

## MUGBERIA GANGADHAR MAHAVIDYALAYA

P.O.—BHUPATINAGAR, Dist.—PURBA MEDINIPUR, PIN.—721425, WEST BENGAL, INDIA NAAC Re-Accredited B Level Govt. aided College CPE (Under UGC XII Plan) & NCTE Approved Institutions DBT Star College Scheme Award Recipient E-mail : mugberia college@rediffmail.com // www.mugberiagangadharmahavidyalaya.org

Ref. No.—M.G.M. / / / From—The Principal / Secretary, Date.....

## Report

On

## **Induction Program 2023**

## **Organized by**

## **The Department of Mathematics (UG & PG)**

## MugberiaGangadharMahavidyalaya

## Date: 27 July 2023

# <u>https://twitter.com/Swapank26545954/status/1685872529939058688?</u> t=9lm8Zbrc7FSlJ5HNrzSRBQ&s=08

<u>https://twitter.com/Swapank26545954/status/1685871897010221056?</u> t=D8XklPAx0-KXk0DVNGVhkQ&s=08

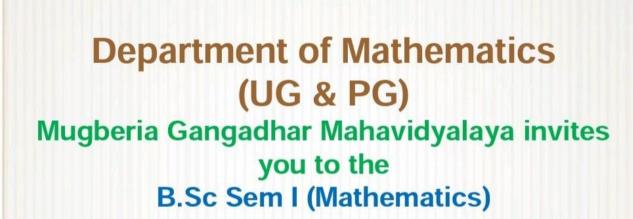
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## NOTICE

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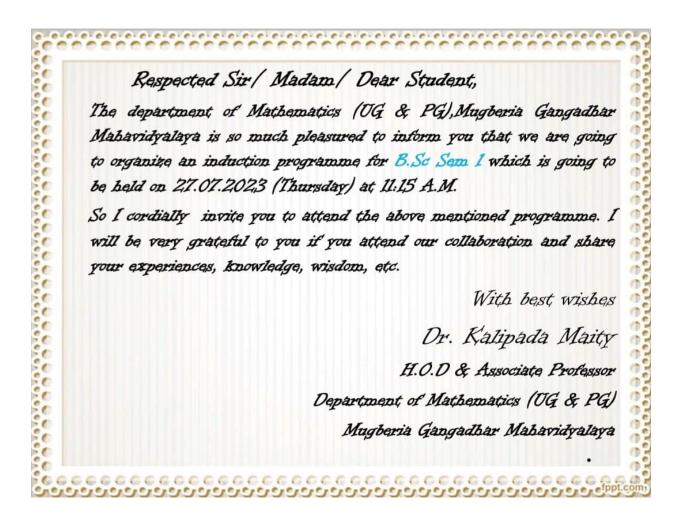
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## **Induction Programme 2023**

Organized by: Department of Mathematics Time 11.15AM Date 27 July 2023

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The following is the list of personalities to be present in the program :

• Dr. Swapan Kumar Mishra Principal, Mugberia Gangadhar Mahavidyalaya

Dept. Teaching Faculty:

- Dr. Kalipada Maity, HOD & Associate Professor, Dept. of Mathematics (UG & PG)
- Dr. Manoranjan De, Assistant Professor, Dept. of Mathematics
- Mr. Suman Kumar Giri, SACT, Dept. of Mathematics
- Mr. Debraj Manna, SACT, Dept. of Mathematics
- Mr. Hiranmoy Manna, SACT, Dept. of Mathematics

- Mr. Bikas Panda, SACT, Dept. of Mathematics
- Mr. Goutam Mondal, Contractual Assistant Professor, Dept. of Mathematics
- Mr. SantuHati, Contractual Assistant Professor, Dept. of Mathematics
- Mr. SubhamMaity, Contractual Assistant Professor, Dept. of Mathematics

## Student Union Member

• DurdantaGiri, General Secretary, student Union

## Students and parents

• All Departmental students (UG & PG) and parents of UG Sem-I students.

The Induction Program of Dept. of Mathematics was held on 27<sup>th</sup> July 2023 at 11.30 a.m to 2.30 p.m in UG Sem-I class room of Dept. of Mathematics. In this program all the students of UG & PGof Mathematics department were participated. In this program Dr. Swapan Kumar Misra, Principal gave inaugural speech, and highlights all infrastructure like as our smart class room, library and various creative activity in our college. After thatDr. Kalipada Maity, HOD Dept. of Mathematics said about various activity of our department, Teaching method, Fourth year degree course, wall magazine, mathematical quiz competition, except it told that about how prepared various competitive exam such as NET, GATE, JAM, CTET etc. After that Dr. Manoranjan De, Assistant Professor told about various certificate course, and useful software which are available in our department also highlights how to improve our students to research oriented. And next Mr. Suman Giri, SAC Teacher told about our coursework, continuous assignment solve, and next all teacher highlights library, creative social work, and relation between how to concern mathematics related to any other subject etc.

After that all students of UG- semester-I had gone our college central library with our dept. teacher Dr. KalipadaMaity, Mr. GoutamMondal, Mr. SubhamMaity, and there our librarian Mr. Swapan Kumar Sasmal who help of our students seeing all books of Math Department, and also told how to search various book in our OPAC system.

# Signature of all participant

	Inductio	on Programm	e Kom /
	Mara: - De Day	Amont of Mat	PAGE NO.:
	Mugberia Grango	Shar Mahavia	lyalay PATE 27/07/23 Time-11:304.M. 164
SL.NO.	Full Signature of Stadout		
	and Teacher		-one
1.	Salgam Kumar Maity	8649892945	
2.	Swapan Kuman Mirro-	9002275816	
3.	Kalipad a Mailo	9434611359	Teacher, derof of realty.
4.	Monoranjan De	9382292498	Dept. & Math, MGM
5.	Debraj Manna	8145389558	M.G.M
6.	Suman Humas Prisi	9564067646	
7.	Hisannay Manna	702036975	
8.	Pikash Ponda	8745309713	
9.	Gigulam K. Mandal	8280262524	
10.	Sagar Maity	8597623517	Haripure )
11.	Satzan Kunar Maity	8649892945	Barabari
12	De babrerte Dollie	7364958116	ireri
13	Biswabrata Dharca	8509062129	Dhoupukurria
14.	Nibedita Maête.	8617312615	Kamal pur
15-	Swatnali Jana	8597231095	DeulPola
16.	Sasanka Par	7319356662	Knishnonador
17-	Diptimory Maily	7872176697	Boyenda
18.	Sorgozit Cas.	3883796739	Bhapatinager.
19.	Subhayan Korr	8250157158	Lakshi
20.	Saikat Jana	7872220480	Jorazoagar
21	Subhayon Kar Saikat Jana Boutzar Paliza	8653524389	Baligdies Ris
22.	Arim Bradhem.	62 94416525	Baha Lurpur.
23	Dipt: raani Shit	9635195945	Halud bare;
24.	Jmishna Maity	7810865496	Lakia
25.	pubnima pinda	9907686740	Khavan
26.	Amangsi Das	9091908879	Jarannagan
27.	Soungakanti Grunia	9735368138	Mugbenia
- 28.	Bhasker Maily	8688500 746	Mugberia
2:3.	Appliant what up	83 48 23 9768	Kultha Basulichan.
_ 30	Durdonto Gua	8001007763	G. 3
ઝા	Subham Maity	2373874066	Teacher, Dept. & Math
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	Toucher's Manuer		Teacher's Signature 27107 2023
			reacher sorgnature 27104/22

# Parents Feedback form

'arent 'arent   lame c 'ear/Sc	of Parent : <u>Mithue Das</u> - Email-ID : Mobile No: <u>915-315-38445</u> of program ward is pursuing : <u>Encluettors Programmere</u> <u>20</u> emester : <u>15t</u> Date : ion : For each item, indicate your opinion choosing a score from 1 to 5 v 1 being poor.				Parent Er Parent M Name of Year/Sen	Parent : <u>Mournila Milgo (Maity)</u> nail-ID :	20 27 with 5	23 .7.2	023 excelle	nt and
SL No.					Direction	1 being poor.			_	-
1.	Particulars Overall personality development of your ward	1 2	3 4	3	SL No.	Particulars	1	2 3	3 4	5
2.	Importance to practical classes			V	L	Overall personality development of your ward				V
3.				-	2	Importance to practical classes			V	
4.	Regular field/industry visits for practical learning	_		~	3.	Regular field/industry visits for practical learning				~
4.	Ambience of the College for effective delivery of academics			V	4.	Ambience of the College for effective delivery of academics			~	
6,	Infrastructure facilities in institution for learning (lecture Library/Computer labs etc.) Co-curricular activities in the institute			~	.5.	Infrastructure facilities in institution for learning (lecture Library/Computer labs etc.)				~
7.				-	6.	Co-curricular activities in the institute				~
	Skills enhancement programs in the curriculum for better result in placement activities			~	7.	Skills enhancement programs in the curriculum for better result in placement activities				
8.	Placement/career counseling activities in the institution			~	8.	Placement/career counseling activities in the institution				~
9.	Cultural activities in the institution			-	9.	Cultural activities in the institution				~
10.	Transparency in the examination and evaluation system of the institution			-	10.	Transparency in the examination and evaluation system of the institution	a			~
-de g	he said shot note on Feedback system can help any institution to strengthenin	ng the feed	back meel	banism.	We hope t	he said shot note on Feedback system can help any institution to strengthen	aing th	e feedb	ack me	chanism.
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Dept. of Mathematics (UG & PG)

Syllabus Planning & Distribution

## Academic session : 2023-24

## (Odd Semesters)

Course Duration: 14 Weeks

UG	Course	Course	Total	Total	Allotted	Allotted Topic	Weekly	Total
	Code	Name	Allotted	credit	Teacher	/Unit	Class	Class
			Marks		Name		Hour	Hours
					Dr. KalipadaMaity	Differential equations Unit-IV	2	28
SEM I	C1T	Calculus, Geometry & Differential	75 (CA-05 CIA-10	4	Debraj Manna &Hiranmay Manna	Differential Calculus (Unit-I)	1+1 =2	28
		Equations	End SEM -60)		Goutam Mandal	Integral Calculus (Unit-III)	2	28
					SumanGiri	Geometry (Unit-II)	3	42
	SEC	MATLAB	50		SantuHati	Unit-1	2	28
	Theory & 3 Practical	3	SubhamMaity	Unit-2	2	28		
	MDC	Introduction to IT	75	4	Dr. Manoranjan De	Units	2	28

					SumanGiri	Units	1	14
	GE1	Calculus, Geometry & Differential Equation	75 (CA-05 CIA-10 End SEM -60)	4	Debraj Manna	Units -1, 2, 4	5	70
	Minor- C1		75 (CA-05 CIA-10 End SEM	4	Goutam Mandal	Units	1	14
			-60)		SubhamMaity	Units	2	28
SEM	C5T	Theory of Real Functions &	75	6	Dr. KalipadaMaity	Metric Spaces	2	28
	· · ·	CIA-10 End SEM		Bikash Panda	Theory of Real Functions (Continuity)	3	42	
		Spaces End SEM -60)	-00)		Hiranmay Manna	Theory of Real Functions(Limit & Differentiability)	3	42
	C6T	Group Theory I	75 (CA-05 CIA-10	6	Debraj Manna	Units 2 & 3	3	42
		CIA-10 End SEM -60)		Goutam Mandal	Units 1, 4 &5	3	42	
	С7Т	Numerical Methods	55 (CA-05 CIA-10 End SEM -40)	4	Dr. Manoranjan De	Theory part of Numerical Methods	4	56
			20	2	SantuHati	Practical Part using MATLAB	2	28

	SEC I	Logic & Sets	50 (CA-05 CIA-05	2	Suman Kr. Giri	All Units	2	28
			End SEM -40)					
	Pure Pass C7 (DSC 1C)	Real Analysis	75 (CA-05 CIA-10 End SEM -60)	6	MD, DM, HM, BP	All Units	4	56
	Pure SEC I	Logic & Sets	50 (CA-05 CIA-05 End SEM -40)	2	Suman Kr. Giri	All Units	2	28
SEM V	Differential Equations & Applications	6	Suman Kr. Giri	Unit 4 (Dynamics)	3	42		
				SantuHati	Units 1,2,3	3	42	
	C12	Group Theory II	75 (CA-05 CIA-10	6	Hironmay Manna	Units-1, 3	3	42
			End SEM - 60		GoutamMondal	Units-2, 4	3	42
	DSE-1	Probability and Statistics	75 (CA-05	6	Debraj Manna	Unit 1,2,3	4	56
	DSE 2 Linear 75 6 Programming (CA-05 CIA-10 Brogramming CIA-10		Bikash Panda	Unit 4 (Statistics)	3	42		
		6	Dr. Manoranjan De	Unit 2,3	4	56		
			End SEM - 60		SubhamMaity	Unit 1	2	28

## (Even Semesters)

## Course Duration: 14 Weeks

UG	Course	Course	Total	Total	Allotted	Allotted	Weekly	Total
	Code	Name	Allotted	credit	Teacher	Торіс	Class	Class
			Marks		Name	/Unit	Hour	Hours
	СЗТ	Real Analysis	75 (CA-05 CIA-10 End SEM -60)	6	SantuHati	Unit 1,2	3	42
SEM					Dr. Manoranjan De	Unit 3,4	3	42
П								
			75 (CA-05		Suman Kr. Giri	Unit-1,2	3	42
	C4T	Differential Equation&	CIA-10 End SEM	6	GoutamMondal	Unit-3,	2	28
		vector Calculus	-60)		SubhamMaity	Unit-4	2	28
					Dr. KalipadaMaity	Unit-5	2	28
	GE2	Algebra	75 (CA-05 CIA-10	6	Debraj Manna	All Units	4	56
			End SEM -60)		Hironmay Manna		1	14

UG	Course	Course	Total	Total	Allotted	Allotted	Weekly	Total
	Code	Name	Allotted	credit	Teacher	Торіс	Class	Class
			Marks		Name	/Unit	Hour	Hours
		Riemann	75 (CA-05	6	Hironmay Manna	Unit- 2,4	4	56
	C8T	Integration and series of function	CIA-10 End SEM -60)		BikashPanda	Unit-3,	2	28
			-00)		SantuHati	Unit-1	2	28
			75 (CA-05					
SEM IV	С9Т	Multivariate Calculus	ČIA-10 End SEM -60)	6	DrManoranjan De	Unit-3	2	28
					GoutamMondal	Unit-4	5	70
	C10T	Ring Theory and Linear	75 (CA-05 CIA-10	6	Debraj Manna	Unit- 1,2,3,4	4	56
		Algebra - I	End SEM -60)					
	SEC-2	Graph Theory	50 (CA-05 CIA-05 End SEM -40)	2	Suman Kr Giri	All Unit	3	42
	GE-4							

UG	Course	Course	Total	Total	Allotted	Allotted	Weekly	Total
	Code	Name	Allotted	credit	Teacher	Topic	Class	Class
			Marks		Name	/Unit	Hour	Hours
					SubhamMaity	Unit-3,4,	2	24
			75					
		Metric Space	(CA-05	6	SantuHati	Unit- 5,6	2	24

	C13T	and Complex Analysis	CIA-10 End SEM -60)		BikashPonda	Unit-1,2	2	28
		Ring Theory	75 (CA-05 CIA-10		Debraj Manna	Unit-1	1	14
SEM VI	C14T	and Linear Algebra II	End SEM -60)	6	Hironmay Manna	Unit-2,3	2	28
	DSE-3	Mechanics	75 (CA-05 CIA-10	6	Debraj Manna	Unit-1,2	2	28
			End SEM -60)		Suman Kr. Giri	Unit-3	2	28
	DSE-4	Mathematical Modeling	50 (CA-05 CIA-05	6	Dr. KalipadaMaity	Unit- 1	1	14
			End SEM -40)		Dr. Manoranjan De	Unit-2	2	28

# MugberiaGangadharMahavidyalaya

# Dept of Mathematics (UG & PG)

(Odd Semester)

Course Duration: 14 Weeks

PG	Course Code	Course Name	Total Allotted	Total credit	Allotted Teacher	Allotted Topic	Weekly Class	Total Class
			Marks		Name	/Unit	Hour	Hours
	MTM- 101	Real Analysis	50	4	Hironmay Manna	All Units	4	56
SEM I	MTM- 102	Complex Analysis	50	4	Goutam Kr Mondal	All Units	4	56
	MTM- 103	Oridinary Differential Equations and	50		Dr. KalipadaMaity	Unit-I	2	42
		Special Functions		4	SantuHati	Unit-II	3	42
	MTM- 104	Advanced Programming in C and MATLAB	50	4	Dr. Manoranjan De	Unit - I	2	28
					SubhamMaity	Unit-II	2	28
	MTM- 105	Classical Mechanics and non linear	50	4	Bikash Panda	Units	4	56
		Dynamics			Dr. KalipadaMaity	Non- Linear Dynamics	1	14
	MTM- 106	Graph Theory	25	2	SumanGiri	All	2	28

MTM- 197	Lab1(Computational Methods : Using	25	2	SubhamMaity	All	2	28
107	MATLAB)						

PG	Course	Course	Total	Total	Allotted	Allotted	Weekly	Total
	Code	Name	Allotted	credit	Teacher	Topic /Unit	Class	Class
			Marks		Name		Hour	Hours
	MTM- 301	Partial Differential Equations and Generalized Functions	50	4	SantuHati	Units	4	56
SEM	MTM-	Transforms and Integral Equations	50	4	Hironmay Manna	Integral Equations	2	28
	302				GoutamMondal	FT & LT & WT	2	28
	MTM- 303	Stochastic Process &Regrassion	25	2	Dr. K. Maity	All	2	28
		Cryptography	25	2	SubhamMaity	All	3	42
	MTM- 304	CBCS(Bengali)	50	4	Dr. Goutam Barman Rajesh Khan	All	4	56
	MTM- 305A	Advanced Optimization	50	4	Dr. Manoranjan De	All	4	56

MTM- 306A	Operational Research Modelling -I	50	4	Dr. KalipadaMaity	Inventory + PERT CPM	2	28
				Bikash Panda	Replacement + Simulation	2	28

# MugberiaGangadharMahavidyalaya

# Dept of Mathematics (UG & PG)(Even semester)

PG	Course Code	Course Name	Total Allot ted Mark s	Total credit	Allotted Teacher Name	Allotte d Topic /Unit	Weekly Class Hour	Total Class Hours
	MTM- 201	Fluid Mechanics	50	4	SantuHati	All	4	56
	MTM- 202	Numerical Analysis	50	4	Dr. Kalipada Maity	All	4	56
	MTM- 203	Unit-1: Abstract Algebra	25	2	GoutamMo ndal	Unit -I	2	28
SEM		Unit-2: Linear Algebra	25	2	Bikash Panda	Unit-II	2	28
II	C-MTM- 204	Bengali	50	4	Dr. Pintu Ray Choudhuri&P ranabMahap atra	All	4	56
	MTM- 205	General theory of Continuum Mechanics	50	4	Suman Kr. Giri + SubhamMait Y	All	4	56
	MTM- 206	General Topology	25	2	Hironmay Manna	All	2	28

MTM- 297	Lab 2: (Language C Programming	25	2	Dr. Manoranjan	All	3	42
	with Numerical methods)			De			

PG	Course	Course	Total	Tot	Allotted	Allotte	Weekly	Total
	Code	Name	Allotte	al	Teacher	d	Class	Class
			d	cre	Name	Topic	Hour	Hours
			Marks	dit		/Unit		
	MTM- 401	Functional Analysis	50	4	Dr. Arpan Dhara	All	4	56
	402 Mathematics with applications		Unit -1	2	28			
		Magneto Hydro Dynamics	25	2	Goutam Mandal	Unit-2	2	28
SEM IV	MTM- 403	Soft Computing	25	2	Dr. Manoranjan De	Units	2	28
	MTM- 404 A	Non-Linear Optimization	25	2	Bikash Panda	Units	2	28
	MTM- 497	LAB : Optimization( using MATLAB & LINGO)	25	2	SubhamMaity	Units	2	28
	MTM- 405A	Operational 25 2 Dr. Research Modelling -II Y		Units	2	28		
	MTM- 498	LAB : OR(using	25	2	Bikash Panda	Units	2	28

	MATLAB & LINGO)						
MTM- 499A	LAB : Soft computing (using MATLAB)	25	2	Dr. Manoranjan De	All	2	28
MTM- 406	Dissertation Project Work	50	4	All Teachers	-	6	84

# A few moments of induction day 2023



**MUGBERIA** 

GANGADHAR

MAHAVIDYALAYA

10.15 - 11.15 11.15 - 12.15 12.15 - 1.15 01.15 - 02.15 | 02.15 - 03.15 | 03.15 - 04.15 04.15 - 05.15 2 3 4 5 6 7 1 AEC-1(ENG) MAMH(KM) MATH-SM CHMG-BS-Minor MAMG-DM-Minor Μ Ο MAMH(PG)BP MATH(PG)HM MATH(PG)SM MATH(PG)SH Ν D PHYG-GE3-TDD MATH-DM CHMG-RM-GE3T MAMH(BP) MATH-HM IIII A Y MATH(PG)HM MATH(PG)KM MATH(PG)SH MAMH(PG)BP GATE MATH-DM MATH-HM MAMH(BP) MATH-SM MAMH-SH MATH-MD **MAMG--Minor** MAMH-SH CHMG-Minor1P BS CHMG-Minor1P BS E VAC-1(ENVS) MLD LAB DSC-SM Т MATH(PG)SM MATH(PG)GM U MATH(PG)BP MATH(PG)HM lΕ

ROUTINE FOR SCIENCE 2023-2024

s			MAMH(KM)	MAMH( BP)	CHMG-RM-GE3T	MAMH-GM	MATH-MD	
D A			MATH(PG)MD	MATH(PG)KM	MATH(PG)HM	MAMH(PG)BP	MATH(PG)SM	
Y	v		MATH-HM	MAMH-SH	MAMH-GM	MAMH-MD	MAMH-SH JAM	
W	I		MAMH-SH LAB	MAMH-SG	CHMG-GE1P MM MAMG-DSC2A GM MAMG-DM-Minor			
D N			MATH(PG)GM	MATH(PG)HM	MATH(PG)MD	MATH(PG)SM	MATH(PG)SH LAB	
E S D A	111		MATH(PG)MD	MATH-DM C.B.C.S	MAMH-SH MATH(PG)SM	MATH-HM MATH(PG)SH	MATH-GM MATH(PG)MD GATE	
Y	v		MATH-HM	MATH-MD	MAMH-SG	MAMHDM	MAMH-SG JAM	
н	I	VAC-1(ENVS)	MAMH-SG		CHMG-Minor-MM MAMG-DM-Minor	MATH-HM		

U R			MATH(PG)KM	MATH(PG)MD	MATH(PG)HM		MATH(PG)GM	
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			MATH-HM	MATH-MD	DSC-SM	MAMH-SG	PHY-PAC-DD	
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D			MAMH(PG)DM	MATH(PG)KM	MATH(PG)GM	MATH(PG)MD	MATH(PG)SM	
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		ACC(ENG)	MATH-SM	MAMH-GM	CHMG-BS-Minor MAMG-Minor-SG	MAMH-SG		
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D			MATH-KM	MATH-MD	PHYG/ECOG GE3T	MAMH-GM	MAMH-SH	
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ľ				MATTI(F0)511				
			MAMH-SG	MAMH-BP	MATH-MD	MATH-SM		
	v					l		
						MAMGE1-DM-Minor		
S			•	1	MAMGE1-DM-Minor			

	I		MAMH-SG	MATH-KM		MLD	MAMH-GM
A T			MATH(PG)BP	MATHPG(SG)	MATH(PG)KM	MATH(PG)GM	
U	F			MAMH-BP			
R	II	1	MATH-DM	1	MATH-MD	MAMH-SG	
D A			MAMH(PG) GM	MATH(PG)SH		MATH(PG)KM GATE	
Y	v	 	MATH-MD	MAMH-DM	MAMH-SH	МАМН-ВР	

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# **VIDYASAGAR UNIVERSITY**

Paschim Midnapore, West Bengal



PROPOSED (DRAFT) SYLLABUS OF

# **COMMON COURSES UNDER CCFUP, 2023**

## FOR SEMESTER – I & II

Based on

Curriculum & Credit Framework for Undergraduate Programmes

## (CCFUP), 2023 & NEP-2020

## FOR ALL UNDERGRADUATE PROGRAMMES

(w.e.f. Academic Year 2023-2024)

VIDYASAGAR UNIVERSITY, PASCHIM MIDNAPORE, WEST BENGAL

## COMMON COURSES FOR UNDERGRADUATE PROGRAMMES (UNDER CCFUP, 2023)

SEM	Course Type	<b>Course Code</b>	Course Title	Credit	L-T-P	Marks		
						CA	ESE	TOTAL
			SEMESTER-I					
	AEC	AEC01	Communicative English -1	2	2-0-0	10	40	50
			Indian Constitution	3	3-0-0	10	40	50
			Social value and Ethics	3	3-0-0	10	40	50
1		<b>MDC-01</b>	Sports and fitness	3	3-0-0	10	40	50
-	MDC	(Any one to be	Basics of information technology (IT)	3	3-0-0	10	40	50
		chosen)	Basics of Accounting	3	3-0-0	10	40	50
			NGO & its Operations	3	3-0-0	10	40	50
			Business Organization	3	3-0-0	10	40	50
	VAC	VAC01	Environment Studies (ENVS)	4	2-0-2	50	50	100
			SEMESTER-II					
	AEC	AEC02	MIL-1 (Bengali / Hindi)	2	2-0-0	10	40	50
			Nation, Culture & India	3	3-0-0	10	40	50
			Gender Studies	3	3-0-0	10	40	50
		MDC02	Community nutrition and Public health	3	3-0-0	10	40	50
	MDC	(Any one to be	Physical and Cultural Geography of Bengal	3	3-0-0	10	40	50
TT		chosen)	Natural Resource Management	3	3-0-0	10	40	50
II			Digital Technologies	3	3-0-0	10	40	50
			Financial Literacy and Household Decision-Making	3	3-0-0	10	40	50
		VAC02	Human Rights	4	4-0-0	10	40	50
	VAC	(Any one to be	Yoga and Wellness	4	4-0-0	10	40	50
		chosen)	Disaster Management	4	4-0-0	10	40	50
	Summer	CS	Community Service (activities to be decided by the Colleges)	4	0-0-4	-	-	50
	Intern.							

## **Ability Enhancement Course (AEC)**

### Ability Enhancement Course (AEC) - 01

### AEC-1T: Communicative English-01

Credits 02 (Full Marks-50)

### **Course Contents:**

#### 1. Communication Skills

- a) Types and Models of Communication
- b) Verbal and Non-verbal Communication
- c) Barriers and Strategies
- d) Inter-personal Communication

### 2. Listening Skills:

a) Active and Passive Listening

### 3. Speaking Skills:

- a) Different forms of Speaking Formal/Informal
- b) Group Discussion
- c) English in Situations: Greeting & Leave Taking, Making & Granting/Refusing Requests, Queries & Giving Information/Direction, Describing objects/process, Narrating events &Commentary, Persuasion & Motivation, Complaints &Apologies, Expressing disapproval, Alerting & Warning

### 4. Reading Skills:

- a) Different types of Reading
- b) Comprehension

### **Suggested Readings:**

- 1. *A Textbook of English and Communication Skills*. Richa Mishra and Ratna Rao, New Delhi: Macmillan: 2019
- 2. *Many Coloured Glass.* Board of Editors, Department of English, Vidyasagar University, Delhi: Macmillan, 2013.
- 3. *Connect: Course in Communicative English*, Debashis Bandyopadhyay & Malathi Krishnan, Cambridge University Press, New Delhi, 2018.

### AEC-2T: MIL-01

Credits 02 (Full Marks-50)

Bengali - 1: বাংলা ভাষা - প্রসঙ্গ ও অনুবাদ

**Course Contents:** 

## বিভাগ -ক

বাংলা ভাষা - প্রসঙ্গ

- ১. ভাষাগরিকল্পনা
- ২. বাংলা বানানবিধি
- ৩. ধর্ম, পেশা, লিঙ্গ ভিক্তিক বাংলা সমাজভাষা
- বত্তমান আদর্শ কথ্য-বাংলার প্রকৃতি (ব্যকরণগত বৈশিষ্ট্য, শব্দভাণ্ডার)

## বিভাগ -থ

অনুবাদ

অনুবাদ (বাংলা থেকে ইংরেজি ও ইংরেজি থেকে বাংলা)

### **Suggested Readings:**

- 5. Sociolinguistics Pattern -William Lebov
- ۲. Sociolinguistic-R.H. Hudson
- ৩. ভাষা ও সমাজ-মৃণাল নাথ
- 8. সমাজভাষা বিজ্ঞান –রাজীব হুমায়ুন
- C. Theories of translation J. Williams

OR

#### AEC-2T: MIL-01

### HINDI- 1: हिन्दी व्याकरण और सम्प्रेषण

### **Course Contents:**

इकाई I: हिंदी व्याकरण—संज्ञा, सर्वनाम, विशेषण,वचन, क्रिया, अव्यय, उपसर्ग, प्रत्यय, संधि तथा समास। का परिचय। हिंदी की वर्ण-व्यवस्था : स्वर एवं व्यंजन, प्रकार, उच्चारण स्थान। इकाई II: हिंदी वाक्य रचना, वाक्य और उपवाक्य। वाक्य भेद। वाक्य का रूपांतर। इकाई III: संप्रेषण की अवधारणा और महत्व संप्रेषण के प्रकार, संप्रेषण माध्यम और तकनीक। इकाई IV: भाषा संप्रेषण के चरण: श्रवण, अभिव्यक्ति, वाचन तथा लेखन।

### सहायक ग्रंथ :

- 1. हिन्दी व्याकरण कमाताप्रसाद गुरु
- 2. हिन्दी शब्दानुशासन किशोरीदास वाजपेयी
- 3. हिन्दी व्याकरण –एन. सी. ई. आर. टी.
- 4. आधुनिक हिन्दी व्याकरण और रचना डॉ. वासुदेव नंदन प्रसाद
- 5. बेसिक हिन्दी बद्रीनाथ कपूर
- 6. हिन्दी मुहावरे श्री ब्रहमस्वरूप दिनकर शर्मा

# **Multidisciplinary Course (MDC)**

# Multidisciplinary Course (MDC)- 01

#### **MDC-01T: Indian Constitution**

#### Credits 03 (Full Marks-50)

#### **Course contents:**

**Unit-I:** Historical Background – Constituent Assembly of India – Philosophical Foundations Of The Indian Constitution – Preamble – Fundamental Rights – Directive Principles Of State Policy – Fundamental Duties – Citizenship – Constitutional Remedies For Citizens.

**Unit-II:** Union Government – Structures of the Union Government and Functions – President – Vice President – Prime Minister – Cabinet – Parliament – Lok Sabha – Composition and Powers - Rajya Sabha – Composition and Powers - Supreme Court of India – Judicial Review

**Unit-III:** State Government – Structure and Functions – Governor – Chief Minister – Cabinet – State Legislature – Judicial System in States – High Courts and other Subordinate Courts.

### **Suggested Readings:**

- 1. Durga Das Basu, "Introduction to the Constitution of India ", Prentice Hall of India, New Delhi.
- 2. R.C.Agarwal, (1997) "Indian Political System", S.Chand and Company, New Delhi.
- 3. Sharma, Brij Kishore, "Introduction to the Constitution of India", Prentice Hall of India, New Delhi

#### OR

#### MDC-01T: Social Value and Ethics

Credits 03 (Full Marks-50)

#### **Course contents:**

# Unit-I: Philosophy of Life and Individual Qualities

Human Life on Earth - Purpose of Life, Meaning and Philosophy of Life. The Law of Nature – Protecting Nature /Universe. Basic Culture - Thought Analysis - Regulating desire - Guarding against anger - To get rid of Anxiety – The Rewards of Blessing - Benevolence of Friendship - Love and Charity - Self – tranquility/Peace.

#### Unit-II: Social Values (Individual and Social Welfare)

Family - Peace in Family, Society, The Law of Life Brotherhood - The Pride of Womanhood – Five responsibilities/duties of Man : - a) to himself, b) to his family, c) to his environment, d) to his society, e) to the Universe in his lives, Thriftiness (Thrift)/Economics. Health - Education - Governance - People's Responsibility / duties of the community, World peace.

#### Unit-III: Mind Culture & Tending Personal Health

Mind Culture - Life and Mind - Bio - magnetism, Universal Magnetism (God –Realization and Self Realization) - Genetic Centre – Thought Action – Short term Memory – Expansiveness – Thought – Waves, Channelizing the Mind, Stages - Meditation, Spiritual Value. Structure of the body - the three forces of the body- life body relation, natural causes and unnatural causes for diseases, Methods in Curing diseases.

### Suggested Readings:

- 1. Value Education for Health, Happiness and Harmony, The World Community Service, Centre Vethathiri Publications (Unit 1 III).
- 2. Thirukkural with English Translation of Rev. Dr. G.U. Pope, Uma Publication, 156, Serfoji Nagar, Medical College Road, Thanjavur 613 004 (for Units I III).
- 3. R S Nagaarazan, Textbook on Professional Ethics And Human Values, New Age International Publishers, 2006 (for Units IV-V).
- 4. Bharatiya Dharmaneeti Edited by Amita Chatterjee, published by Jadavpur University; Dvitiya samskarana edition (2013)

#### OR

Credits 03 (Full Marks-50)

#### **MDC-01T: Sports and fitness**

#### **Course contents:**

#### **Unit -1: Introduction to Sports**

- 1. Concept of Play, Games and Sports..
- 1. Objectives and importance of Play, Games and Sports.
- 2. Fundamental movements of Sports in relation to joints.
- 3. Warming up and Limbering down
  - a) General warm up exercises
  - b) Specific warm up exercises

#### Unit-2: Health and Performance Related Physical Fitness

- 1. Meaning and Definition of Fitness and Physical Fitness
- 2. Components of Health and Performance Related Physical Fitness
- 3. Importance of Physical Fitness in present society
- 4. Assessment of Health and Performance Related Physical Fitness

#### **Unit-3: Rules & Regulations of the games:**

- a) Football,
- b) Handball,
- c) Volleyball,
- d) Basketball,
- e) Badminton,
- f) Table Tennis,

- g) Cricket,
- h) Kabaddi,
- i) Kho-kho.
- j) Basic Techniques and Tactics of these games.

# Suggested Readings:

- 1. Saha, A. K. Sarir Siksher Ritiniti, Rana Publishing House, Kalyani.
- 2. Bandopadhyay, K. Sarir Siksha Parichay, Classic Publishers, Kolkata.
- Atkins, J. R. (1872). The Book of Racquets. A Practical Guide to the Game and its History and to the different Courts in which it is played. London: Frederick Warne & Co. Lord Aberdare. The JT Faber Book of Tennis and Rackets. London: Quiller Press, 2001. ISBN 1-899163- 62-X.
- Shekar, K.C. (3 0 August 2008). "Volleyball: Skills and Techniques" Khel Sahitya Kendra 10: 8175244100.
- 5. Dearing Joel, (August 24, 2018) Volleyball Fundamentals (Sports Fundamentals), Human Kinetics; 2 edition, ISBN-10: 1492567299.
- 6. Ray Power. (May 1, 2014), "Making the Ball Roll: A Complete Guide to Youth Football for the Aspiring Soccer Coach", Bennion Kearny Limited, ISBN-10: 1909125520.

# OR

# MDC-01T: Basics of information technology (IT)

Credits 03 (Full Marks-50)

# **Course contents:**

# **Unit-I: Introduction to Computers**

Introduction, Definition, Characteristics of computer, Evolution of Computer, Block Diagram Of a computer, Generations of Computer, Classification Of Computers, Applications of Computer, Capabilities and limitations of computer.

# Unit-II: Basic Computer Organization:

Role of I/O devices in a computer system. Input Units: Keyboard, Terminals and its types. Pointing Devices, Scanners and its types, Voice Recognition Systems, Vision Input System, Touch Screen, Output Units: Monitors and its types. Printers: Impact Printers and its types. Non Impact Printers and its types, Plotters, types of plotters, Sound cards, Speakers.

# Unit-III: Software:

Software and its needs, Types of S/W. System Software: Operating System, Utility Programs Programming Language: Machine Language, Assembly Language, High Level Language their advantages & disadvantages. Application S/W and its types: Word Processing, Spread Sheets Presentation, Graphics, DBMS s/w.

Introduction, data storage hierarchy, Method of organizing data, File Types, File Organization, File Utilities.

#### **Suggested Readings:**

- 1. A. Goel, Computer Fundamentals, Pearson Education, 2010.
- 2. P. Aksoy, L. DeNardis, Introduction to Information Technology, Cengage Learning, 2006.

OR

3. P. K.Sinha, P. Sinha, Fundamentals of Computers, BPB Publishers, 2007.

#### **Course Contents:**

**MDC-01T: Basics of Accounting** 

#### **Unit-I: Introduction to Financial Accounting:**

Meaning, Importance and objectives of Accounting; Concepts and Convention of Accounting. Meaning, Users, Sources of accounting information; Some Basic Terms -Transaction, Account, Asset, Liability, Capital, Expenditure, Income, Revenue, Profit, Loss, Concept of revenue and capital transactions, Accounting Year, Financial Year; Features of recordable transactions and events; Recording of Transactions; Types of Accounts - Personal account, Real Account and Nominal Account; Golden Rules and American Approach of Accounting-Rules for Debit and Credit; Double Entry System, Accounting Equation, Process of accounting - Business transactions - Journal entries - Ledger posting, Trial Balance

#### **Unit-II: Accounting for Depreciation:**

Concept; Causes of Depreciation; Objectives of Providing Depreciation; Methods of providing depreciation: Fixed Instalment Method and Reducing Balance Method.

#### **Unit-III: Accounting for Joint Venture:**

Meaning and features; Distinction between Partnership and Joint Venture; Accounting Treatment of Joint venture

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#### **Unit-IV: Operating System:**

Functions, Measuring System Performance, Assemblers, Compilers and Interpreters. Batch Processing, Multiprogramming, Multi Tasking, Multiprocessing, Time Sharing, DOS, Windows, Unix/Linux.

#### **Unit-VI: Data Communication:**

Communication Process, Data Transmission speed, Communication Types (modes), Data Transmission Medias, Modem and its working, characteristics, Types of Networks, LAN Topologies, Computer Protocols, Concepts relating to networking.

# **Unit-VII: Business Data Processing:**

#### (Total lecture hours: 45)

#### (Lecture hours: 6)

# (Lecture hours: 8)

# Credits 03 (Full Marks-50)

#### (Lecture hours: 9)

#### Unit-IV: Single entry System of Book keeping and Conversion of Single Entry to Double Entry system of Book Keeping (Lecture hours: 5)

**Unit-V: Final accounts of Non-Profit Organizations:** (Lecture hours: 9) Meaning and Features of Non-Profit Organization; Preparation of Receipt and Payment Account; Income & Expenditure Account and Balance Sheet.

# **Unit-VI: Final Accounts of Sole Trading Concern:**

Preparation of Trading and Profit and Loss account and Balance sheet.

#### Suggested Readings::

1. Mukherjee and Mukherjee, Financial Accounting, Vol. I, Oxford University Press

2. Hanif & Mukherjee, Financial Accounting Vol. I, McGraw Hill

3. Sukla, Grewal, Gupta: Advanced Accountancy Vol. I, S Chand

4. R. L.Gupta & Radheswamy, Advanced Accountancy, Vol. I, S. Chand

5. Basu and Das, Principles and Practices of Accounting, Rabindra library, Kolkata.

6. S.Kr. Paul & Chandrani Paul, Financial Accounting, Vol-I, New Central Book Agency (P) Ltd., Kolkata

#### OR

#### **MDC-01T: NGO & its Operations**

#### **Course contents:**

#### **Unit 1: Introduction: Concept and Functions of NGOs**

1.1 Concept of NGOs:

Definition and meaning of NGOs, Historical evolution of NGOs, Role and significance of NGOs in society

1.2 Functions of NGOs:

Social welfare and development activities, Advocacy and awareness campaigns, Empowerment and capacity-building initiatives

#### **Unit 2: Types and Characteristics of NGOs**

2.1 Types of NGOs: Charitable NGOs, Service NGOs, Advocacy NGOs, Operational NGOs, Networking NGOs International NGOs (INGOs), Community-Based Organizations (CBOs) 2.2 NGO Characteristics: Non-profit nature, Voluntary participation, Private initiative, Independence and autonomy, Social objectives 2.3 Strengths and Weaknesses of NGOs Advantages of NGOs in development work, Challenges and limitations faced by NGOs

(Lecture hours: 8)

Credits 03 (Full Marks-50)

#### Unit 3: Strategic Planning and Leadership in NGOs

3.1 Planning and Leading a Team:

Importance of strategic planning in NGOs, Setting goals and objectives, Formulating action plans, Effective team leadership and management

3.2 Conflict Resolution:

Understanding conflicts in NGO settings, Conflict resolution techniques, Promoting harmonious work environments

#### **Unit 4: Issues Related to NGO Operations**

4.1 Concentration of Power, Staff, and Accountability:

Power dynamics within NGOs, Ensuring transparency and accountability, Staff management and motivation

4.2 Fundraising:

Importance of fundraising for NGO sustainability, Fundraising strategies and techniques, Ethical considerations in fundraising activities

#### **Unit 5: Funding Agencies and Schemes**

5.1 National Bank for Agriculture and Rural Development (NABARD):

Overview of NABARD and its role, funding opportunities for rural development projects 5.2 National Human Rights Commission (NHRC)

Understanding the role of NHRC in protecting human rights, Collaboration opportunities for NGOs

5.3 Schemes for NGOs under the Government of India:

Introduction to various government schemes and programs, Eligibility criteria and application procedures for NGO participation

# Suggested Readings:

- 1. Abebe, Desset., 2011, *Effects Of Regulatory Mechanisms On The Function Of Human Rights NGOs: Regulating The 'Right To Association'...To Foster Or To Tamper?* London: Lap Lambert Academic Publishing.
- 2. Alsop, Ruth., & Kurey, Bryan., 2005. *Local Organizations in Decentralized Development: Their Functions and Performance in India (Directions in Development)*, World Bank Publications.
- 3. Anita, Abraham. 2015. Formation and Management of NGOs (Non-Governmental Organizations), 4th ed, Universal LexisNexis.
- 4. Baur, Dorothea., 2011. NGOs as Legitimate Partners of Corporations: A Political Conceptualization: 36 (Issues in Business Ethics). India: Springer.
- 5. Baviskar, B.S., 2001, "NGOs and Civil Society in India" in *Sociological Bulletin*, Vol 50, No 1.
- 6. Chandra, Snehlata., 2003. *Guidelines for NGOs Management in India*, Kanishka Publishers Distributers.
- 7. Chandra, Snehlata., 2007, *Non-Governmental Organisations: Structure, Relevance and Function*, Kanishka Publishers.
- 8. Dobriyal, N.C., 2009. *NGOs and Government Organisation: Role, Duties and Function*. Sumit Enterprises.

Unit-I: Introduction: Business: Definition- Nature and Scope- Objectives of Business; Social

responsibility of Business; Classification of Business: Industry, Trade & Commerce and their functions; Different economic systems: Socialistic economy, Capitalistic Economy and Mixed Economy Lecture hours: 9

Unit -II: Forms of Business Organization: Sole Proprietorship, Partnership, Limited liability partnership, Joint Stock Company, One Person Company, Private limited Company: Features and economic significance. Lecture hours: 8

Unit-III: Business Combination and Concentration: Concept of Business Combination; Causes of combination; Types, advantages and disadvantages; Vertical and Horizontal Combination; Pool and Lecture hours: 10 Cartel.

Unit-IV: Business intermediaries: Meaning; Concept of wholesalers, retailers and distributors; Role and significance Lecture hours: 9

Unit -V: Administrative Organization in Business: Concept; Different types of Organisation Structure: Formal and Informal Organisation, Line and Staff organization; Centralisation and Decentralisation: Lecture hours: 9 Advantages and disadvantages.

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9. Elliot, C., 1987, "Some Aspect of Relations between the North and South in the NGO Practices", Annual Review of Anthropology 26:439-64.

- 10. Gangrade, K.D., & Sooryamoorthy, R., 2001, NGOs in India: A Cross- Sectional Study: 136 (Contributions in Sociology), Jaipur-New Delhi: Rawat Publication.
- 11. Goel, O.P., 2004. Strategic Management and Policy Issues of NGOs. India: Isha Books.
- 12. Kohli, A., & Sharma, S.R, 1997, Organisation of Social Welfare, New Delhi: Anmol Publication.
- 13. Kumar, R., & Goel, S.L., 2005. Administration and Management of NGOs: Text and Case Studies, Deep & Deep Publications.
- 14. Latha, Kakumani Lavanya., & Prabhakar, Kotte., 2011, "Non-Government Organizations: Problems & Remedies in India", in Serbia Journal of Management, Vol 6, Issue 1.
- 15. Lawani, B.T., 1999. Non-Government Organizations in Development, Jaipur: Rawat Publications.
- 16. Lewis, David. 2014. Non Governmental Organizations: Management and Development, London: Routledge.
- 17. Mohanty, Ranjita. 2002, "Civil Society and NGOs", in The Indian Journal of Political Science, Vol 63. No 2/3.
- 18. Palekar, S.A., 2012, "Role of NGOs in Policy- Making in India", in The Indian Journal of Political Science, Vol 73, No 1.

OR

**MDC-01T: Business Organisation** 

**Course contents:** 

# (Total lecture hours: 45)

# Credits 03 (Full Marks-50)

### Suggested readings

- 1. Bose, C.P., Business Organisation and Management.
- 2. Companies Act, 2013.
- 3. Maheshwari, K.L., Maheshwari, R.K. & Madhu Bhatia Vyavsayik Sanghtan.
- 4. Maheshwari, K.L., Maheshwari, R.K. & Ram Milan Business Organisation.
- 5. Padmakar Asthana Business Organisation.
- 6. Sekhri, Arun, Organisation, MUMBAI, Himalaya Publishing House, 2014.
- 7. Talloo, Thelman J., Business Organisational and Management, TMH, New Delhi.
- 8. Tulsian, P.C., Business Organisation, Pearson Education, New Delhi.
- 9. Vasishth, Neeru, Business Organisation, Taxmann, New Delhi.
- 10. Y.K. Bhushan Business Organisation.

#### MDC-02T: Nation, Culture and India

Credits 03 (Full Marks-50)

#### **Course contents:**

#### **Unit-I: Introducing India**

1. The Land of India: Geographical Setting; Physical and Natural Environment. The Names of our Country – Past and present: Jambudvipa, Sindhu (Indus), Inde, Hind, Hindustan, India, Bharat.

2. The Peopling of India from Pre-historic time with special reference to Indo-Aryans speaking people, the Persians, the Arabsetc., and their contribution to the making of Indian History and Culture. Nation and Nation-building in India.

3. Historical Background of India: Historical Background of India through the ages – Brief outline of Prehistoric, Protohistory, Iron Age and Mahajanapada. Brief history India'sFreedom Struggle with special reference to growth of Nationalism, Moderate and Extremist movements, Gandhian Movements.

#### Unit-II: Indian Literature, Culture, Tradition, and Practices:

1.Evolution of script and languages in India: Harappan Script, Brahmi Script and Devanagari Script. Sanskrit. Pali and Prakrit languages.

2. The Vedas – Vedic Culture and Society. Epics - the Ramayana and the Mahabharata, Puranas, Buddhist and Jain Literature. Outline of Sanskrit Literature, Telugu Literature, Kannada Literature, Malayalam Literature, Sangama Literature, Literature, Persian and Urdu, Hindi Literature.

3. Plural cultural traditions of India. Outline of religions in India – Hinduism, Buddhism, Jainism, Islam, Christian, Persian, Tribal.

#### **Unit-III: Cultural Heritage and Performing Arts:**

1.Indian Art and Architecture in Ancient time, Dance, Music, Theatre, Drama, Painting, Martial Arts Traditions, Fairs and Festivals, Indian Cinema, Folk and Tribal arts.

2. Indian Women in art, literature, freedom struggle.

3. Indian's Cultural Contribution to the World. Indian Medical Systems. History of Railways, Postal system, Currency and Banking System.

#### **Suggested Readings:**

- 1. L. Basham, ACultural History of India, Oxford UniversityPress,1997
- 2. L. Basham, A Wonder that was India, Rupa, NewDelhi, 1994
- 3. N. R. Ray, AnApproachtoIndianArt,Publication Bureau, Chandigarh,1974
- 4. Kanjiv Lochan: Medicines of Early India, Delhi
- 5. Hitendra Patel: Adhunik Bharat ka Aitihasik Yatharth
- 6. Nayanjot Lahiri, Marshalingthe Past: Ancient India and its Modern Histories, Permanent Black, 2012
- 7. R.C. Majumdar (ed.), History and Culture of Indian People (Relevant Volumes and Chapters),
- 8. Bhartiya Vidya Bhawan, Bombay.
- 9. S. C. Ghosh, HistoryofEducationinModernIndia, 1758-1986, OrientLongman, Hyderabad, 1995
- 10. Tirthankar Ray, TheEconomicHistoryofIndia1857-1947, OUP, 2006
- 11. VijayJoshiand I.M.D. Little, India'sEconomicReforms, 1991-2001, OUP, 1996

#### **MDC-02T: Gender Studies**

#### **Course contents:**

#### 1. Gender as a Social Construct

- 1.1 Gender, Sex, and Sexuality
- 1.2 Masculinity and Femininity

#### 2. Gender Discrimination and Stereotype:

- 2.1 Family
- 2.2 Workspace
- 3. Power and Resistance:
  - 3.1 Women's Movement in India

#### 4. Gender and Intersectionality:

- 4.1 Caste, Class, Race, Sexuality
- 4.2 Religion
- 4.3 Ability and Disability

#### 5. Gender-Based Violence

- 5.1 Sexual Harassments
- 5.2 Domestic Violence
- 5.3 Rape
- 5.4 Cyber Crime

#### **Suggested Readings:**

- 1. Ahuja, Ram., 1989. "Crime Against Women", in Lalita Parihar (ed.) *Journal of the Indian Law Institute*, Vol 31, No 1.
- 2. Ahuja, Ram., 2003. Violence Against Women. Delhi: Rawat Publications.
- 3. Banerjee, Supurna., & Ghosh, Nandini., 2018. *Caste and Gender in Contemporary India*, Taylor & Francis
- 4. Bhasin, Kamla., 1993. What is Patriarchy?, Kali for Women.
- 5. Geetha, V., 2006. Gender, Bhatkal & Sen.
- 6. Jackson, Stevi., & Scott, Sue., 2001, Gender: A Sociological Reader, London: Routledge.
- 7. Kandiyoti, Deniz., 1988, "Bargaining with Patriarchy." Gender and Society, vol. 2, no. 3.
- 8. Kumar, Radha., 1999, "From Chipko to sati: The Contemporary Indian Women's Movement", in Nivedita Menon (ed.) *Gender and Politics in India*, New Delhi: Oxford University Press.
- 9. Menon, Nivedita., 2012. Seeing like a Feminist, India: Penguin Zubaan.
- 10. Murthy, Laxmi., & Dasgupta, Rajashri., 2013. Our Pictures, Our Words A Visual Journey Through the Women's Movement, New Delhi: Zubaan Books.
- 11. Ortner, Sherry. 1974, "Is Female To Male As Nature Is To Culture?," in Michelle Zimbalist Rosaldo and Louise Lamphere (ed.) *Women, Culture and Society*. Stanford: Stanford University Press.
- 12. Rubin, Gayle. 2006. "Thinking Sex: Notes for a Radical Theory of Politics of Sexuality", in Peter Aggleton and Richard Parker (ed.) *Culture, Society and Sexuality. London:* Routledge.

- 13. Ryle, Robyn. 2011. *Questioning Gender: A Sociological Exploration*. Thousand Oaks, CA: Pine Forge Press.
- 14. Tharu, Susie. & Niranjana, Tejaswini., 1994, "Problems for a Contemporary Theory of Gender." *Social Scientist*, vol. 22, no. 3/4.
- 15. West, Candace., & Fenstermaker, Sarah., (ed.), 2002. *Doing Gender, Doing Difference: Inequality, Power and Institutional Change*, London: Routledge.
- 16. Wies, Jennifer R., & Haldane, Hillary J., (ed.), 2011, *Anthropology at the Front Lines of Gender-Based Violence*. Vanderbilt University Press.

### OR

#### MDC-02T: Community nutrition and Public health

Credits 03 (Full Marks-50)

#### **Course contents:**

#### Unit-I: Population, society, community and community health:

Definition and brief study of community, family, village and block. Definition, dimension and determinant of health, positive health, health situation in India. Population, society, community and community health concepts. Nutrition - Introduction. Relationship between health and nutrition. Food as source of nutrients, functions of food, definition of nutrition, nutrients & energy. Adequate, optimum & good nutrition. Malnutrition and under nutrition, over nutrition. Human nutrition- principle, interrelationship between nutrition, health & diseases. Visible symptoms of good health. Nutrition - fitness, athletics & sports.National nutritional policy - Aim, objectives, guidelines and thrust areas. PDS - Public distribution system.Meaning, nature and importance of nutrition education to the community, Training of workers in nutrition education programme.

#### **Unit-II: Food and Diet:**

Balanced diet. Diet Survey – Principles. Composition and nutritional value of common Indian food stuff - rice, wheat, pulses, egg, meat, fish and milk. Dietary fibres - role of fibers in human nutrition. Calorie requirement. Vitamins and minerals. Malnutrition and under nutrition.

Principles of formulation of balanced diets for growing child, adult man and woman, pregnant and lactating woman. Diet management of obese, diabetic, hypertensive person and athlete. Basic idea on PCM, marasmus, kwashiorkor and their prevention. Iron and iodine deficiency. Recommended dietary allowances, malnutrition and chronic energy, LBW, PEM, xerophthalmia, micronutrient disorders. Physiology of starvation and obesity. Food toxicity. Effect of processing on nutritive values of foods.

#### Unit-III: Epidemiology:

Epidemiology: Principle of Epidemiology and Epidemiological methods: Terms used in describing disease transmission and control. Morbidity and mortality indicators. Measurements of epidemiological indicators, Epidemiology study designs. Concepts. Public health and public health issues: Basic ideas. Etiology, epidemiology and prevention of malaria, dengue, filaria, hepatitis, AIDS, nutritional anemia, atherosclerotic disorders. Causes and management of thalassemia, gout, obesity, endemic goiter, dental carries.

#### **Unit-IV: Nutrition intervention Programmes:**

Objectives, operation of feeding programmes. ICDS, MDM, TINP, NNMS, IRDP, DWACRA. National organizations and their role in nutrition programmes - ICMR, NIN, NNMB, ICAR, CFTRI, NIPCCD. International organizations - FAO, WHO, UNICEF, UNESCO, World Bank.

#### **Unit-IV: Experiments approach:**

- 1. Survey on the status of dietary intake in the surrounding area through visits, etc.
- 2. Diet survey report of a family (as per ICMR specification). Each student has to submit a report on his/her own family. [Report should be as per ICMR specification. Report should be hand written].
- 3. A report (hand-written) on the basis of field survey from one of the followings:
  - (a) Physiological parameters of human (at least three parameters).
  - (b) Anthropometric measurements on human (at least three parameters).

4. Epidemiological data collection, epidemiologic methods and field survey for any outbreak or incidence of diseases. Observational (descriptive and analytical) and experimental studies.

5. Epidemiological approach and measurements - vital statistics (rates, ratios and proportions), measurements of health indicators.

#### **Suggested Readings:**

- 1. Essential Food and Nutrition. by M. Swaminathan. The Bangalore Printing & Publishing Co. Ltd.
- 2. Text Book of Preventive and Social Medicine, M.C. Gupta and B. K. Mahajan, Jaypee Brothers
- 3. Fundamentals of Biostatistics by V. B. Rastogi, Ane Books
- 4. Park's Text Book of Preventive and Social Medicine by K. Park, Banarsidas Bhanot Publishers.
- 5. Introduction to Clinical Nutrition by V. Sardesai, CRCPress.
- 6. Food Microbiology by W.C Frazierand D.C. Westhoff. Tata McGraw Hill Publisher.
- 7. Basics of Epidemiology Concepts made simple by Dr. Anil Mishra, Notion Press; 1st edition
- 8. Epidemiological Studies: A Practical Guide: Alan J. Silman, Gary J. Macfarlane, Tatiana Macfarlane. 3rd Edition. Oxford Academic Publication, Oxford University Press.
- 9. Modern Epidemiology by Timothy L. Lash, Wolters India Pvt ltd.
- 10. Epidemiology Concepts and Methods, by Oleckno W. A.CBS Publishers & Distributors
- 11. Basic Epidemiology by R Beaglehole, Aitbs Publishers

#### OR

#### MDC-02T: Physical and Cultural Geography of Bengal

Credits 03 (Full Marks-50)

#### **Course contents:**

- 1. Geographic location, Physiographic Divisions, Rivers, soils, climate and Natural hazards
- 2. Natural vegetation, wildlife, and Ecotourism
- 3. Demography, migration, Scheduled tribes.
- 4. Agriculture and fishing, Mining, Industrial development, Major cities,
- 5. Heritage and cultural diversity, and tourist places

#### **Suggested Readings:**

- 1. Dhara, M.K., Basu, S.K., Bandyopadhyay, R.K., Roy, B., Pal, A.K. (Eds.) 1999. Geology and Mineral Resources of the States of India, Part-1: West Bengal. Geological Survey of India Miscellaneous Publication.
- 2. Ghurey, G.S. 1963. The Scheduled Tribes of India, 1980 reprint, Transaction Books.
- 3. Johnson, B.L.C. (Ed) 2001. Geographical Dictionary of India, Vision Books.
- 4. Khullar, D.R. 2011. India: A Comprehensive Geography, Kalyani Publishers
- 5. Mandal, H., Mukherjee, S., Datta, A. 2002. India: An Illustrated Atlas of Tribal World, Anthropological Survey ofIndia.
- 6. Pathak, C.R. 2003. Spatial Structure and Processes of Development in India, Regional Science Association Kolkata.
- 7. Rudra, K 2018.Rivers of the Ganga-Brahmaputra-Meghna Delta: A Fluvial Account of Bengal, Springer Nature
- 8. Bose S.C 1968. Geography of West Bengal, National Book Trust, India, New Delhi,
- 9. Sharma, T.C. 2012. Economic Geography of India, Rawat Publications.
- 10. Singh, R.L. 1971. India: A Regional Geography, National Geographical Society of India.
- **11.** Spate, O.H.K., Learmonth, A.T.A. 1967. India and Pakistan: A General and Regional Geography, Methuen.

#### OR

#### **MDC-02T: Natural Resource Management**

Credits 03 (Full Marks-50)

#### **Course contents:**

**Unit-I: Natural resources:** Definition and types. Sustainable utilization approach of Natural Resources (economic, ecological and socio- cultural)

**Unit-II: Land:** Utilization (agricultural, pastoral, horticultural, silvicultural); Soil degradation and management.

**Unit-III: Water:** Fresh water (rivers, lakes, groundwater, aquifers, watershed); Marine; Estuarine; Wetlands; Threats and management strategies.

**Unit -IV: Forests:** Definition, Cover and its significance (with special reference to India); Major and minor Forest products; Depletion; Management.

Unit- V: Energy: Renewable and non-renewable sources of energy

**Unit- VI: Contemporary practices in resource management:** EIA, GIS, Participatory Resource Appraisal, Ecological Footprint with emphasis on carbon footprint, Resource Accounting; Waste management.

Unit- VII: National and international efforts in resource management and conservation

#### **Suggested Readings:**

- 1. Vasudevan, N. (2006). Essentials of Environmental Science. Narosa Publishing House, New Delhi.
- 2. Singh, J. S., Singh, S.P. and Gupta, S. (2006). Ecology, Environment and Resource Conservation. Anamaya Publications, New Delhi.
- 3. Rogers, P.P., Jalal, K.F. and Boyd, J.A. (2008). An Introduction to Sustainable Development. Prentice Hall of India Private Limited, New Delhi.

#### OR

#### MDC-02T: Digital Technologies

#### Credits 03 (Full Marks-50)

#### **Course contents:**

**Unit-I:** Introduction and Evolution of Digital systems, Role and significance of Digital Technology, Information & communication technology & tools, Computer system & it's working, Software and its types, Operating Systems: types and functions.

Communication systems: Principles, model & transmission media, Computer networks, Internet: concept and applications, WWW, Web Browsers, search engines, Messaging, e-mail, social networking.

**Unit- II:** Computer Based Information system: significance and types, e-Commerce & digital marketing: basic concepts, benefits & challenges.

Digital India & e-Governance: Initiatives, Infrastructure, Services and Empowerment.

Digital financial tools: Unified Payment Interface, Aadhaar enabled payment System, USSD, Credit/Debit Cards, e-Wallets, Internet banking, NEFT/RTGS and IMPS, Online Bill Payments and PoS, Cyber Security: Threats, Significance, Challenges, Precautions, safety Measures & Tools,

**Unit- III:** Emerging Technologies & their applications: Overview of Cloud Computing, Big Data, Internet of things, Virtual reality, Block chain, robotics, Artificial intelligence, 3D Printing, Future of digital technologies.

#### Suggested Readings:

- 1. Fundamentals of Computers by E Nalagurusamy, ata mcgraw Hill.
- 2. Data Commination and Networking by Behrouz A. Forouzan, Mcgraw Hill Education.
- 3. Emerging Technologies in Computing: Theory, Practice, and Advances, by P.Kumar, A omar, and R.Sharmila, 1<sup>st</sup> Edition, 2021.
- 4. Essentials of cloud computingby K. Chandrasekharan, CrC press, 2014.
- 5. Blockchanin: Blueprint for a new economy by M. Swan, O'Reilly Media, 2015
- 6. Introduction to Computers by Peter Norton, Tata McGraw Hill.

OR

MDC-02T: Financial Literacy and Household Decision-Making

### **Course Contents:**

Unit I: Introductory concepts: Concept of Income, Expenditure, Saving and Investment; Concept of financial planning and use of a financial diary; Household budgets; Household decision making: Purchase decisions – small and large, Investing, Retirement planning and Borrowing; Simple and compound interest; Interest and inflation; Consumer credit – The fallacy of 'zero interest loan'. (7 lectures)

**Unit II: Financial knowledge and awareness:** Bank deposits: savings account, current account, recurring deposits and fixed deposit; Small saving investment schemes; Corporate Fixed deposits; PF and PPF; NPS and other Pension products, Corporate financial instruments like equity share, debentures, etc.; Bond; Mutual fund; Tax-free bonds; RBI Floating rate bond; Gold bond; Digital wallets: benefits, types, features and uses; QR code. (9 lectures)

Unit III: Bank and financial inclusion: Concept of KYC; BSBDA and Jan Dhan account; Pradhan Mantri Jeevan Jyoti Bima Yojana and Pradhan Mantri Suraksha Bima Yojana; Financial inclusion and financial inclusion index; Mudra scheme; E-banking: NEFT and RTGS; Precautions in e-payments; Risks associated with digital payments; Role of RBI as the regulator. (8 lectures)

**Unit IV: Insurance:** Concept of insurance and risk avoidance; Basic terms in insurance – premium, sum assured, agent, commission, claim; Types of insurance: Life insurance, Accidental insurance, Fire insurance, Health insurance, Crop insurance, etc.: Personal health policies and Public health policies; Role of TPA; Insurance companies in India; IRDA.

#### (8 lectures)

Unit V: Investment in stock market: Investment and Speculation; A brief discussion on return and risk; Trading in shares; Dematerialization and Demat account; SEBI- Role and functions. (6 lectures)

**Unit VI: Rights and awareness of Consumers and Investors:** The principle of "Buyer be aware" – its exceptions; Consumer disputes: Role of Consumer Affairs Department; Consumer Protection Act and Consumer Courts; Investor right; Investor awareness and activism; Investor association; Investor grievances and redressal mechanism; Ombudsman. (7 lectures)

# Suggested readings

- 1. The Basics of Finance: Financial Tools for Non-Financial Managers: Bryan E Milling, iUniverse
- 2. Smart Guide to Managing Personal Finance: <u>Alfred Glossbrenner</u> and <u>Emily Glossbrenner</u>, John Wiley
- 3. Total Money Makeover: Dave Ramsey, Thomas Nelson
- 4. Stock exchanges, Investments and Derivatives: P. Rajib and V. Raghunathan, TMH
- 5. Investing in India A Value Investor's Guide: Rahul Saraogi, Wiley

- 6. Financial Inclusion in India: Policies & Programmes: N. Mani, New Century
- 7. Financial Education Series: Reserve Bank of India
- 8. Introduction to Financial Planning: Indian Institute of Banking & Finance, Taxmann
- 9. Risk Analysis, Insurance and Retirement Planning: Indian Institute of Banking & Finance, Taxmann
- 10. Financial Planning & Wealth Management: Concepts and Practice: Joydeep Sen, Shroff Publishers
- 11. Consumer Protection Act: R.K. Bangia, Allahabad Law Agency
- 12. Consumer Rights and Awareness: M. Nazer, Discovery Publishing
- 13. Financial Education Material: SEBI (e-content)
- 14. OECD/INFE Toolkit For Measuring Financial Literacy and Financial Inclusion: OECD (econtent)

# Value Added Course (VAC)

# Value Added Course (VAC)- 01

#### VAC-01: ENVS- Environmental Studies

#### **Course contents:**

#### Unit-I: Introduction to environmental studies

- Multidisciplinary nature of environmental studies:
- Scope and importance; Concept of sustainability and sustainable development.

#### **Unit-II: Ecosystems**

• What is an ecosystem? Structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs and ecological succession. Case studies of the following ecosystems: a) Forest ecosystem; b) Grassland ecosystem c) Desert ecosystem d) Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

#### **Unit-III: Natural Resources: Renewable and Non-renewable Resources** (8 lectures)

- Land resources and land use change; Land degradation, soil erosion and desertification;
- Deforestation: Causes and impacts due to mining, dam building on environment, forests, biodiversity and tribal populations. Joint forest management.
- Water: Use and over--exploitation of surface and ground water, floods, droughts, conflicts over water (international & interstate).
- Energy resources: Renewable and non renewable energy sources, use of alternate energy sources, growing energy needs, case studies.

#### **Unit-IV: Biodiversity and Conservation**

- Levels of biological diversity: genetic, species and ecosystem diversity; Biogeographic zones of India; Biodiversity patterns and global biodiversity hot spots
- India as a mega---biodiversity nation; Endangered and endemic species of India
- Threats to biodiversity: Habitat loss, poaching of wildlife, man--wildlife conflicts, biological invasions; Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.
- Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and Informational value.

#### **Unit-V: Environmental Pollution**

- Environmental pollution: types, causes, effects and controls; Air, water, soil and • noise pollution
- Nuclear hazards and human health risks
- Solid waste management: Control measures of urban and industrial waste. •
- Pollution case studies.
- Noise pollution.

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# (8 lectures)

(8 lectures)

(6 lectures)

(2 lectures)

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# **Unit-VI: Environmental Policies & Practices**

- Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture
- Environment Laws: Environment Protection Act; Air (Prevention & Control of Pollution) Act; Water (Prevention and control of Pollution) Act; Wildlife Protection Act; Forest Conservation Act. International agreements: Montreal and Kyoto protocols and Convention on Biological Diversity (CBD).
- Nature reserves, tribal populations and rights, and human wildlife conflicts in Indian context.
- Environmental policy and gender issues

# Unit-VII: Human Communities and the Environment

- Human population growth: Impacts on environment, human health and welfare.
- Resettlement and rehabilitation of project affected persons; case studies.
- Disaster management: floods, earthquake, cyclones and landslides.
- Environmental movements: Chipko, Silent valley, Bishnois of Rajasthan.
- Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.
- Environmental communication and public awareness, case studies (e.g. CNG vehicles in Delhi)

# Unit-VIII: Field work

- Visit to an area to document environmental assets: river/ forest/ flora/fauna, etc.
- Visit to a local polluted site--Urban/Rural/Industrial/Agricultural.
- Study of common plants, insects, birds and basic principles of identification.
- Study of simple ecosystems--pond, river, Delhi Ridge, etc.
- Disaster management.
- Coastal ecosystem

# Suggested Readings:

- i. Carson, R. 2002. Silent Spring. Houghton Mifflin Harcourt.
- ii. Gadgil, M., & Guha, R. 1993. *This Fissured Land:An Ecological History of India*. Univ. of California Press.
- iii. Gleeson, B. and Low, N. (eds.) 1999. *Global Ethics and Environment*, London, Routledge.
- iv. Gleick, P. H. 1993. *Water in Crisis*. Pacific Institute for Studies in Dev., Environment & Security. Stockholm Env. Institute, Oxford Univ. Press.
- v. Groom, Martha J., Gary K. Meffe, and Carl Ronald Carroll. *Principles of Conservation Biology*. Sunderland: Sinauer Associates, 2006.
- vi. Grumbine, R. Edward, and Pandit, M.K. 2013. Threats from India's Himalaya dams. *Science*, 339: 36--37.
- vii. McCully, P. 1996. Rivers no more: the environmental effects of dams (pp. 29---64). Zed Books.
- viii. McNeill, John R. 2000. Something New Under the Sun: An Environmental History of the Twentieth Century.
- ix. Odum, E.P., Odum, H.T. & Andrews, J. 1971. Fundamentals of Ecology. Philadelphia: Saunders.
- x. Pepper, I.L., Gerba, C.P. & Brusseau, M.L. 2011. Environmental and Pollution Science. Academic Press
- xi. Rao, M.N. & Datta, A.K. 1987. Waste Water Treatment. Oxford and IBH Publishing Co.Pvt. Ltd.
- xii. Raven, P.H., Hassenzahl, D.M. & Berg, L.R. 2012. Environment. 8th edition. John Wiley& Sons.

(6 lectures)

#### (Equal to 5 lectures)

#### (7 lectures)

- xiii. Rosencranz, A., Divan, S., & Noble, M. L. 2001. Environmental law and policy in India. Tripathi 1992.
- xiv. Sengupta, R. 2003. Ecology and economics: An approach to sustainable development.OUP.
- xv. Singh, J.S., Singh, S.P. and Gupta, S.R. 2014. Ecology, Environmental Science and
- xvi. Conservation. S. Chand Publishing, New Delhi.
- xvii. Sodhi, N.S., Gibson, L. & Raven, P.H. (eds). 2013. Conservation Biology: Voices from the Tropics. John Wiley & Sons.
- xviii. Thapar, V. 1998. Land of the Tiger: A Natural History of the Indian Subcontinent. Warren, C. E. 1971. Biology and Water Pollution Control. WB Saunders.
- xix. Wilson, E. O. 2006. The Creation: An appeal to save life on earth. New York: Norton.
- xx. World Commission on Environment and Development. 1987. Our Common Future. Oxford University Press.

### Value Added Course (VAC) - 02

#### VAC-02: Human Rights

Credits 04 (Full Marks-50)

**Course contents:** 

Unit -1: Human Rights: Society and Development-Human Rights in the World

Unit- 2: Human Rights in India: Civil and Political Rights - Human Rights Commissions

Unit -3: Violation of Rights: Violation of Human Rights and Remedies -Violation of Economic, Social and Cultural Rights

#### Unit - 4: Rights of the Juveniles& Elderly People

- a) Rights of the Juveniles and Child Labour and Old People,
- b) Protection of Rights to Health,
- c) Human Rights and the Civil Society

#### **Suggested Readings**

- 1. Agarwal, H.O., Implementation of Human Rights Covenants with Special Reference to India (Allahabad: Kitab Mahal, 1983).
- 2. Alam, Aftab, ed., Human Rights in India: Issues and Challenges (New Delhi: Raj Publications, 1999).
- 3. Amnesty International, Human Rights in India (New Delhi: Sage Publications, 1994).
- 4. Bajwa, G.S. and D.K. Bajwa, Human Rights in India: Implementation and Violations (New Delhi: D.K. Publishers, 1996).
- 5. Basu, D.D., Human Rights in Constitutional Law (New Delhi: Prentice Hall, 1994).
- 6. Baxi, Upendra, Inhuman Wrongs and Human Rights (Delhi: HarAnand Publications, 1994).
- 7. Begum, S.M., ed., Human Rights in India: Issues and Perspectives (New Delhi: APH Publishing Co., 2000).
- 8. Bhagwati, P.N., Legal Aid as Human Rights (Dharwad: JagrutBharut, 1985).
- 9. Bhargava, G.S. and R.M.Pal, ed., Human Rights of Dalits: Societal Violation (New Delhi: Gyan Publishing House, 2000).

#### OR

#### VIDYASAGAR UNIVERSITY, PASCHIM MIDNAPORE, WEST BENGAL

### VAC-02: Yoga and Wellness

#### **Course contents:**

### Unit -I: Introduction of Yoga

- 1.1 Meaning, Definition, Aim, Objectives and Importance of Yoga
- 1.2 History and Development of Yoga
- 1.3 Astanga Yoga, Hatha Yoga, Observation of International Yoga Day
- 1.4 Suryanamaskar, Pranayamas and Meditations.

### Unit -II: Health and Health Problems in India

- 2.1 Health: Meaning, Definition, Dimensions and Factors.
- 2.2 Health Education: Meaning, Definition, Aim, Objectives and Principles. Personal Hygiene: Care of Eyes, Ear, Nose, Skin, Mouth, Teeth and Feet.
- 2.3 Aim, Objectives and Functions of Health Agencies: World Health Organization (WHO), United Nations Educational Scientific & Cultural Organization (UNESCO), United Nations International Children's Emergency Fund (UNICEF). Integrated Child Development Services (ICDS), Ministry of Health and Family Welfare (MHFW).
- 2.4 Life Style Diseases (Hypokinetic): obesity and Diabetes. Life Style Diseases (Hyperkinetic): Hypertension and Psychological Disorder-Stress.

### Unit -III: Wellness and Wellness Programme

- 3.1 Wellness Concept, Definition, Components, Significance with reference to Positive Lifestyle.
- 3.2 Concepts of Quality of Life and Body Image.
- 3.3 Factors affecting Wellness.
- 3.4 Wellness Programme in Reference to Physical Activities & Yoga

# **Suggested Readings**

- 1. Corbin, C. B. G. J. Welk. W. R Corbin, K. A. Welk (2006) Concepts of Physical Fitness: for Wellness. McGraw Hill, New York, USA.
- 2. Kamlesh, M. L. & Singh, M. K. (2006) Physical Education (Naveen Publications).
- 3. Kansal, D.K. (2008) Textbook of Applied Measurement, Evaluation & Sports Selection. Sports & Spiritual Science Publications, New Delhi.
- 4. Uppal, A.K. (2004), Fitness and Health 5th ed. (U.K., Human Kinetics).
- 5. Sharma Jai Prakash And Sehgal Madhu(2006). Yog-Shiksha. Friends Publication. Delhi.
- 6. Mukerji, A.P. (2010). The Doctorine and Practice of Yoga, General Books, LLC, New Delhi.
- 7. Sarin N (2003). Yoga Dawara Rogoon Ka Upchhar. Khel Sahitya Kendra.
- 8. Text Book Hath Yoga Pradipika.
- 9. Text Book Patanjali Yoga Sutra.
- 10. Kayal, R. Yoga Sikha. Clasique Books. Kolkata.
- 11. Sahu, D. A Critical review on Modern Trend of Yogic Asana. Clasique Books. Kolkata.

# OR

# VIDYASAGAR UNIVERSITY, PASCHIM MIDNAPORE, WEST BENGAL

#### VAC-02: Disaster Management

**Course contents:** 

#### **Unit -1: Introduction to Disaster: Disaster:**

- Concepts and definitions (Disaster, Hazards, Vulnerability, Resilience, Risks).
- Factors & significance, causes, nature, types and magnitude of disasters.
- Parameters of Disaster Risks. Levels of disasters as per national guideline.
- Difference between accidents and Disasters.
- Simple and Complex disasters,
- Brief explanation of some frequently occurring natural disasters in India.

#### Unit -2: Impacts of disasters:

Impacts of disasters (including social, economic, political, environmental, health, psychosocial, etc.). Global trends in disasters: urban disasters, pandemics, complex emergencies, Climate change. Hazards, Response time, frequencies, forewarning, exposure time of different hazards. Common approaches to study natural and manmade hazards; vulnerability and disasters.

#### Unit -3: Disaster Management:

Aims of disaster management. Principles and component of disaster management. Dimension of natural and anthropogenic disaster.

#### Unit- 4: Consequences of disaster:

Causes and consequences of hazards-physical, economic, cultural. Repercussion of disasters and hazards, Economic damage. Loss of human and animal life. Destruction of Ecosystem.

#### **Unit -5: Global perspectives:**

• Natural disaster - Study of environmental impacts induced by human activity. Causes, impact, consequences, trends understanding of: Earthquake, volcanisms, cyclones, tsunami, floods, draughts and famines, landslides and avalanches, heat and cold waves.

• Man-made disasters: Biological disasters, chemical disasters, nuclear disasters, building fire, cold fire, forest fire, oil fire, air pollution, water pollution, deforestations, industrial pollution, road accidents, rail accidents, air accidents, sea accidents, oil slicks and spills, out- break of disease and epidemic, building collapse, rural and urban fire, war and conflicts, over exploitation of natural resources.

#### **Suggested Readings**

- 1. Disaster Management Guidelines, GOI-UND Disaster Risk Program (2009-2012)
- 2. Damon, P. Copola, (2006) Introduction to International Disaster Management, Butterworth Heineman.
- 3. Gupta A.K., Niar S.S and Chatterjee S. (2013) Disaster management and Risk Reduction, Role of Environmental Knowledge, Narosa Publishing House, Delhi.
- 4. Murthy D.B.N. (2012) Disaster Management, Deep and Deep Publication PVT. Ltd. New Delhi.
- 5. Modh S. (2010) Managing Natural Disasters, Mac Millan publishers India LTD.

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Dr. KalipadaMaity



# **HOD & Associate Professor**

# Principal

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Principal Mugberia Gangadhar Mahavidyalaya