innovation in Problem Solving using Computers in NEP-2020
32.	**MIN03CSC12**	Introduction to DBMS-I	**2023-24**	Ethical considerations in database management, including issues related to data privacy, security, and responsible data handling practices	Promoting gender diversity in the field of database management	The curriculum ensure that database systems are developed with consideration for the well-being and needs of diverse users.		To explore how effective database systems can contribute to goals such as quality education, reduced inequalities, and responsible consumption and production.	Promoting creativity, critical thinking and innovation in the context of database management Systems in NEP-2020.
33.	**OEC03CSC11**	Fundamentals of Computer-I	**2023-24**	Highlighting the importance of professional ethics in Basics of computer science	Promoting gender diversity in the field of computer science	Integrating human values into the curriculum to ensure that fundamental computer concepts are approached with consideration for the well-being and needs of diverse users.	Discussing the environmental impact of computing practices, including considerations for energy-efficient hardware, responsible e-waste disposal, and promoting sustainable computing solutions.	Explore how computing can contribute to goals such as quality education, reduced inequalities, and sustainable cities and communities.	Promoting creativity, critical thinking and innovation in the context of Fundamentals of Computers in NEP-2020.

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34.	**OEC03CSC12**	Introduction to Web-I	**2023-24**	Ethical considerations in web development, including issues related to user privacy, security, and responsible use of web technologies.	Promoting gender diversity in the field of web development	Integrating human values into the curriculum to ensure that web applications are developed with consideration for the well-being and needs of diverse users.	Impact of web technologies, including considerations for energy-efficient server configurations, responsible data storage practices, and promoting sustainable web development.	Explore how web technologies can contribute to goals such as quality education, reduced inequalities, and sustainable cities and communities.	Promoting creativity, critical thinking and innovation in the context of NEP-2020.
35.	**IKS03GEC11**	Indian Knowledge System	**2023-24**	Highlighting ethical considerations in the study and application of Indian Knowledge System, including issues related to cultural sensitivity, respect for diverse perspectives, and responsible use of traditional knowledge.	Promoting gender inclusivity in the exploration of Indian Knowledge System	Integrating human values such as cultural diversity, inclusivity, and respect into the curriculum to ensure that the study of Indian Knowledge System is approached with consideration for the well-being and cultural values of individuals and communities.	Incorporating the environmental and sustainable practices embedded in traditional Indian knowledge into the curriculum, emphasizing the importance of ecological balance and sustainable living practices.	To explore how traditional knowledge can contribute to goals such as good health, quality education, and sustainable communities.	Following to the principles and reforms outlined in the National Education Policy-2020, which emphasize a holistic and multidisciplinary education approach. This includes fostering an appreciation for the rich cultural heritage and knowledge systems of India through the study of IKS.
36.	**DSC03CSC21**	Problem Solving using Computers-II	**2023-24**	Plagiarism, respecting intellectual property rights and responsible use of data and technology.	Encouraging gender diversity in Problem Solving Skills	Incorporating human values into the curriculum, and fostering ethical decision-making and responsible use of technology.	Teaching the environmental impact of technology, including energy consumption and electronic waste (e-waste)		Implementing multidisciplinary and holistic education that fosters critical thinking and innovation in Problem Solving using Computers in NEP-2020

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37.	**DSC03CSC22**	Introduction to DBMS-II	**2023-24**	Ethical considerations in database management, including issues related to data privacy, security, and responsible data handling practices	Promoting gender diversity in the field of database management	The curriculum ensure that database systems are developed with consideration for the well-being and needs of diverse users.		To explore how effective database systems can contribute to goals such as quality education, reduced inequalities, and responsible consumption and production.	Promoting creativity, critical thinking and innovation in the context of database management Systems in NEP-2020.
38.	**MIN03CSC21**	Problem Solving using Computers-II	**2023-24**	Plagiarism, respecting intellectual property rights and responsible use of data and technology.	Encouraging gender diversity in Problem Solving Skills	Incorporating human values into the curriculum, and fostering ethical decision-making and responsible use of technology.	Teaching the environmental impact of technology, including energy consumption and electronic waste (e-waste)		Implementing multidisciplinary and holistic education that fosters critical thinking and innovation in Problem Solving using Computers in NEP-2020
39.	**MIN03CSC22**	Introduction to DBMS-II	**2023-24**	Ethical considerations in database management, including issues related to data privacy, security, and responsible data handling practices	Promoting gender diversity in the field of database management	The curriculum ensure that database systems are developed with consideration for the well-being and needs of diverse users.		To explore how effective database systems can contribute to goals such as quality education, reduced inequalities, and responsible consumption and production.	Promoting creativity, critical thinking and innovation in the context of database management Systems in NEP-2020.
40.	**OEL03CSC21**	Fundamentals of Computer-II	**2023-24**	Highlighting the importance of professional ethics in Basics of computer science	Promoting gender diversity in the field of computer science	Integrating human values into the curriculum to ensure that fundamental computer concepts are approached with consideration for	The environmental impact of computing practices, including considerations for energy-efficient hardware, responsible e-waste disposal, and	Explore how computing can contribute to goals such as quality education, reduced inequalities, and sustainable cities and communities.	Promoting creativity, critical thinking and innovation in the context of Fundamentals of Computers in NEP-2020.

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						the well-being and needs of diverse users.	promoting sustainable computing solutions.		
41.	**OEL03CSC22**	Introduction to Web-II	**2023-24**	Ethical considerations in web development, including issues related to user privacy, security, and responsible use of web technologies.	Promoting gender diversity in the field of web development	Integrating human values into the curriculum to ensure that web applications are developed with consideration for the well-being and needs of diverse users.	Impact of web technologies, including considerations for energy-efficient server configurations, responsible data storage practices, and promoting sustainable web development.	Explore how web technologies can contribute to goals such as quality education, reduced inequalities, and sustainable cities and communities.	Promoting creativity, critical thinking and innovation in the context of NEP-2020.
42.	**VSC03CSC21**	HTML and CSS	**2023-24**	Highlighting ethical considerations in web development using HTML and CSS, including issues related to user privacy, accessibility, and responsible use of web technologies.	Promoting gender diversity in the field of web development, addressing gender biases, and fostering an inclusive learning environment for all students pursuing HTML and CSS skills.	Integrating human values such as accessibility, usability, and user-centric design into the curriculum to ensure that web applications developed using HTML and CSS are aligned with the well-being and needs of diverse users.	The environmental impact of web technologies, including considerations for energy-efficient design, sustainable hosting practices, and promoting eco-friendly web development using HTML and CSS.	To explore how web technologies can contribute to goals such as quality education, reduced inequalities, and sustainable cities and communities.	Promoting creativity, critical thinking and innovation in the context of NEP-2020.

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Curriculum relevance: Course contents with cross cutting issues (PG) 2022-23 to 2023-24

Sr. No.	Course Code	Course / SECs Titles	Year of Introduction	Professional Ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development goals	NEP-2020
1.	CC-2500 A	**Design and Analysis of Algorithms**	**2022-23**	Highlighting ethical considerations in algorithm design, focusing on fairness, transparency, and responsible algorithmic use.	Promoting gender diversity in algorithmic research and development,	Integrating human values such as transparency, accountability, and ethical decision-making into algorithmic design practices to ensure that algorithms align with societal values and needs.	Discussing the environmental impact of algorithms, including considerations for computational resources and energy consumption, and promoting sustainable algorithmic practices.	Exploring how algorithm design aligns with Sustainable Development Goals in Indian education, contributing to objectives like quality education, reduced inequalities, and responsible consumption and production.	Following to the principles and recommendations outlined in the National Education Policy-2020, which encourage a multidisciplinary and holistic education. This includes fostering creativity, critical thinking, and innovation in the context of algorithm design and analysis.
2.	CC-2501 A	**Python Programming**	**2022-23**	Highlighting the importance of ethical coding practices in Python programming, including issues related to data privacy, security, and responsible development of software applications.	Promoting an inclusive learning and research environment for all students.	Integrating human values such as collaboration, empathy, and social responsibility into the curriculum to ensure that Python programming is approached with consideration for the well-being and needs of users.	Discussing the environmental impact of software applications developed using Python, including considerations for server energy consumption and promoting sustainable coding practices.	Python programming can contribute to goals such as good health, quality education, and reduced inequalities through the development of impactful software solutions.	This includes fostering creativity, critical thinking, and innovation in the context of Python programming in NEP-2020.

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3.	CC-2502 A	**Database Management System**	**2022-23**	Ethical considerations in handling of sensitive information.	Promoting gender diversity in database management	Integrating human values such as integrity, transparency, and user-centric design into the curriculum to ensure that database management systems are developed with consideration for the well-being and needs of users.	Discussing the environmental impact of database management systems, including considerations for energy consumption, data storage, and promoting sustainable data management practices.	Database technologies can contribute to goals such as quality education, reduced inequalities, and responsible consumption and production in Sustainable development.	Included creativity, critical thinking, and innovation in the context of database management in NEP-2020.
4.	CC-2503 A	**Cyber Security**	**2022-23**	The issues related to responsible disclosure, respecting user privacy and following to ethical hacking practices.	Promoting gender diversity in cybersecurity	Integrating human values such as integrity, accountability, and empathy into the curriculum to ensure that cybersecurity professionals approach their work with a focus on protecting individuals and society.	Discussing the environmental impact of cybersecurity practices, including considerations for energy consumption in maintaining secure systems and promoting sustainable cybersecurity solutions.	Aligning the study of cyber security with the IT Act to explore how cybersecurity measures can contribute to goals such as peace, justice and strong institutions, as well as partnerships for the goals.	This includes fostering creativity, critical thinking, and innovation in the context of cybersecurity education in NEP-2020.
5.	CC-2506	**Web Technology**	**2022-23**	Ethical considerations in web development and technology enhancement.	Promoting gender diversity in web design and development technology	Integrating human values such as accessibility, inclusivity, and user-centric design into the curriculum to ensure that web technologies are developed with consideration for the well-being and needs of diverse users.	Discussing the environmental impact of web technologies	To explore how web technologies can contribute to goals such as quality education, reduced inequalities, and responsible consumption and production for the societal benefits.	This includes fostering creativity, critical thinking, and innovation in the context of web technology in NEP-2020.
6.	CC-2507	**Advanced Java**	**2022-23**	the importance of ethical coding practices in advanced Java programming, including issues related to intellectual	Promoting gender diversity in advanced Java programming by providing an inclusive learning	Integrating human values such as collaboration, empathy, and social responsibility into the curriculum to ensure that Java programming is approached with consideration for the	The environmental impact of software applications developed using Java, including considerations for server energy consumption	To explore how Java programming can contribute to goals such as good health, quality education etc.	This includes fostering creativity, critical thinking, and innovation in the context of advanced Java programming

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				property, responsible software development	environment for all students.	well-being and needs of users.			
7.	CC-2508	**Android Development with Kotlin**	**2022-23**	Responsible app development practices, and to follow the guidelines in the mobile app industry.	Promoting gender diversity in Android application development,	Android apps developed with Kotlin are user-friendly, ethically designed and cater to diverse user needs.	The Environmental impact of mobile app development, including considerations for energy-efficient coding practices and sustainable design choices in Android applications.	To explore how mobile apps can contribute to goals such as quality education, reduced inequalities, and sustainable cities and communities.	This includes fostering creativity, critical thinking, and innovation in the context of Android development with Kotlin in NEP-2020.
8.	CC-2509	**Software Project Management**	**2023-24**	The ethical considerations in software project management, including issues related to fair project management practices, intellectual property rights, and ethical decision-making in project development.	Promoting inclusive work environment for all team members.	Integrating human values such as teamwork, empathy, and transparency into the curriculum to ensure that software projects are managed with consideration for the well-being and collaboration of team members.	The environmental impact of software development projects, including considerations for energy-efficient coding practices, sustainable project management methodologies, and eco-friendly software development.	To explore how project management practices can contribute to goals such as quality education, reduced inequalities, and sustainable cities and communities.	This includes fostering creativity, critical thinking, and innovation in the context of software project management in NEP-2020.
9.	CC-2512	**Artificial Intelligence**	**2023-24**	The ethical considerations in AI research and development, including issues related to bias in algorithms, responsible use of AI, and ethical decision-making in AI applications.	Promoting gender diversity in AI	Integrating human values such as transparency, accountability, and fairness into the curriculum to ensure that AI technologies are developed with consideration for the well-being and values of individuals and society.	Discussing the environmental impact of AI technologies, including considerations for the energy consumption of AI models and the carbon footprint associated with training large-scale models.	To explore how AI models can contribute to goals such as good health, quality education, and reduced inequalities.	This includes fostering creativity, critical thinking, and innovation in the context of artificial intelligence.

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10.	CC-2513	**Advanced Web Technology**	**2023-24**	Ethical considerations in advanced web technology	Promoting gender diversity in advanced web technology	Integrating human values such as accessibility, inclusivity, and user-centric design into the curriculum to ensure that advanced web technologies are developed with consideration for the well-being and needs of diverse users.	Discussing the environmental impact of web technologies, including considerations for server energy consumption, data storage, and promoting sustainable web development practices.	To explore how advanced web technologies can contribute to goals such as quality education, reduced inequalities, and responsible consumption and production.	This includes fostering creativity, critical thinking, and innovation in the context of advanced web technology in NEP-2020.
11.	CC-2514	**PHP**	**2023-24**	Ethical considerations in PHP programming	Promoting gender diversity in PHP programming	Integrating human values like accessibility, inclusivity and user-centric design into the curriculum to ensure that PHP applications are developed.	The environmental impact of web applications developed using PHP	To explore how PHP programming can contribute to quality education through the development of web applications.	This includes fostering creativity, critical thinking, and innovation in the context of PHP programming in NEP-2020.
12.	CC-2515	**Network Security Analyst**	**2023-24**	Promoting The importance of professional ethics in network security analysis	Promoting gender diversity in the field of network security	Integrating human values such as trustworthiness, transparency, and ethical decision-making into the curriculum to ensure that network security analysts approach their work with consideration for the well-being and trust of users.	The environmental impact of network security measures, including considerations for energy-efficient security protocols and promoting sustainable cybersecurity practices.	to explore how Network Security measures can contribute to goals such as peace, justice, and strong institutions, as well as partnerships for the goals.	This includes fostering creativity, critical thinking, and innovation in the context of network security analysis.

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30	OEC03ELE12	Semiconductor Devices	2023-24				Low power system design		
31	IKS03GEC11	Indian Knowledge System	2023-24	data collection, analysis	ensuring equal opportunities	Emphasize the societal impact of knowledge creation and dissemination	ecological impact	Encourage interdisciplinary research	
32	DSC03ELE21	Analog Electronics-II	2023-24				Feedback in amplifiers are relevant to energy efficiency		
33	DSC03ELE22	Digital Electronics-II	2023-24				Sequential logic: Efficient memory management		
34	MIN03ELE21	Analog Electronics-II	2023-24				Feedback in amplifiers are relevant to energy efficiency		
35	MIN03ELE22	Digital Electronics-II	2023-24				Sequential logic: Efficient memory management		
36	OEC03ELE21	Circuit Fundamentals-II	2023-24	design and analysis					Fundamentals of Electronics
37	OEC03ELE22	Semiconductor Devices and Circuits	2023-24				Low power system design		Fundamentals of Electronics
38	SEC03ELE21	Circuits Simulation Lab	2023-24	Circuit designing				system development	system development
39	DSE 1005E1	Fundamentals of Instrumentation,	2023-24				Address environmental Impact promoting sustainable practices in the design use and disposal of instrumentation tools		
40	DSE 1005E2	8051 Microcontroller	2023-24	ethical Programming and Practices			8051 based system development	8051 based system development	
41	DSE 1005E3	Antenna and Wave Propagation	2023-24				Antenna Deployment can be environmentally friendly and energy	Optimizing antenna to operate efficiently can contribute to reducing	

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							efficient	energy consumption in communication system	
42	DSE 1005E4	Industrial Process Control	2023-24	ethical decision-making in the design and operation of control systems					
43	SEC- 3	Computer Networks	2023-24	privacy, data protection					
44	DSE 1005F1	Industrial Instrumentation	2023-24	privacy, data protection			Address environmental Impact promoting sustainable practices in the design use and disposal of instrumentation tools		
45	DSE 1005F2	Advanced Microcontroller	2023-24	design, simulation, and testing of electronic circuits.					
46	DSE 1005F3	Power Electronics	2023-24				Reduce the power losses		
47	DSE 1005F4	Internet of Things (IoT)	2023-24	coding, data handling, and project development				project development	
48	SEC-4	Embedded System Design using Arduino	2023-24	ethical Programming and Practices					

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							and bioremediation .	
10	Food fermentation techniques	SEC-SE	2022-23	-	-	-	-	1.Designing techniques for food processing
11	Introduction to microbiology and microbial diversity	DSC 1010 A	2021-22	-	-	-	-	
12	Basic techniques in Microbiology	DSC 1010 B	2021-22	-	-	-	-	1. Analyze the milk microbiologically.
13	Microbial Physiology and Metabolism	DSC 1010 C1	2022-23	-	-	-	-	1. Principle and working of various instruments used in laboratory.
14	Industrial and Applied Microbiology	DSC-1010C2	2022-23	-	-	-	-	Industrial production of various products using microorganisms
15	Microbiological analysis of air and water	SEC-SE	2022-23	-		-	-	-
16	Microbial Genetics and Molecular Biology	DSC 1010 D1	2022-23	-	-	-	-	-
17	Basics in Medical Microbiology and Immunology	DSC 1010 D2	2022-23	-	-	-	-	-
19	Immunology	DSE: 1010E1	2022-23	-	-	-	-	-
20	Medical Microbiology	DSE:1010E1	2022-23	-	-	-	-	Pathogenicity of organisms associated with human infections
21	Industrial	DSE-	2022-23	-	-	-	-	-

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	Microbiology	1010E2						
22	Microbial Biochemistry	DSE-1010E2	2022-23	-	-	-	-	Extraction and purification of enzymes from microorganisms
23	Management of Human Microbial Diseases	SEC-SE	2022-23	-	-	-	-	Design the diagnostic test and therapeutic agents.
24	Virology	DSE-1010F1	2023-24	-	-	-	-	-
25	Microbial Genetics	DSE-1010F1	2023-24	-	-	-	-	PCR and DNA sequencing.
26	Agricultural Microbiology	DSE – 1010 F 2	2023-24	-	-	-	various plant microbe interactions especially rhizosphere and their applications especially the biofertilizers and their production techniques	-
27	Environmental Microbiology	DSE – 1010 F 2	2023-24	-	-	-	Microorganisms responsible for water pollution and their transmission	-
28	Food fermentation techniques	SEC-SE	2023-24	-	-	-	-	Small scale food industry
29	Introduction to Microbiology	DSC03 MIC11	2023-24	-	-	-	-	-
30	Bacteriology	DSC03 MIC12	2023-24	-	-	-	Identification of unknown microorganisms	Electron Microscope
31	Introduction to Microbiology	MIN03 MIC11	2023-24	-	-	-	-	-
32	Bacteriology	MIN03 MIC12	2023-24	-	-	-	Identification of unknown microorganisms	Electron Microscope
33	General	OEC03	2023-24	-	-	-	-	-

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	Microbiology	MIC11						
34	Techniques in Microbiology	OEC03 MIC12	2023-24	-	-	-	Identification of Microorganisms	Electron microscope
35	Basic Biochemistry	DSC03 MIC21		-	-	-	-	Organization of nucleic acid
36	Microbial nutrition and techniques	DSC03 MIC22		-	-	-	-	Culture collection centres
37	Basic Biochemistry1	MIN03 MIC21		-	-	-	-	Organization of nucleic acid
38	Microbial nutrition and techniques	MIN03 MIC22		-	-	-	-	Culture collection centres
39	Microbial nutrition and control	OEC03 MIC21		-	-	-	-	-
40	Water and air Microbiology	OEC03 MIC22		-	-	-	Microbiological analysis of water	Microbiological analysis of water

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PG Department of Microbiology

Content with Cross-cutting Issues

Academic Year 2022-23

Sr. No.	Name of the Course	Course Code	Year of Introduction	Professional Ethics	Gender	Human Values	Environment & Sustainability	Sustainable Development Goals
1.	Taxonomy and Microbial Diversity	CC- 2400	2022-23	-	-	-	-	Diversity of microorganisms
2.	Virology	CC- 2401	2022-23	-	-	-	Destruction of viruses	Prevention of human and plant viral diseases
3.	Genetics and Molecular Biology	CC- 2402	2022-23	-	-	-	-	Advanced techniques used in molecular genetics
4.	Immunology	CC- 2403	2022-23	-	-	-	Prevention of diseases	Various serodiagnostic techniques of diseases

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5.	Techniques in Microbiology	CC-2406	2022-23	-	-	-	-	Different applications of the techniques in the research work
6.	Microbial Physiology, Biochemistry and Metabolism	CC-2407	2022-23	-	-	-	-	Biosynthesis of macromolecules
7.	Medical Microbiology	CC-2408	2022-23	-	-	-	Prevention of bacterial, fungal, and viral diseases in humans	Prevention of bacterial, fungal, and viral diseases in humans
8.	Microbial Ecology	CC-2409	2022-23	-	-	-	Control of pest with biological way	Control of pest with biological way

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14	Discrete Probability Distributions	DSC - 1004 B	2021-22				Standard Discrete Probability Distributions		
B. Sc. II Statistics (Newly Introduced in 2022-23)									
15	Probability Distributions I	DSC - 1004 C1	2022-23				Continuous Univariate & Bivariate Distributions		
16	Statistical Methods	DSC - 1004 C2	2022-23	1.Index Number 2.Multiple linear Regression 3.Multiple and Partial Correlation	Official Statistics				
17	Probability Distributions II	DSC - 1004 D1	2022-23				Exact sampling distributions		
18	Introduction to Reliability Theory & Testing of Hypothesis	DSC - 1004 D2	2022-23	Testing of Hypothesis					
B. Com. II (Newly Introduced in 2022-23)									
19	Business Statistics I	CC - 1051 C	2022-23	1. Measures of central tendency 2. Measures of dispersion					

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				3. Correlation 4. Regression, Sampling techniques					
20	Business Statistics II	CC - 1051 D	2022-23	Index Number				Statistical Quality Control	
B. Sc. I Statistics (NEP 2020 Newly Introduced in 2023-24)									
21	Descriptive Statistics I	DSC03STA11	2023-24	Descriptive Statistics					
22	Elementary Probability Theory	DSC03STA12	2023-24	Probability			Probability		
23	Descriptive Statistics I	MIN03STA11	2023-24	Descriptive Statistics					
24	Elementary Probability Theory	MIN03STA12	2023-24	Probability			1. Probability Univariate probability distributions		
25	Data Visualization & Sample Survey	OEC03STA11	2023-24	1.Sample Survey 2.Data Visualization & Presentation of Data					
26	Exploratory Data Analysis	OEC03STA12	2023-24	Descriptive Statistics					
B. Com. I Statistics (NEP 2020 Newly Introduced in 2023-24)									
27	Business Statistics I	SEC02STA11		1. Measures of central tendency					

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				2. Measures of dispersion					
28	Business Statistics II	SEC02STA21					Probability and Discrete Probability Distributions	Statistical Quality Control (S.Q.C.)	
B. Sc. III Statistics (Newly Introduced in 2023-24)									
29	Probability Distributions	DSE 1004E1	2023-24				1.Univariate and Multivariate Probability Distributions		
30	Statistical Inference - I	DSE 1004E2	2023-24	1. Point Estimation 2. Methods of Estimation					
31	Sampling Theory	DSE 1004E3	2023-24	1. SRS and Stratified Sampling 2. Systematic Sampling 3. Cluster Sampling					
32	Operations Research	DSE 1004E4	2023-24	Decision Theory		Simulation Techniques		1.Linear programming Problem 2.Transportation, Assignment and Sequencing Problems	
33	Probability Theory	DSE 1004F1	2023-24	Queuing Theory	Finite Markov Chains				

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34	Statistical Inference -II	DSE 1004F2	2023-24	Interval Estimation					
35	Design of Experiments	DSE 1004F3	2023-24	Simple Designs of Experiments, ANOCOVA and Factorial Experiments and confounding					
36	Quality Management	DSE 1004F4	2023-24					1.Process Control 2.Product Control	

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Department of Statistics

Content with Cross Cutting Issues P. G. 2022-23 to 2023-24

Sr. No.	Name of the Course	Course Code	Year of Introduction	Professional Ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development Goals	NEP 2020
M. Sc. I Statistics (Newly Introduced in 2022-23)									
1	Real Analysis	CC-2300A	2022-23					1. Set of real numbers 2. Sequence of real numbers Real valued function	
2	Linear Algebra	CC-2301A	2022-23	1.Vector space 2.Subspace				Characteristic roots and vectors of a matrix	
3	Distribution Theory	CC-2302A	2022-23	1.Transformations of univariate random variables			1.Mixtures of probability distributions 2.Decomposition of mixture CDF into discrete and continuous CDF		
4	Estimation Theory	CC-2303A	2022-23	1.Problem of point estimation					

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				2.Bayes estimation					
5	Statistical Computing	CC-2304A	2022-23	Resampling techniques					
6	Probability Theory	CC-2306B	2022-23			1. Classes of sets 2. Weak and Strong laws of large numbers			
7	Theory of Testing of Hypotheses	CC-2307B	2022-23	1. Problem of testing of Hypothesis 2. Problem of confidence intervals					
8	Linear Models and Regression analysis	CC-2308B	2022-23	1. General linear model 2. Multiple regression model					
9	Design and analysis of Experiment	CC-2309B	2022-23	1. Experimental designs 2. Applications of DOE					
10	Sampling Theory & Official Statistics	CC-2310B	2022-23	1.Random samplings 2.Double sampling					
M. Sc. II Statistics (Newly Introduced in 2023-24)									
11	Asymptotic Inference	CC-2312A	2023-24	Consistency of an estimator					

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12	Multivariate Analysis	CC-2313A	2023-24	Exploratory multivariate data analysis				1. Discrimination and classification 2. Canonical correlation analysis 3. Principal component analysis Factor analysis	
13	Stochastic Processes	CC-2314A	2023-24	1. Poisson process 2. Birth and death processes 3. Queuing models		Markov chain			
14	Data Mining	CC-2315A	2023-24	1. ANN and SVM, Unsupervised learning, Data understanding and data cleaning 2. Model evaluation and selection				classification techniques	
15	Time Series Analysis	CC-2316A	2023-24				Exploratory time series analysis		

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16	Generalized Linear Models	CC-2318B	2023-24	1. Logistic regression 2. Poisson regression, Generalized linear models 3. Generalized linear mixed models (GLMM)				1. Logistic regression 2. Poisson regression 3. Generalized linear models 4. Generalized linear mixed models (GLMM)	
17	Survival Analysis	CC-2319B	2023-24	1. Various types of censoring 2. Summarizing competing risks data					
18	Biostatistics	CC-2320B	2023-24	Clinical trials			1. Design of clinical trials 2. Design of bio-equivalence trials, 3. Epidemiological studies		
19	Optimization Techniques	CC-2321B	2023-24					1. Linear programming problem (LPP) 2. Integer Linear Programming Problem (ILPP) 3. Dynamic Programming	

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20	Statistical Quality Control	CC-2322B	2023-24	1. Process capability Analysis 2. Shewhart Control charts 3. Acceptance sampling plans				1. Process capability Analysis 2. Shewhart Control charts 3. Quality Improvement Tools 4. Normal probability plot	
M. Sc. I Statistics (NEP 2020 Newly Introduced in 2023-24)									
21	Distribution Theory	DSC18STA11	2023-24	1. Transformations of univariate random variables 2. Multivariate normal distribution			1.Mixtures of probability distributions 2.Decomposition of mixture CDF into discrete and continuous CDFs		
22	Estimation Theory	DSC18STA12	2023-24	1. Problem of point estimation 2. Bayes estimation, 3. Consistency of an estimator					
23	Statistical Computing	DSC18STA13	2023-24	1. MSEXCEL 2. R-software				1.MSEXCEL 2.R-software	
24	Research Methodology	RMD18STA11	2023-24	1. Sampling techniques 2. Resampling methods				1.Meaning of research 2.Objectives of research 3.Motivation in research	

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25	Mathematical Statistics	DSE17STA11	2023-24					1. Set of real numbers 2. Sequence of real numbers 3. Real valued function	
26	Real Analysis	DSE17STA12	2023-24					1.Set of real numbers 2. Sequence of real numbers	
27	Linear Algebra	DSE17STA13	2023-24	1.Vector space 2.Subspace					
28	C Programming	DSE18STA11	2023-24	1.Algorithms 2.Flow charts					
29	Statistical Analysis Using SPSS	DSE18STA12	2023-24	Statistical analysis using SPSS				Statistical analysis using SPSS	
30	Linear model and Regression Analysis	DSC18STA21	2023-24	1. Logistic and Poisson regression 2. General linear model 3. Multiple regression model				1. Logistic and Poisson regression 2. General linear model 3. Multiple regression model	
31	Theory of Testing of Hypothesis	DSC18STA22	2023-24	1. Problem of testing of Hypothesis 2. Problem of confidence intervals					

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32	Multivariate Analysis	DSC18STA23	2023-24	Cluster analysis				1.Discrimination and classification, 2. Canonical correlation analysis 3. Principal component analysis 4.Factor analysis	
33	Probability Theory	DSE17STA21	2023-24					Classes of sets	
34	Reliability theory	DSE17STA22	2023-24	1. Reliability concepts and measures 2. Life time distributions					
35	DBMS	DSE18STA21	2023-24	1. Database design and ER Model 2. Transaction management		Introduction to Databases and Data Models		SQL	
36	Statistical Analysis Using Minitab	DSE18STA22	2023-24	Statistical analysis using MINITAB				Statistical analysis using MINITAB	

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				3. Correlation 4. Regression, Sampling techniques					
20	Business Statistics II	CC - 1051 D	2022-23	Index Number				Statistical Quality Control	
B. Sc. I Statistics (NEP 2020 Newly Introduced in 2023-24)									
21	Descriptive Statistics I	DSC03STA11	2023-24	Descriptive Statistics					
22	Elementary Probability Theory	DSC03STA12	2023-24	Probability			Probability		
23	Descriptive Statistics I	MIN03STA11	2023-24	Descriptive Statistics					
24	Elementary Probability Theory	MIN03STA12	2023-24	Probability			1. Probability Univariate probability distributions		
25	Data Visualization & Sample Survey	OEC03STA11	2023-24	1.Sample Survey 2.Data Visualization & Presentation of Data					
26	Exploratory Data Analysis	OEC03STA12	2023-24	Descriptive Statistics					
B. Com. I Statistics (NEP 2020 Newly Introduced in 2023-24)									
27	Business Statistics I	SEC02STA11		1. Measures of central tendency					

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				2. Measures of dispersion					
28	Business Statistics II	SEC02STA21					Probability and Discrete Probability Distributions	Statistical Quality Control (S.Q.C.)	
B. Sc. III Statistics (Newly Introduced in 2023-24)									
29	Probability Distributions	DSE 1004E1	2023-24				1.Univariate and Multivariate Probability Distributions		
30	Statistical Inference - I	DSE 1004E2	2023-24	1. Point Estimation 2. Methods of Estimation					
31	Sampling Theory	DSE 1004E3	2023-24	1. SRS and Stratified Sampling 2. Systematic Sampling 3. Cluster Sampling					
32	Operations Research	DSE 1004E4	2023-24	Decision Theory		Simulation Techniques		1.Linear programming Problem 2.Transportation, Assignment and Sequencing Problems	
33	Probability Theory	DSE 1004F1	2023-24	Queuing Theory	Finite Markov Chains				

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34	Statistical Inference -II	DSE 1004F2	2023-24	Interval Estimation					
35	Design of Experiments	DSE 1004F3	2023-24	Simple Designs of Experiments, ANOCOVA and Factorial Experiments and confounding					
36	Quality Management	DSE 1004F4	2023-24					1.Process Control 2.Product Control	

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DEPARTMENT OF STATISTICS
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Dr. R. R. Kumbhar
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"Dissemination of Education for Knowledge, Science and Culture"

-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur (AUTONOMOUS)

Department of Statistics

Content with Cross Cutting Issues P. G. 2022-23 to 2023-24

Sr. No.	Name of the Course	Course Code	Year of Introduction	Professional Ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development Goals	NEP 2020
M. Sc. I Statistics (Newly Introduced in 2022-23)									
1	Real Analysis	CC-2300A	2022-23					1. Set of real numbers 2. Sequence of real numbers Real valued function	
2	Linear Algebra	CC-2301A	2022-23	1.Vector space 2.Subspace				Characteristic roots and vectors of a matrix	
3	Distribution Theory	CC-2302A	2022-23	1.Transformations of univariate random variables			1.Mixtures of probability distributions 2.Decomposition of mixture CDF into discrete and continuous CDF		
4	Estimation Theory	CC-2303A	2022-23	1.Problem of point estimation					

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				2.Bayes estimation					
5	Statistical Computing	CC-2304A	2022-23	Resampling techniques					
6	Probability Theory	CC-2306B	2022-23			1. Classes of sets 2. Weak and Strong laws of large numbers			
7	Theory of Testing of Hypotheses	CC-2307B	2022-23	1. Problem of testing of Hypothesis 2. Problem of confidence intervals					
8	Linear Models and Regression analysis	CC-2308B	2022-23	1. General linear model 2. Multiple regression model					
9	Design and analysis of Experiment	CC-2309B	2022-23	1. Experimental designs 2. Applications of DOE					
10	Sampling Theory & Official Statistics	CC-2310B	2022-23	1.Random samplings 2.Double sampling					
M. Sc. II Statistics (Newly Introduced in 2023-24)									
11	Asymptotic Inference	CC-2312A	2023-24	Consistency of an estimator					

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12	Multivariate Analysis	CC-2313A	2023-24	Exploratory multivariate data analysis				1. Discrimination and classification 2. Canonical correlation analysis 3. Principal component analysis Factor analysis	
13	Stochastic Processes	CC-2314A	2023-24	1. Poisson process 2. Birth and death processes 3. Queuing models		Markov chain			
14	Data Mining	CC-2315A	2023-24	1. ANN and SVM, Unsupervised learning, Data understanding and data cleaning 2. Model evaluation and selection				classification techniques	
15	Time Series Analysis	CC-2316A	2023-24				Exploratory time series analysis		

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16	Generalized Linear Models	CC-2318B	2023-24	1. Logistic regression 2. Poisson regression, Generalized linear models 3. Generalized linear mixed models (GLMM)				1. Logistic regression 2. Poisson regression 3. Generalized linear models 4. Generalized linear mixed models (GLMM)	
17	Survival Analysis	CC-2319B	2023-24	1. Various types of censoring 2. Summarizing competing risks data					
18	Biostatistics	CC-2320B	2023-24	Clinical trials			1. Design of clinical trials 2. Design of bio-equivalence trials, 3. Epidemiological studies		
19	Optimization Techniques	CC-2321B	2023-24					1. Linear programming problem (LPP) 2. Integer Linear Programming Problem (ILPP) 3. Dynamic Programming	

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20	Statistical Quality Control	CC-2322B	2023-24	1. Process capability Analysis 2. Shewhart Control charts 3. Acceptance sampling plans				1. Process capability Analysis 2. Shewhart Control charts 3. Quality Improvement Tools 4. Normal probability plot	
M. Sc. I Statistics (NEP 2020 Newly Introduced in 2023-24)									
21	Distribution Theory	DSC18STA11	2023-24	1. Transformations of univariate random variables 2. Multivariate normal distribution			1.Mixtures of probability distributions 2.Decomposition of mixture CDF into discrete and continuous CDFs		
22	Estimation Theory	DSC18STA12	2023-24	1. Problem of point estimation 2. Bayes estimation, 3. Consistency of an estimator					
23	Statistical Computing	DSC18STA13	2023-24	1. MSEXCEL 2. R-software				1.MSEXCEL 2.R-software	
24	Research Methodology	RMD18STA11	2023-24	1. Sampling techniques 2. Resampling methods				1.Meaning of research 2.Objectives of research 3.Motivation in research	

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25	Mathematical Statistics	DSE17STA11	2023-24					1. Set of real numbers 2. Sequence of real numbers 3. Real valued function	
26	Real Analysis	DSE17STA12	2023-24					1.Set of real numbers 2. Sequence of real numbers	
27	Linear Algebra	DSE17STA13	2023-24	1.Vector space 2.Subspace					
28	C Programming	DSE18STA11	2023-24	1.Algorithms 2.Flow charts					
29	Statistical Analysis Using SPSS	DSE18STA12	2023-24	Statistical analysis using SPSS				Statistical analysis using SPSS	
30	Linear model and Regression Analysis	DSC18STA21	2023-24	1. Logistic and Poisson regression 2. General linear model 3. Multiple regression model				1. Logistic and Poisson regression 2. General linear model 3. Multiple regression model	
31	Theory of Testing of Hypothesis	DSC18STA22	2023-24	1. Problem of testing of Hypothesis 2. Problem of confidence intervals					

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32	Multivariate Analysis	DSC18STA23	2023-24	Cluster analysis				1.Discrimination and classification, 2. Canonical correlation analysis 3. Principal component analysis 4.Factor analysis	
33	Probability Theory	DSE17STA21	2023-24					Classes of sets	
34	Reliability theory	DSE17STA22	2023-24	1. Reliability concepts and measures 2. Life time distributions					
35	DBMS	DSE18STA21	2023-24	1. Database design and ER Model 2. Transaction management		Introduction to Databases and Data Models		SQL	
36	Statistical Analysis Using Minitab	DSE18STA22	2023-24	Statistical analysis using MINITAB				Statistical analysis using MINITAB	

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9.	Semiconductor Devices and Instrumentation and Elements of Modern Physics	DSC1001F1	2020-21				1. Bipolar Junction transistors 2. Operational Amplifiers (Black Box approach)	1. Semiconductor Devices and Amplifiers 2. Timer IC 3. Atomic Physics 4. Molecular Physics 5. Laser Physics 6. Space science	
10.	Solid State Physics I and II	DSC1001F2	2020-21				1. Crystal structure 2. Lattice vibrations and thermal properties of solids	1. Magnetic properties of materials 2. Superconductivity	
B.Sc. I Physics (Revised between 2021-22 and 2023-24)									
11.	Mechanics	DSC1001A	2021-22	1. Frames of reference - Inertial and Non-inertial frame with examples 2. Newton laws of motion and their proof			1. Energy conservation 2. Newton's Law of Gravitation 3. Kepler's Laws (statement only) 4. Elasticity	1. Gravitation 2. Special theory of relativity	
12.	Electricity And Magnetism	DSC1001B	2021-22				3. Magnetism Electromagnetic Induction	Electromagnetic Induction	
13.	Thermal Physics, Statistical Mechanics-I and	DSC1001C	2022-23				1. Kinetic Theory of Gases and thermometry		

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	Waves, Oscillations And Acoustics						2. Laws of Thermodynamics		
14.	Thermal Physics, Statistical Mechanics-II and Optics	DSC1001D	2022-23					1. Sound and Acoustics of buildings 2. Physics of low pressure	
15.	Fundamentals of Astronomy and Fundamentals of Astrophysics	DSC-1511C1	2022-23				1. History of Astronomy and Apparent Luminosity of Stars	1. The Sky, Calendar and Celestial coordinates 2. The Stellar distances 3. Constellations, Comets, Asteroids, Meteors	
16.	Galaxies, Cosmology, solar system and cosmic electrodynamics	DSC-1511C2	2022-23				1. Basic Tools of Astronomers 2. The Nature of Light and Message of The Star Light	1. The Nature of Light and Message of The Star Light 2. Theories on origin of stars	
17.	Nuclear and Particle Physics and Mathematical Physics	DSC1001E1	2023-24				1. Basic static properties of nucleus 2. Nuclear models and Nuclear forces 3. Radioactivity and nuclear reactions	1. Particle Accelerator 2. Detectors 3. Orthogonal curvilinear co-ordinates 4. Fourier series and integrals	

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18.	Quantum Mechanics and Solid State Physics I	DSC1001E2	2023-24				1. Applications of Schrodinger's steady state equation 2. Crystal structure 3. Lattice vibrations and thermal properties of solids	1. Magnetic properties of materials 2. Superconductivity 3. Introduction to quantum mechanics	
19.	Semiconductor Devices and Instrumentation and Classical Mechanics	DSC1001F1	2023-24				1. Bipolar Junction transistors 2. Operational Amplifiers (Black Box approach) 3. Scattering of particles 4. Rigid body motion	1. Semiconductor Devices and Amplifiers 2. Timer IC 3.	
20.	Elements of Modern Physics and Solid State Physics II	DSC1001F2	2023-24				1. X-Ray Diffraction 2. Dielectric Properties of Materials 3. Elementary band theory	3. Atomic Physics 4. Molecular Physics 5. Laser Physics 6. Space science	

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15	Introducti on to computers	CC-CS-1303 A1	2021-22	**1:** Characteristics & features of Computers, Components of Computers, Organization of Computer, Generation of Computers			1: Input Devices 2:Output evices 3.Types of Memory (Primary And Secondary) Secondary Storage Devices		
16	Programm ing in C-I	CC-CS-1303 A2	2021-22	1: Program and programming, Programming languages, 2: Algorithm: Definition, Examples, Characteristics of an algorithm, Notation of Algorithm, 3:Pseudo code conventions, Flowcharts- Definition, Symbol, features.					

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DEPARTMENT OF B.SC. COMPUTER SCIENCE
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17	Introduction to RDBMS using MySQL and Object Oriented Programming Using C++	CC-CS-1303 C1	2022-23	1: Data, Database, Database Management System, Concept of RDBMS, RDBMS Terminologies : relation, attribute, domain, tuple, entities 2: Structure of C++ program, Input and output Streams, Memory management operators				1: Responsibilities of DBA	
18	Introduction to SQLite	SEC-I	2022-23	1: Create, open, drop database files 2: SQLite DataTypes 3:Create, Alter, drop table with example				1: Downloading and installing SQLite 2: Features of SQLite 3: Appropriate uses of SQLite: When to use, why to use. 4: Limitations of SQLite	

19	Introduction to Data Structure Using C++ and Cyber Security Essentials	CC-CS1303 D	2022-23	Definitions: Data types, Data Object, Data structure, Abstract Data Type (concept), Data Structure classification, Algorithm Efficiency: Complexity, Big O notation, Array: Definition, Types of array (one dimensional and multidimensional), sparse matrices.		Cyber Security Laws: Security Laws(IT Act India), Intellectual Property Rights(Copyright, Plagarism), SecurityAudit.		Access Controls: Overview of Authentication and Authorization,	
20	Python Programming	SEC-II	2022-23	1: working with open, read, write, append modes of file				Applications of Python, Why Python? Installation of python, First program in Python, Comments and Docstrings in Python	

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(Miss Pallavi Dassai)
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				mechanism for phenotypic disease					
Sr No.	**Course Name Biotechnology-Entire**	**Course Code**	**Year of implementation**	**Related Professional Ethics**	**related to Gender**	**relevance to Human Values**	**relevance to Environment & Sustainability**	**Sustainable development Goals**	**NEP 2020**
22	Plant Tissue Culture	DSC-1350-C	2021-2022			Use of poor but skilled labour in PTC	Induction of Somaclonal variation in plants	Micropropagation	--
23	Immunology	DSC-1345-D	2021-2022	Attenuated organism used in preparation of vaccine			Treatment of waste from diagnostic labs		--
24	Advances in Cell Biology	DSC-1346-D	2021-2022			Importance of cell and tissue			--
25	Plant Biochemistry	DSC-1347-D	2021-2022				Importance of photosynthesis	Importance of secondary metabolite	--
26	Environment Biotechnology	DSC-1348-D	2022-2023				Air, Water and Soil Pollution	Study the methods for Bioremediation	--
27	Molecular Biology -II	DSC-1349-D	2022-2023	Regulation of gene expression using chemicals					--
28	Animal Tissue Culture	DSC-1350-D	2022-2023					Importance of stem cell culture	--
29	Basics in Genetic Engineering	DSC-1355-E	2022-2023	Permission of extraction of			Use of fluorescent		--

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				DNA sample for unethical tissues			dyes and radiolabel probes		
Sr No.	**Course Name Biotechnology-Entire**	**Course Code**	**Year of implementation**	**Related Professional Ethics**	**related to Gender**	**relevance to Human Values**	**relevance to Environment & Sustainability**	**Sustainable development Goals**	**NEP 2020**
30	Industrial Biotechnology	DSC-1356-E	2022-2023					Use of fermentation from economically important metabolites	--
31	Application Biotech Agriculture	DSC-1357-E	2022-2023				Improvement in crop production	Use of Biopesticides and Bio herbicides	--
32	Development Biology	DSC-1358-E	2022-2023		Study of Gametogenesis in humans				--
33	Advances in Genetic engineering	DSC-1355-F	2022-2023	Molecular diagnostics use for humans		Use of 18S rRNA for human identification			--
34	Food & Microbial Biotechnology	DSC-1356-F	2022-2023				Importance of food security principles		--
35	Application of Biotech Health	DSC-1357-F	2022-2023	Introduction of trans genes in humans		Use of mammals in cloning			--
36	Bioinformatics	DSC-1358-F	2022-2023	Storing human biological sequences in databases				Creation of big database required for study of different	--

								organisms	
B.Sc-I Biotechnology Entire NEP 2023 (As Per NEP 2020)									
Sem - I									
Sr No.	**Course Name Biotechnology-Entire**	**Course Code**	**Year of implementation**	**Related Professional Ethics**	**related to Gender**	**relevance to Human Values**	**relevance to Environment & Sustainability**	**Sustainable development Goals**	**NEP 2020**
1	Biotechnology-I (Biotechnology for human welfare-I)	DSC07BTE11	2023	Types of Vaccine and Vaccine trial s on Humans		Evidence collection, Toxicology and Serology	Understand the importance of Biotechnology Health		
2	Biotechnology-II (Biochemistry-I)	DSC07BTE12	2023				Conservation Biotechnology		
3	Microbiology-I (Introduction to Microbial world)	MIN07BTE11	2023						
4	Microbiology-II (Techniques in Microbiology)	MIN07BTE12	2023			Conclude different modes of transmission of disease.			
5	(Bio-6Instrumentation-I)	OEC07BTE11	2023	Limited use of bio analytical techniques					
6	(Plant Sciences)	OEC07BTE12	2023					Factors affecting seed germination	
7	English	AEC07ENG11	2023		Professional communication skills of male and females				
	Sem – II								
1	Biotechnology -	DSC07BTE21	2023	Use of				Agricultural	

	III (Biotechnology for human welfare-II)			Genetically Biotechnology crops				Biotechnology	
Sr No.	**Course Name Biotechnology-Entire**	**Course Code**	**Year of implementation**	**Related Professional Ethics**	**related to Gender**	**relevance to Human Values**	**relevance to Environment & Sustainability**	**Sustainable development Goals**	**NEP 2020**
2	Biotechnology-IV (Biochemistry-I)	DSC07BTE22	2023	Use of vitamins and minerals from animals					
3	Microbiology-III (Bacterial Cytology and Cultivation)	MIN07BTE21	2023	Use of auxotrophic mutants			Factors affecting the growth of microorganisms		
4	Microbiology-IV (Virology)	MIN07BTE22	2023					Cultivation of Viruses for production of Vaccine	
5	(Ecology)	OEC07BTE21	2023				Conservation of biodiversity		
6	(Animal Sciences)	OEC07BTE22	2023		Human Potency, Cell fate and Cell lineage				
7	(Basics in Cell Biology)	SEC07BTE21	2023				Importance of different cells of different genus		
8	English	AEC07ENG21	2023	Use of cultured communication languages					

M.Sc-I Biotechnology Entire NEP 2023 (As Per NEP 2020)									
Sem - I									
Sr No.	**Course Name Biotechnology-Entire**	**Course Code**	**Year of implementation**	**Related Professional Ethics**	**related to Gender**	**relevance to Human Values**	**relevance to Environment & Sustainability**	**Sustainable development Goals**	**NEP 2020**
1	Biological Chemistry	DSC21MBT11	2023				Biological importance of water		
2	Microbial technology	DSC21MBT12	2023	Microbial interaction				Measurement of microbial growth	
3 Optional Subject	Environmental Biotechnology and Ecology	DSE21MBT11	2023					Agricultural bioremediation	
	Genetics and Basic Cell Biology	DSE21MBT12	2023				Inbreeding selfing in plants		
4	Research Methodology	RMD21MBT11	2023					Carbon dating	

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DEPARTMENT OF BIOTECHNOLOGY (ENTIRE)
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Biotechnology Optional

S.N.	Name of Course	Course code	Year of introduced	Professional ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development goals
4	**B.Sc.I**							
1	Paper-I Basics of Biotechnology I	DSC-1009A 1	2021-22	Concept of biomolecules and the scope of Biotechnology Role of vitamins in daily life	-		By application of plant tissue culture preservation of endangered species as well as medicinal species	Various applications of biotechnology to study sustainable development
	Paper-II Basics of Biotechnology II	DSC-1009A 2	2021-22					Basic techniques cell disruption centrifugation colorimetry and spectroscopy microscopy
	Paper-III Microbiology	DSC-1009B 1	2021-22	-	-		Beneficial and harmful activities of microorganisms	
	Paper-IV Cell biology and genetics	DSC-1009B 2	2021-22	-			crossing over helps in species diversity & evolution	
5	**B.Sc.II**							
1	Paper-V- Enzyme technology	DSC-1009C 1	2022-23	-	-	-	-	Study of immobilized enzymes Biosensors and their applications
2	Paper-VI-Molecular Biology	DSC-1009C 2	2022-23	-	-	-	-	-
3	PaperVII-Immunology	DSC-1009 D1	2022-23	-	-	-	Types of immunity as well as study of antigen-antibody	-

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							reaction important for disease diagnosis	
S.N.	**Name of Course**	**Course code**	**Year of introduced**	**Professional ethics**	**Gender**	**Human Values**	**Environment and Sustainability**	**Sustainable Development goals**
4	Paper VIII- r-DNA technology	DSC-1009D 2	2022-23	Crucial proteins required for health problems and dietary purposes can be produced safely, sufficiently	-	-	-	Development of recombinant vaccine and somatotropin hormone, interferon-like substances
5	SEC- Introduction to molecular diagnostic	SEC Sem IV	2022-23		-	-	-	Diagnostic microbiology
6	**B.Sc. III**							
1	Plant Biotechnology	DSC-1009E 1	2023-24		-			Understanding of techniques to cultivate plant tissues *in vitro*
2	Animal Tissue Culture	DSCE 2	2023-24	-		Need of animal tissue culture to produce the vaccine		
3	Large Scale Manufacturing I	DSC-1009E 3	2023-24		-			
4	Large Scale Manufacturing II	DSC-1009E 4	2023-24	about Intellect Property Rights and patenting			-	Intellect Property Rights and patenting
5	Advances in Biotechnology Biochemical techniques	DSC-1009F 1	2023-24	-				

S.N.	Name of Course	Course code	Year of introduced	Professional ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development goals
6	Gene Technology and Bioinformatics	DSC-1009F2	2023-24	-				work in molecular diagnostic and Bioinformatics laboratory.
7	Cell Metabolism and Virology	DSC-1009F3	2023-24	-	-			
8	Environmental Biotechnology	DSC1 009F4	2023-24	to grow healthy crops without chemical pesticides	-		Implementation of green revolution i.e. to attain reduce, reuse & recycle	
9	Entrepreneurship development	SEC Sem V	2023-24					
10	Ecology	SEC Sem VI	2023-24	-	-		different industrial indicators of pollution	
7	**B.Sc,I NEP**	**Sem I**	2023-24					
1	Fundamentals of Biotechnology Paper I	Major	2023-24	-	-	Specify types of Diabetes & and symptoms and remedies.		Specify types of Diabetes & and symptoms and remedies.
2	Fundamentals of Biotechnology Paper II	Major	2023-24	-	-			
3	Microbiology	Major	2023-24	-	-			

S.N.	Name of Course	Course code	Year of introduced	Professional ethics	Gender	Human Values	Environment and Sustainability	Sustainable Development goals
4	Cell Biology and genetics	Major	2023-24	-	-			
5	Basics of Biotechnology -I	Minor	2023-24	-	-		Types of Diabetes causes, and remedies	
6	Basics of Biotechnology -II	Minor	2023-24	-	-			
7	Basics of Microbiology	Minor	2023-24		-		The harmful and beneficial activities of bacteria.	
8	Basics of Cell biology	Minor	2023-24	-	-		-	
9	Scope of Biotechnology -I	OEC	2023-24	-			Environmental Impact on Biotechnology	
10	Scope of Biotechnology -II	OEC	2023-24	-	principles of health biotechnology		Plant tissue culture and its applications	
11	Immunology	OEC	2023-24	-	-		-	
12	Techniques in rDNA technology	OEC	2023-24	-	-			Scope of r-DNA technology in well being of human society
13	Basic Instrumentation in Biotechnology	SEC	2023-24	Basic techniques are like centrifugation, microscopy, spectroscopy are included to understand the basic concepts of Biotechnology	-	-	-	-

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