মিটিং রেজল্যুশন বহি
MEETING RESOLUTION BOOK

মিটিং নং / Meeting No.	
তারিখ / Date	16/06/2023

উপস্থিত সভ্যগণের নাম
NAME OF MEMBERS PRESENT

স্থান / Place	Principal's chamber
সময় / Time	2.30 pm.

১। 1. 16/06/23
২। 2. Akul Rana
৩। 3. Dipak Shom
৪। 4. Pragna Paramita Mondal
৫। 5. Asis Bhattacharya,
৬। 6. Barun Rout
৭। 7. Nilanjana Bhattacharyya
৮। 8.
৯। 9.
১০। 10.
১১। 11.
১২। 12.
১৩। 13.
১৪। 14.
১৫। 15.
১৬। 16.
১৭। 17.
১৮। 18.
১৯। 19.
২০। 20.
২১। 21.

Estd.-1966

NARAJOLE RAJ COLLEGE
(NAAC Accredited B grade)
NARAJOLE: PASCHIM MEDINIPUR: PIN-721211

Estd.-1966

Notice

*Dated:*12.06.2023

Notice is hereby given that the first meeting of the newly formed academic committee will be held on June 16, 2023, Friday at 2.00 pm. in the Principal's Chamber to discuss the following agenda. Please, make it convenient to join the meeting.

Agenda:

1. Ongoing academic activities and space for improvement.
2. Miscellaneous, if any, with the permission of the chair

12/06/23
Signature of the Principal
Dr. Basudev Mandal

12/06/2023
Signature of the Convenor
Dr. Akul Rana

Copy forwarded for information and necessary action to:

1. Dr. Nilanjana Bhattacharyya-Member — Nilanjana Bhattacharyya 16.06.2023
2. Dr. Tapanendu Kamilya-Member — Tapanendu Kamilya
3. Dr. Uttam Kumar Kanp-Member
4. Prof. Pragna Paramita Mondal-Member — Pragna Paramita Mondal 16.06.2023
5. Dr. Dipak Shom -Member — Dipak Shom 16/06/2023
6. Prof. Asis Bhattacharyya-Member — Asis Bhattacharya 16/06/2023
7. Prof. Barun Rout-Member — Barun Rout 16/06/23
8. Sri Suvadip Samanta-Member

Proceedings of the meeting of the Academic Committee held on 16-06-2023 (Friday) at 2.00 pm

Venue: Principal's Chamber

The meeting was chaired by Dr. Basudev Mandal, the Principal of the College and Chairman of the Academic Committee. Detailed discussions took place on the agenda ongoing academic activities of the college and the following resolutions were adopted:

1. The Head of all academic departments will submit class allotted/ taken reports to the convenor of academic committee (from the coming Semester) and the committee suggests the Principal for betterment, if any, after analyzing the reports quarterly.

2. (i) The main framework of the academic routine will be done by Dr. T. Kamilya and thereafter the routine of arts department will be prepared by Prof. A. Bhattacharyya and Dr. D. Shom. The routine of science department will be prepared by Dr. A. Rana and Dr. U. Kanp.
   (ii) The Academic calendar will be prepared by Dr. U. K. Kanp.
   (iii) Dr. D. Shom will take care of the remedial classes.
   (iv) Online records of academic activities will be preserved by Prof. B. Rout.
   (v) University examination and internal evaluation as per academic calendar will conducted by the existing Examination Committee.

3. The Principal Dr. Basudev Mandal will meet all faculties of the academic department separately for the betterment of academic activities and a provisional schedule for this purpose is to be prepared by the convenor of the Academic Committee.

4. A detailed discussion regarding faculty exchange programme(FEP) with nearby colleges was discussed and resolved that an initiative for FEP will be taken by the concerned department and the matter be discussed in the forthcoming meeting with the departments.

As there was no further agenda for discussion, the meeting ended with a reciprocal vote of thanks to and from the Chair.

CONVENOR
(DR. AKUL RANA)

05/01/24
CHAIRMAN
(DR. BASUDEV MANDAL)

ROUTINE SCIENCE (JULY' 2023 – DECEMBER' 2023)

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
MON	I	H		BOT MJ, UKK, L1 CHEM MJ, XXX GEO SEC IB COM. L MATH MJ, AR, DEPT PHYS MJ, AP, GEN LAB ZOO MJ-PAM	BOT, MI, UKK, L1 CHEM MI, MS MATH MI, SJ, DEPT PHYS MI, TK, GEN LAB ZOO MI-PAM PHYSIO_HONS-MIN_TH_SKK	HONS-ENVS_TH	BOT MJ, SEC, SKD, L2 CHEM SEC1P, XXX GEO MJ SM1 GEO.L MATH SEC1T, SP	BOT MJ SEC, BH, L1 CHEM SEC1P, XXX GEO MJ IB GEO.L MATH SEC1P, SP	
		G	ZOO MJ-PAM MATH MJ, SJ, DEPT	BOT MJ, BH, L2 PHYSIO_PASS-MAJ-A_TH_SKK	BOT MI BH, L2 PHYS PASS MI, SH, DEPT ANNEX PHYSIO_PASS-MIN-C_TH_SKK	PASS-ENVS_TH	BOT, SEC, UKK, L1 PHYSIO_PASS-SEC-1_PRAC_SKK	BOT, SEC, SKD, L1 MATH SEC1P, AR	
	III	H	CHEM C5P, MS, IORG LAB GEO C7T MMM GEO.L ZOO_C6T_PD	BOT C5P SKD L3 CHEM C5P, MS, IORG LAB GEO C5T SM1 GEO.L MATH C6, SP, TR PHYS C5P, XXX, COMP LAB	BOT C5P SKD L3 CHEM C5T, BS, COMP LAB GEO C5T IB GEO. L MATH C7P, AR, COM. L PHYS C5P, XXX, COMP LAB	BOT C6T BH L2 CHEM C6T, BKM, ORG LAB GEO C6T SM2 S7 MATH C5, SJ, DEPT PHYS C6T, AP, DEPT ANNEX ZOO C5T-PAM	CHEM C7T, SB, IORG LAB GEO C5T IB S7 MATH C5, SJ, DEPT PHYS C7T, TK, DEPT ANNEX ZOO C5P-PAM	CHEM GE3P, MS, IORG LAB PHYS GE3P, AP, ELECTRIC LAB PHYSIO_GE-3P_SKK	CHEM GE3P, MS, IORG LAB PHYS GE3P, AP, ELECTRIC LAB PHYSIO_GE-3P_SKK
		G	PHYS DSC1CT, SH, ELECTRIC LAB						MATH DSC1C, SP, DEPT
	V	H		BOT DSE1T BH L3 CHEM DSE1P, SB, IORG LAB GEO DSE-2 MMM S7 MATH C11, SJ, F5 PHYS DSE1T, TK, ELECTRIC LAB ZOO DSE1T-BM	BOT DSE1T BH L2 CHEM DSE1P, SB, IORG LAB GEO DSE-1 SM2 S7 MATH C12, SP, S4 PHYS DSE2T, AP, ELECTRIC LAB ZOO DSE1P-BM	CHEM C12T, SB, IORG LAB GEO DSE-II MMM GEO.L MATHC12, SP, F.ANNEX PHYS C12T, TK, ELECTRIC LAB	BOT C12T BH L1 CHEM DSE1T, MS, F5 GEO C12P SM-2 COM.L MATH DSE1, AR, A2 PHYS DSE2T, SH, ELECTRIC LAB	BOT C12P UKK L2 CHEM C11P, BKM, IORG LAB GEO C12P SM-2 COM.L MATH C11, SJ, DEPT ZOO C11T-PAM	BOT C12P UKK L2 CHEM C11P, BKM, IORG LAB GEO C12T SM1 GEO.L ZOO C11P-PAM
		G							

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
TUE	I	H		BOT MJ, AC, L1 CHEM MJ TH/PRAC, SB GEO MJP SD GEO. L MATH MJ, SP PHYS MJ, AIM, GEN LAB ZOO MJ-RKK	BOT, MJ, PG, L1 CHEM MJ PRAC, SB GEO MJP SD GEO. L MATH MJ, SP ZOO MJ-RKK	AECC_ENGLISH	BOT MI, AC, L1 CHEM MI TH/PRAC, MS PHYS MI PRAC, AP, GEN LAB ZOO MI-RKK PHYSIO_HONS_MIN_TH_PD	BOT MI PG, L1 CHEM MI TH/PRAC, MS PHYS MI PRAC, AP, GEN LAB ZOO MI-RKK	
		G	MATH MJ, SRP, DEPT	BOT MJ, UKK, L2 MATH MJ, SJ ZOO MJ-PAM PHYSIO_PASS_MAJ-A_PRAC_PD	BOT MJ, NB, L2 ZOO MJ-PAM	AECC_ENGLISH	BOT, MI BH, L2 MATH MI, SJ PHYS PASS MI PRAC, SH, GEN LAB PHYSIO_PASS_MIN-C_TH_PD	BOT MI NB L2 PHYS PASS MI PRAC, SH, GEN LAB	
	III	H	GEO C7T SD GEO. L PHYS C6T, SD, DEPT ANNEX ZOO C7T-PC PHYSIO_GE-3T_PD	BOT C5T NB L3 CHEM C7T, SMA, IORG LAB GEO C5T IB S7 MATH C7T, SRP, F.ANNEX PHYS C5T, TK, DEPT ANNEX ZOO C7P-PC	BOT C7T AC L3 CHEM C6T, MS, IORG LAB GEO C6T SM2 S7 MATH C5, SJ, F.ANNEX PHYS C6T, AP, DEPT ANNEX ZOO_C6P_PD	BOT C7T PG L2 CHEM C5T, MS, ORG LAB MATH C6, SP, DEPT PHYS C7T, SH, DEPT ANNEX ZOO_C6P-PD	BOT GE3P NB L3 CHEM GE3T, XXX, ORG LAB PHYS GE3T, AIM, DEPT ANNEX ZOO GE3T-PC	BOT SEC3 BH L3 CHEM C6P, BKM, ORG LAB MATH C6, SP, DEPT PHYS C6P, SD, ELECTRIC LAB ZOO GE3P-PC	BOT SEC3 BH L3 CHEM C6P, BKM, ORG LAB MATH C7P, AR, COM. L PHYS C6P, SD, ELECTRIC LAB
		G	CHEM DSC3T, SB, IORG LAB	PHYS DSC1CT, SH, OPTIC LAB	BOT DSC2CT UKK L2	BOT SEC AC L3 CHEM DSC3P, SMA, CH L	CHEM DSC3P, SMA, CH L MATH SEC1, SP, COM. L	MATH DSC1C, SJ, DEPT	
	V	H		BOT C11P AC L3 CHEM C11T, BKM, COMP LAB MATH DSE1, AR, DEPT PHYS C11T, SD, ELECTRIC LAB	CHEM C12T, SMA, COMP LAB GEO C11P SM2 COM. L MATH DSE1, AR, DEPT PHYS DSE1T, AIM, ELECTRIC LAB ZOO DSE2T-PC	BOT DSE2T BH L1 CHEM DSE2T, SB, IORG LAB GEO DSE-1 SD GEO. L MATH C11, SJ, F5 PHYS DSE2T, AP, ELECTRIC LAB ZOO C12T-PAM	BOT C12T UKK L1 CHEM C12P, SB, IORG LAB GEO C11P SD GEO. L MATH DSE2, SRP, DEPT PHYS C12P, TK, ELECTRIC LAB ZOO C12T-PAM	BOT C12T UKK L1 CHEM C12P, SB, IORG LAB GEO C11T IB GEO. L MATH DSE2, SRP, DEPT PHYS C12P, TK, ELECTRIC LAB ZOO C12P-PAM	BOT DSE2T PG L2 GEO DSE-II IB GEO. L PHYS DSE2T, SH, GEN LAB ZOO C12P-PAM
		G		BOT DSE2AT UKK L2			BOT DSE2AT PG L2	BOT DSE 1AT AC L2	

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
WED	I	H		BOT MJ, SKD, L1 CHEM MJ, SMA GEO MJP IB GEO. L MATH MJ, SP, DEPT PHYS MJ, AP, GEN LAB ZOO MJ-RKK	BOT, MI, SKD, L1 CHEM MI, MS PHYS MI, AP, GEN LAB ZOO MI-RKK PHYSIO_HONS_MIN _TH_PD	HONS_MDC_TH	HONS-ENVS_TH	GEO SECP IB COM. L PHYS SEC1 PRAC, AP, COMP LAB ZOO SEC1P-RKK	PHYS SEC1 PRAC, AP, COMP LAB
		G	MATH MJ, SP, DEPT	BOT MJ, NB, L2 PHYSIO_PASS_MAJ- A_TH_PD	BOT MI, NB, L2 PHYS PASS MI, XXX, ELECTRO LAB PHYSIO_PASS_MIN- C_TH_PD	PASS_MDC_TH	PASS-ENVS_TH		
	III	H		BOT C7P AC L3 CHEM C5T, MS, IORG LAB GEO SEC-1SD S7 MATH C7T, SRP,DEPT PHYS C5T, AIM, ELECTRIC LAB	BOT C7T AC L3 CHEM C6T, SMA, IORG LAB GEO C6T IB GEO.L MATH C6, SP, F.ANNEX PHYS C7T, XXX, DEPT ANNEX	BOT C6T PG L2 CHEM C7T, SMA, IORG LAB GEO C6P IB GEO. L MATH C6, SP, TR PHYS C6T, SD, DEPT ANNEX ZOO C5T-RKK	BOT C7P NB L3 CHEM GE3T, SMA, CH LAB PHYS GE3T, SD, ELECTRIC LAB ZOO C5P-RKK PHYSIO_GE-3T_PD	BOT C7P NB L3 CHEM C7P, SMA, IORG LAB MATH C7T, SRP, DEPT PHYS C7P, XXX, ELECTRO LAB	CHEM C7P, SMA, IORG LAB MATH C7T, SRP, DEPT PHYS C7P, XXX, ELECTRO LAB ZOO GE3P-PC
		G		PHYS DSC1CP, SD, OPTIC LAB	MATH DSC1C, SRP, COM.L PHYS DSC1CP, SD, OPTIC LAB	BOT SEC 1T NB L3 CHEM DSC3T, XXX, IORG LAB	BOT DSC2CT AC L1	BOT DSC2CP AC L2	BOT SEC BH L1 PHYS DSC1CT, SD, ELECTRIC LAB
	V	H	CHEM DSE2P, SB, ORG LAB GEO DSE-1 SM2 GEO. L	BOT C12P BH L2 CHEM DSE2P, SB, ORG LAB GEO C11P SM2 COM. L ZOO DSE2T-PC	BOT C12P BH L2 CHEM C11T, XXX, COMP LAB GEO C11P SD COM. L PHYS C11T, AIM, ELECTRIC LAB ZOO DSE2T-PC	BOT C11T AC L1 CHEM DSE1T, MS, ORG LAB GEO DSE-1 SM2 S7 MATH DSE2, SRP, F.ANNEX PHYS DSE2T, AP, ELECTRIC LAB ZOO DSE2P-PC	BOT C12T SKD L1 CHEM DSE2T, SB, ORG LAB GEO C12T IB S7 MATH DSE2, SRP, DEPT PHYS C11P, AIM, COMP LAB ZOO DSE2P-PC	BOT DSE2P PG L1 CHEM C11P, MS, IORG LAB MATH C12, SP, DEPT PHYS C11P, AIM, COMP LAB ZOO DSE2P-PC	BOT DSE2P PG L2 CHEM C11P, MS, IORG LAB
		G		BOT DSE2AT PG L2		BOT SEC-3T BH L1	BOT DSE2AT PG L2		

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
THURS	I	H	PHYS MJ, AIM, GEN LAB	BOT MJ, BH, L1 CHEM MJ TH/PRAC, SMA MATH MJ, SRP ZOO MJ-RKK	BOT, MJ, NB, L1 CHEM MJ PRAC, BKM GEO MJ SD S7 MATH MJ, SJ ZOO MJ-RKK	BOT, MI, BH, L1 CHEM MI TH/PRAC, BKM GEO MJ SD S7 PHYS MI, TK, GEN LAB PHYSIO_HONS_MIN _PRAC_PD	BOT MI, AC L1 CHEM MI PRAC, XXX ZOO MI-RKK	BOT MJ SEC, NB, L1 CHEM SEC1, BKM MATH SEC1, SJ PHYS SEC1 PRAC, AIM, COMP LAB ZOO SEC1P-RKK	PHYS SEC1 PRAC, AIM, COMP LAB
		G		BOT MJ, NB, L2 MATH MJ, AR PHYSIO_PASS_MAJ-A_TH_PD	BOT MJ BH, L2	BOT MI AC L2 PHYS PASS MI, XXX, DEPT ANNEX	BOT, MI PG L2 MATH MI, SRP PHYSIO_PASS_MIN-C _PRAC_PD	BOT MJ SEC AC, L2 PHYSIO_PASS_SEC-1 _TH_PD	MATH MJ, SJ, DEPT
	III	H	GEO C6T IB GEO. L ZOO C5T-PAM	BOT C5P PG L3 CHEM C5P, XXX, IORG LAB GEO C7T MMM GEO. L MATH C5, SJ, DEPT PHYS C5P, AIM, COMP LAB ZOO C5P-PAM	BOT C5P PG L3 CHEM C5P, XXX, IORG LAB GEO C6P MMM GEO. L MATH C7T, AR, F.ANNEX PHYS C5P, AIM, COMP LAB ZOO_C6T_PD	BOT C5T NB L2 CHEM C6T, XXX, IORG LAB GEO C6P MMM GEO. L MATH C7T, AR, F.ANNEX PHYS SEC1T, SH, ELECTRO LAB ZOO SEC2T-RKK	BOT C6P UKK L3 CHEM C7T, SMA, IORG LAB PHYS C7T, TK, DEPT ANNEX	BOT C6P UKK L3 BOT GE3P BH L 2 CHEM GE3P, XXX, IORG LAB PHYS GE3P, AP, ELECTRIC LAB ZOO GE3T-PAM PHYSO_GE-3P_PD	BOT GE3P BH L 2 CHEM GE3P, XXX, IORG LAB PHYS GE3P, AP, ELECTRIC LAB ZOO GE3P-PAM PHYSO_GE-3P_PD
		G	CHEM DSC3P, XXX, CH LAB	CHEM DSC3P, XXX, CH LAB		CHEM DSC3T, XXX MATH DSC1C, SJ, COM.L		MATH SEC1, SRP, COM.L	
	V	H	PHYS C12P, AP, ELECTRIC LAB	BOT DSE2P UKK L2 CHEM C11T, BKM, ORG LAB PHYS C12P, AP, ELECTRIC LAB	BOT DSE2P UKK L2 CHEM C12T, SMA, PHYS LAB GEO C11T IB S7 MATH DSE2, SRP, DEPT PHYS C12T, AP, ELECTRIC LAB ZOO C11T-PAM	BOT C11T PG L1 CHEM DSE1T, SMA, ORG LAB GEO DSE-1 SD S7 MATH DSE2, SRP, DEPT PHYS DSE1T, AIM, ELECTRIC LAB ZOO C11P-PAM	BOT DSE1T NB L1 CHEM DSE2T, BKM, ORG LAB GEO C11T SD GEO. L MATH C11, SJ, DEPT PHYS DSE2T, SH, ELECTRIC LAB ZOO C12T-PAM	BOT C11T PG L2 CHEM C12P, SMA, ORG LAB GEO DSE-2 MMM GEO. L MATH DSE1, AR, DEPT PHYS C12T, TK, ELECTRIC LAB	BOT C11T AC L1 CHEM C12P, SMA, ORG LAB
		G							

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
FRI	I	H		HONS_ENVS_PRAC	HONS_ENVS_PRAC	HONS_MDC_TH	AECC_ENGLISH	BOT MJ SEC, PG, L1 CHEM SEC1 PRAC, SMA GEO MJ SM1 GEO. L MATH SEC1, AR PHYS SEC1 PRAC, AIM, COMP LAB ZOO SEC1P-RKK	CHEM SEC1 PRAC, SMA PHYS SEC1 PRAC, AIM, COMP LAB
		G		PASS_ENVS_PRAC	PASS_ENVS_PRAC	PASS_MDC_TH	AECC_ENGLISH	BOT, SEC, SKD, L1 ZOO SEC1P-PC PHYSIO_PASS_SEC-1_TH_SKK	
	III	H	CHEM C7P, SMA, IORG LAB PHYS C6P, AP, ELECTRIC LAB	BOT GE3P NB L1 CHEM C7P, SMA, IORG LAB GEO C7T SD GEO. L MATH C6, SP, F.ANNEX PHYS C6P, AP, ELECTRIC LAB ZOO C7T-PAM	BOT C6P PG L1 CHEM SEC1T, SB, ORG LAB GEO C5T SM1 GEO. L MATH SEC1, SP, F.ANNEX PHYS C5T, AIM, GEN LAB ZOO C7P-PAM ZOO_C6T_PD	BOT SEC UKK L1 CHEM C5T, SB, IORG LAB GEO 5T SM1 GEO. L MATH C5, SJ, F.ANNEX PHYS SEC1T, XXX, GEN LAB ZOO_C6T_SKK	BOT C7T NB L1 BOT GE3T BH L3 CHEM GE3T, SMA, IORG LAB PHYS GE3T, XXX, GEN LAB PYSIO_GE-3T_PD	BOT GE3T BH L3 CHEM SEC1P, SB, IORG LAB MATH C5, SJ, DEPT ZOO GE3T-PAM	BOT C6T PG L3 CHEM SEC1P, SB, IORG LAB PHYS C5T, TK, ELECTRO LAB ZOO GE3P-PC
		G	PHYS DSC1CP, XXX, ELECTRIC LAB	BOT DSC2CT SKD L3 PHYS DSC1CP, XXX, ELECTRIC LAB	BOT DSC2CP SKD L3	BOT DSC2CP SKD L3	BOT SEC1T, SKD, L3 MATH SEC1, SJ, COM.L	MATH DSC1C, SP, COM.L	
	V	H		BOT DSE1P BH L2 CHEM C12T, SB, CH LAB GEO C12T IB S7 MATH DSE1, AR, DEPT PHYS C11T, AIM, GEN LAB ZOO C11T-RKK	BOT DSE1P BH L2 CHEM C11T, BKM, CH LAB GEO DSE-2 IB S7 MATH C11, SJ,F.ANNEX PHYS DSE1T, TK, ELECTRIC LAB ZOO C11P-RKK	BOT DSE1P NB L2 CHEM DSE2T, BKM, ORG LAB GEO DSE-2 IB S7 MATH DSE1, AR, DEPT PHYS C11P, AIM, COMP LAB ZOO C12T-PAM	GEO C12P SD COM. L CHEM DSE2P, BKM, ORG LAB MATH C12, SP,S2 PHYS C11P, AIM, COMP LAB ZOO C12P-PAM	BOT DSE1T NB L2 CHEM DSE2P, BKM, ORG LAB GEO C12P SD COM. L PHYS C12T, AP, GEN LAB	BOT DSE1T NB L2
		G					BOT DSE2AP PG L2		

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
SAT	I	H		HONS_ENVS_TH	HONS_MDC_TH				
		G		PASS_ENVS_TH	PASS_MDC_TH				
	III	H	CHEM C6P, BKM, ORG LAB MATH C7P, AR, COM.L ZOO_C6P_SKK	BOT C6T PG L1 CHEM C6P, BKM, ORG LAB GEO SEC-1 SM1 GEO. L MATH C7T, AR, COM.L PHYS C7P, SD, ELECTRO LAB ZOO_C6P_SKK	BOT C5P NB L1 CHEM SEC1T, SB, CH LAB GEO C7T MMM GEO. MATH SEC1, SJ, TR PHYS C7P, SD, ELECTRO LAB ZOO_C6T_PD	BOT C5P NB L1 CHEM GE3T, SMA ORG LAB GEO C7T SD GEO. L PHYS GE3T, AIM, GEN LAB PHYSIO_GE-3T_PD			
		G		DSC1CT, XXX		MATH DSC1C, SJ, COM.L			
	V	H	GEO C12T SM1 GEO. L	BOT DSE1P NB L2 CHEM DSE1T, SB, IORG LAB GEO C11T SD S7 MATH C11, SJ, F.ANNEX PHYS DSE1T, AIM, ELECTRIC LAB ZOO DSE2T-RKK	BOT C11P PG L2 CHEM DSE1P, BKM, IORG LAB GEO DSE-1 SD S7 MATH C12, SP, DEPT PHYS C11T, AIM, ELECTRIC LAB ZOO DSE2P-RKK	BOT C11P PG L2 CHEM DSE1P, BKM, IORG LAB MATH C12, SP, S4 PHYS DSE1T, TK, ELECTRO LAB ZOO DSE1T-BM	ZOO DSE1T-BM		
		G		BOT DSE2AT UKK L3 ZOO DSE1AT-PAM	BOT DSE2AP UKK L3 ZOO DSE1AP-PAM	BOT DSE2AP UKK L3 ZOO SEC1T-PAM			

ROUTINE SCIENCE (JULY' 2023 – DECEMBER' 2023)

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
MON	I	H		BOT MJ, UKK, L1 CHEM MJ, XXX GEO SEC IB COM. LAB MATH MJ, AR, DEPT PHYS MJ, AP, GEN LAB ZOO MJ-PAM	BOT, MI, UKK, L1 CHEM MI, MS MATH MI, SJ, DEPT PHYS MI, TK, GEN LAB ZOO MI-PAM PHYSIO_HONS-MIN_TH_SKK	HONS-ENVS_TH	BOT MJ, SEC, SKD, L2 CHEM SEC1 PRAC, BS GEO MJ SM1 GEO.L MATH SEC1T, SP	BOT MJ SEC, BH, L1 CHEM SEC1 PRAC, BS GEOMJ IB GEO.L MATH SEC1P, SP	
		G	ZOO MJ-PAM MATH MJ, SJ, DEPT	BOT MJ, BH, L2 PHYSIO_PASS-MAJ-A_TH_SKK	BOT MI BH, L2 PHYS PASS MI, SH, DEPT ANNEX PHYSIO_PASS-MIN-C_TH_SKK	PASS-ENVS_TH	BOT, SEC, UKK, L1 PHYSIO_PASS-SEC-1_PRAC_SKK	BOT, SEC, SKD, L1 MATH SEC1P, AR	
	III	H	CHEM C5P, MS, IORG LAB GEO C7T MMM GEO.L ZOO_C6T_PD	BOT C5P SKD L3 CHEM C5P, MS, IORG LAB GEO C5T SM1 GEO.L MATH C6, SP PHYS C5P, XXX, COMP LAB	BOT C5P SKD L3 CHEM C5T, BS, COMP LAB GEO C5T IB GEO. L MATH C7P, AR, COM. L PHYS C5P, XXX, COMP LAB	BOT C6T BH L2 CHEM C6T, BKM, ORG LAB GEO C6T SM2 S7 MATH C5, SJ, DEPT PHYS C6T, AP, DEPT ANNEX ZOO C5T-PAM	CHEM C7T, SB, IORG LAB GEO C5T IB S7 MATH C5, SJ, DEPT PHYS C7T, TK, DEPT ANNEX ZOO C5P-PAM	CHEM GE3P, MS, IORG LAB PHYS GE3P, AP, ELECTRIC LAB PHYSIO_GE-3P_SKK	CHEM GE3P, MS, IORG LAB PHYS GE3P, AP, ELECTRIC LAB PHYSIO_GE-3P_SKK
		G	PHYS DSC1CT, SH, ELECTRIC LAB	CHEM DSC3T, BKM					MATH DSC1C, SP, DEPT
	V	H		BOT DSE1T BH L3 CHEM DSE1P, SB, IORG LAB GEO DSE-2 MMM S7 MATH C11, SJ, PHYS DSE1T, TK, ELECTRIC LAB ZOO DSE1T-BM	BOT DSE1T BH L2 CHEM DSE1P, SB, IORG LAB GEO DSE-1 SM2 S7 MATH C12, SP, S4 PHYS DSE2T, AP, ELECTRIC LAB ZOO DSE1P-BM	CHEM C12T, SB, IORG LAB GEO DSE-II MMM GEO.L MATHC12, SP, F.ANNEX PHYS C12T, TK, ELECTRIC LAB	BOT C12T BH L1 CHEM DSE1T, MS, F5 GEO C12P SM-2 COM.L MATH DSE1, AR, A2 PHYS DSE2T, SH, ELECTRIC LAB	BOT C12P UKK L2 CHEM C11P, BKM, IORG LAB GEO C12P SM-2 COM.L MATH C11, SJ, DEPT ZOO C11T-PAM	BOT C12P UKK L2 CHEM C11P, BKM, IORG LAB GEO C12T SM1 GEO.L ZOO C11P-PAM
		G							

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
TUE	I	H		BOT MJ, AC, L1 CHEM MJ TH/PRAC, SB GEO MJP SD GEO. L MATH MJ, SP PHYS MJ, AIM, GEN LAB ZOO MJ-RKK	BOT, MJ, PG, L1 CHEM MJ PRAC, SB GEO MJP SD GEO. L MATH MJ, SP ZOO MJ-RKK	AECC_ENGLISH	BOT MI, AC, L1 CHEM MI TH/PRAC, MS PHYS MI PRAC, AP, GEN LAB ZOO MI-RKK PHYSIO_HONS_MIN_TH_PD	BOT MIPG, L1 CHEM MI PRAC, MS PHYS MI PRAC, AP, GEN LAB ZOO MI-RKK	
		G	MATH MJ, SRP, DEPT	BOT MJ, UKK, L2 MATH MJ, SJ ZOO MJ-PAM PHYSIO_PASS_MAJ-A_PRAC_PD	BOT MJ, NB, L2 ZOO MJ-PAM	AECC_ENGLISH	BOT, MIBH, L2 MATH MI, SJ PHYS PASS MI PRAC, SH, GEN LAB PHYSIO_PASS_MIN-C_TH_PD	BOT MI NB L2 PHYS PASS MI PRAC, SH, GEN LAB	
	III	H	GEO C7T SD GEO. L ZOO C7T-PC PHYSIO_GE-3T_PD	BOT C5T NB L3 CHEM C7T, SMA, IORG LAB GEO C5T IB S7 MATH C7T, SRP, F.ANNEX PHYS C5T, TK, DEPT ANNEX ZOO C7P-PC	BOT C7T AC L3 CHEM C6T, MS, IORG LAB GEO C6T SM2 S7 MATH C5, SJ, F.ANNEX PHYS C6T, AP, DEPT ANNEX ZOO_C6P_PD	BOT C7T PG L2 CHEM C5T, MS, ORG LAB MATH C6, SP, DEPT PHYS C7T, SH, DEPT ANNEX ZOO_C6P_PD	BOT GE3P NB L3 CHEM GE3T, BS, ORG LAB PHYS GE3T, AIM, DEPT ANNEX ZOO GE3T-PC	BOT SEC3 BH L3 CHEM C6P, BKM, ORG LAB MATH C6, SP, DEPT PHYS C6P, SD, ELECTRIC LAB ZOO GE3P-PC	BOT SEC3 BH L3 CHEM C6P, BKM, ORG LAB MATH C7P, AR, COM. L PHYS C6P, SD, ELECTRIC LAB
		G	CHEM DSC3T, SB, IORG LAB	PHYS DSC1CT, SH, OPTIC LAB	BOT DSC2CT UKK L2	BOT SEC AC L3 CHEM DSC3P, SMA, CHEM LAB	MATH SEC1, SP, COM. L CHEM DSC3P, SMA, CHEM LAB	MATH DSC1C, SJ, DEPT	
	V	H		BOT C11P AC L3 CHEM C11T, BKM, COMP LAB MATH DSE1, AR, DEPT PHYS C11T, SD, ELECTRIC LAB	CHEM C12T, SMA, COMP LAB GEO C11P SM2 COM. L MATH DSE1, AR, DEPT PHYS DSE1T, AIM, ELECTRIC LAB ZOO DSE2T-PC	BOT DSE2T BH L1 CHEM DSE2T, SB, IORG LAB GEO DSE-1 SD GEO. L MATH C11, SJ, F5 PHYS DSE2T, AP, ELECTRIC LAB ZOO C12T-PAM	BOT C12T UKK L1 CHEM C12P, SB, IORG LAB GEO C11P SD GEO. L MATH DSE2, SRP, DEPT PHYS C12P, TK, ELECTRIC LAB ZOO C12T-PAM	BOT C12T UKK L1 CHEM C12P, SB, IORG LAB GEO C11T IB GEO. L MATH DSE2, SRP, DEPT PHYS C12P, TK, ELECTRIC LAB ZOO C12P-PAM	BOT DSE2T PG L2 GEO DSE-II IB GEO. L PHYS DSE2T, SH, GEN LAB ZOO C12P-PAM
		G		BOT DSE2AT UKK L2			BOT DSE2AT PG L2	BOT DSE 1AT AC L2	

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
WED	I	H		BOT MJ, SKD, L1 CHEM MJ, SMA GEO MJP IB GEO. L MATH MJ, SP, DEPT PHYS MJ, AP, GEN LAB ZOO MJ-RKK	BOT, MI, SKD, L1 CHEM MI, MS PHYS MI, AP, GEN LAB ZOO MI-RKK PHYSIO_HONS_MIN _TH_PD	HONS_MDC_TH	HONS-ENVS_TH	GEO SECP IB COM. L PHYS SEC1 PRAC, AP, COMP LAB ZOO SEC1P-RKK	PHYS SEC1 PRAC, AP, COMP LAB
		G	MATH MJ, SP, DEPT	BOT MJ, NB, L2 PHYSIO_PASS_MAJ- A_TH_PD	BOT MI, NB, L2 PHYS PASS MI, SH, ELECTRO LAB PHYSIO_PASS_MIN- C_TH_PD	PASS_MDC_TH	PASS-ENVS_TH		
	III	H		BOT C7P AC L3 CHEM C5T, MS, IORG LAB GEO SEC-1SD S7 MATH C7T, SRP,DEPT PHYS C5T, AIM, ELECTRIC LAB	BOT C7T AC L3 CHEM C6T, SMA, IORG LAB GEO C6T IB GEO.L MATH C6, SP, F.ANNEX PHYS C6T, SD, DEPT ANNEX	BOT C6T PG L2 CHEM C7T, SMA, IORG LAB GEO C6P IB GEO. L MATH C6, SP, TR PHYS C7T, SH, DEPT ANNEX ZOO C5T-RKK	BOT C7P NB L3 CHEM GE3T, SMA PHYS GE3T, SD, ELECTRIC LAB ZOO C5P-RKK PHYSIO_GE-3T_PD	BOT C7P NB L3 CHEM C7P, SMA, IORG LAB MATH C7T, SRP, DEPT PHYS C7P, SH, ELECTRO LAB	CHEM C7P, SMA, IORG LAB MATH C7T, SRP, DEPT PHYS C7P, SH, ELECTRO LAB ZOO GE3P-PC
		G			MATH DSC1C, SRP, COM.L	BOT SEC 1T NB L3 DSC 3T, BS, IORG LAB	BOT DSC2CT AC L1 PHYS DSC1CP, XXX	BOT DSC2CP AC L2 PHYS DSC1CP, XXX	BOT SEC BH L1 PHYS DSC1CT, SD, ELECTRIC LAB
	V	H	CHEM DSE2P, SB, ORG LAB GEO DSE-1 SM2 GEO. L	BOT C12P BH L2 CHEM DSE2P, SB, ORG LAB GEO C11P SM2 COM. L ZOO DSE2T-PC	BOT C12P BH L2 CHEM C11T, BS, COMP LAB GEO C11P SD COM. L PHYS C11T, AIM, ELECTRIC LAB ZOO DSE2T-PC	BOT C11T AC L1 CHEM DSE1T, MS, ORG LAB GEO DSE-1 SM2 S7 MATH DSE2, SRP, F.ANNEX PHYS DSE2T, AP, ELECTRIC LAB ZOO DSE2P-PC	BOT C12T SKD L1 CHEM DSE2T, SB, ORG LAB GEO C12T IB S7 MATH DSE2, SRP, DEPT PHYS C11P, AIM, COMP LAB ZOO DSE2P-PC	BOT DSE2P PG L1 CHEM C11P, MS, IORG LAB MATH C12, SP, DEPT PHYS C11P, AIM, COMP LAB ZOO DSE2P-PC	BOT DSE2P PG L2 CHEM C11P, MS, IORG LAB
		G		BOT DSE2AT PG L2		BOT SEC-3T BH L1	BOT DSE2AT PG L2		

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
THURS	I	H	PHYS MJ, AIM, GEN LAB	BOT MJ, BH, L1 CHEM MJ TH/PRAC, SMA MATH MJ, SRP ZOO MJ-RKK	BOT, MJ, NB, L1 CHEM MJ PRAC, BKM GEO MJ SD S7 MATH MJ, SJ ZOO MJ-RKK	BOT, MI, BH, L1 CHEM MI TH/PRAC, BKM GEO MJ SD S7 PHYS MI, TK, GEN LAB PHYSIO_HONS_MIN _PRAC_PD	BOT MI, AC L1 CHEM MI PRAC, XXX ZOO MI-RKK	BOT MJ SEC, NB, L1 CHEM SEC1, BKM MATH SEC1, SJ PHYS SEC1 PRAC, AIM, COMP LAB ZOO SEC1P-RKK	PHYS SEC1 PRAC, AIM, COMP LAB
		G		BOT MJ, NB, L2 MATH MJ, AR PHYSIO_PASS_MAJ-A_TH_PD	BOT MJ BH, L2	BOT MI AC L2 PHYS PASS MI, XXX, DEPT ANNEX	BOT, MI PG L2 MATH MI, SRP PHYSIO_PASS_MIN-C _PRAC_PD	BOT MJ SEC AC, L2 PHYSIO_PASS_SEC-1 _TH_SKK	MATH MJ, SJ, DEPT
	III	H	GEO C6T IB GEO. L ZOO C5T-PAM	BOT C5P PG L3 CHEM C5P, BS, IORG LAB GEO C7T MMM GEO. L MATH C5, SJ, DEPT PHYS C5P, AIM, COMP LAB ZOO C5P-PAM	BOT C5P PG L3 CHEM C5P, BS, IORG LAB GEO C6P MMM GEO. L MATH C7T, AR, F.ANNEX PHYS C5P, AIM, COMP LAB ZOO_C6T_PD	BOT C5T NB L2 CHEM C6T, SMA, IORG LAB GEO C6P MMM GEO. L MATH C7T, AR, F.ANNEX PHYS SEC1T, SH, ELECTRO LAB ZOO SEC2T-RKK	BOT C6P UKK L3 CHEM C7T, SMA, IORG LAB PHYS C7T, TK, DEPT ANNEX	BOT C6P UKK L3 BOT GE3P BH L 2 CHEM GE3P, SMA, IORG LAB PHYS GE3P, AP, ELECTRIC LAB ZOO GE3T-PAM PHYSO_GE-3P_PD	BOT GE3P BH L 2 CHEM GE3P, SMA, IORG LAB PHYS GE3P, AP, ELECTRIC LAB ZOO GE3P-PAM PHYSO_GE-3P_PD
		G	DSC3P, XXX, CHEM LAB	DSC3P, XXX, CHEM LAB		DSC3T, XXX MATH DSC1C, SJ, COM.L		MATH SEC1, SRP, COM.L	
	V	H	PHYS C12P, AP, ELECTRIC LAB	BOT DSE2P UKK L2 CHEM C11T, BKM, ORG LAB PHYS C12P, AP, ELECTRIC LAB	BOT DSE2P UKK L2 CHEM C12T, SMA, PHYS LAB GEO C11T IB S7 MATH DSE2, SRP, DEPT PHYS C12T, AP, ELECTRIC LAB ZOO C11T-PAM	BOT C11T PG L1 CHEM DSE1T, BS, ORG LAB GEO DSE-1 SD S7 MATH DSE2, SRP, DEPT PHYS DSE1T, AIM, ELECTRIC LAB ZOO C11P-PAM	BOT DSE1T NB L1 CHEM DSE2T, BKM, ORG LAB GEO C11T SD GEO. L MATH C11, SJ, DEPT PHYS DSE2T, SH, ELECTRIC LAB ZOO C12T-PAM	BOT C11T PG L2 CHEM C12P, BS, ORG LAB GEO DSE-2 MMM GEO. L MATH DSE1, AR, DEPT PHYS C12T, TK, ELECTRIC LAB	BOT C11T AC L1 CHEM C12P, BS, ORG LAB
		G							

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
FRI	I	H		HONS_ENVS_PRAC	HONS_ENVS_PRAC	HONS_MDC_TH	AECC_ENGLISH	BOT MJ SEC, PG, L1 CHEM SEC1 PRAC, SMA GEO MJ SM1 GEO. L MATH SEC1, AR PHYS SEC1 PRAC, AIM, COMP LAB ZOO SEC1P-RKK	CHEM SEC1 PRAC, SMA PHYS SEC1 PRAC, AIM, COMP LAB
		G		PASS_ENVS_PRAC	PASS_ENVS_PRAC	PASS_MDC_TH	AECC_ENGLISH	BOT, SEC, SKD, L1 ZOO SEC1P-PC PHYSIO_PASS_SEC-1_TH_PD	
	III	H	CHEM C7P, SMA, IORG LAB PHYS C6P, AP, ELECTRIC LAB	BOT GE3P NB L1 CHEM C7P, SMA, IORG LAB GEO C7T SD GEO. L MATH C6, SP, F.ANNEX PHYS C6P, AP, ELECTRIC LAB ZOO C7T-PAM	BOT C6P PG L1 CHEM SEC1T, SB, ORG LAB GEO C5T SM1 GEO. L MATH SEC1, SP, F.ANNEX PHYS C5T, AIM, GEN LAB ZOO C7P-PAM ZOO_C6T_PD	BOT SEC UKK L1 CHEM C5T, SB, IORG LAB GEO 5T SM1 GEO. L MATH C5, SJ, F.ANNEX PHYS SEC1T, SD, GEN LAB ZOO_C6T_SKK	BOT C7T NB L1 BOT GE3T BH L3 CHEM GE3T, SMA, IORG LAB PHYS GE3, SD, GEN LAB PYSIO_GE-3T_PD	BOT GE3T BH L3 CHEM SEC1P, SB, IORG LAB MATH C5, SJ, DEPT PHYS C6T, SD, DEPT ANNEX ZOO GE3T-PAM	BOT C6T PG L3 CHEM SEC1P, SB, IORG LAB PHYS C5T, TK, ELECTRIC LAB ZOO GE3P-PC
		G	PHYS DSC1CP, SD, ELECTRO LAB	BOT DSC2CT SKD L3 PHYS DSC1CP, SD, ELECTRO LAB	BOT DSC2CP SKD L3	BOT DSC2CP SKD L3	BOT SEC1T, SKD, L3 MATH SEC1, SJ, COM.L	MATH DSC1C, SP, COM.L	
	V	H		BOT DSE1P BH L2 CHEM C12T, BS GEO C12T IB S7 MATH DSE1, AR, DEPT PHYS C11T, AIM, GEN LAB ZOO C11T-RKK	BOT DSE1P BH L2 CHEM C11T, BKM GEO DSE-2 IB S7 MATH C11, SJ,F.ANNEX PHYS DSE1T, TK, ELECTRIC LAB ZOO C11P-RKK	BOT DSE1P NB L2 CHEM DSE2T, BKM, ORG LAB GEO DSE-2 IB S7 MATH DSE1, AR, DEPT PHYS C11P, AIM, COMP LAB ZOO C12T-PAM	CHEM DSE2P, BKM, ORG LAB GEO C12P SD COM. L MATH C12, SP,S2 PHYS C11P, AIM, COMP LAB ZOO C12P-PAM	BOT DSE1T NB L2 CHEM DSE2P, BKM, ORG LAB GEO C12P SD COM. L PHYS C12T, AP, GEN LAB	BOT DSE1T NB L2
		G					BOT DSE2AP PG L2		

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
SAT	I	H		HONS_ENVS_TH	HONS_MDC_TH				
		G		PASS_ENVS_TH	PASS_MDC_TH				
	III	H	CHEM C6P, BKM, ORG LAB MATH C7P, AR, COM.L ZOO_C6P_SKK	BOT C6T PG L1 CHEM C6P, BKM, ORG LAB GEO SEC-1 SM1 GEO. L MATH C7T, AR, COM.L PHYS C7P, SD, ELECTRO LAB ZOO_C6P_SKK	BOT C5P NB L1 CHEM SEC1T, SB GEO C7T MMM GEO. MATH SEC1, SJ, TR PHYS C7P, SD, ELECTRO LAB ZOO_C6T_PD	BOT C5P NB L1 CHEM GE3T, SMA, ORG LAB GEO C7T SD GEO. L PHYS GE3T, AIM, GEN LAB PHYSIO_GE-3T_PD			
		G		PHYS DSC1CT, XXX		MATH DSC1C, SJ, COM.L			
	V	H	GEO C12T SM1 GEO. L	BOT DSE1P NB L2 CHEM DSE1T, SB, IORG LAB GEO C11T SD S7 MATH C11, SJ, F.ANNEX PHYS DSE1T, AIM, ELECTRIC LAB ZOO DSE2T-RKK	BOT C11P PG L2 CHEM DSE1P, BKM, IORG LAB GEO DSE-1 SD S7 MATH C12, SP, DEPT PHYS C11T, AIM, ELECTRIC LAB ZOO DSE2P-RKK	BOT C11P PG L2 CHEM DSE1P, BKM, IORG LAB MATH C12, SP, S4 PHYS DSE1T, TK, ELECTRO LAB ZOO DSE1T-BM	ZOO DSE1T-BM		
		G		BOT DSE2AT UKK L3 ZOO DSE1AT-PAM	BOT DSE2AP UKK L3 ZOO DSE1AP-PAM	BOT DSE2AP UKK L3 ZOO SEC1T-PAM			

মিটিং রেজল্যুশন বহি
MEETING RESOLUTION BOOK

মিটিং নং / Meeting No.	
তারিখ / Date	

উপস্থিত সভ্যগণের নাম
NAME OF MEMBERS PRESENT

স্থান / Place	
সময় / Time	

১। 1.
২। 2. Akul Rana
৩। 3. Tapanendu Kamilya
৪। 4. Nilanjana Bhattacharyya
৫। 5. Uttam Kumar Kanp
৬। 6.
৭। 7.
৮। 8.
৯। 9.
১০। 10.
১১। 11.
১২। 12.
১৩। 13.
১৪। 14.
১৫। 15.
১৬। 16.
১৭। 17.
১৮। 18.
১৯। 19.
২০। 20.
২১। 21.

NARAJOLE RAJ COLLEGE
(NAAC Accredited B grade)
NARAJOLE: PASCHIM MEDINIPUR: PIN-721211

Notice

Dated: *04*.01.2024

Notice is hereby given that an urgent meeting of the academic committee will be held on 05.01.2024 (Friday) at 12.00 noon in the Principal's Chamber to discuss the following agenda. Please, make it convenient to join the meeting.

Agenda:

1. Read and Confirm resolution of the previous meeting.
2. Regarding restructure of Academic Committee
3. Miscellaneous, if any, with the permission of the chair.

Signature of the Principal
Dr. Basudev Mandal

Signature of the Convenor
Dr. Akul Rana

Copy forwarded for information and necessary action to:

1. Dr. Nilanjana Bhattacharyya-Member
2. Dr. Tapanendu Kamilya-Member Tapanendu Kamilya
3. Dr. Uttam Kumar Kanp-Member
4. Prof. Pragna Paramita Mondal-Member
5. Dr. Dipak Shom -Member
6. Prof. Asis Bhattacharyya-Member
7. Prof. Barun Rout-Member
8. Sri Suvadip Samanta-Member

নং / No.	রেজল্যুশন / Resolution Adopted

Estd.-1966

Proceedings of the meeting of the Academic Committee held on 05-01-2024 (Friday) at 2.00 pm

Venue: Principal's Chamber

The meeting was chaired by Dr. Basudev Mandal, the Principal of the College and Chairman of the Academic Committee. Detailed discussions took place on the agenda ongoing academic activities of the college and the following resolutions were adopted:

1. The resolutions of the previous meeting were read and confirmed.

2. The Convener informed the house there are some miscommunication and he faces some problem to function academic committee due to the absence of representative from all academic departments of the college. He proposed to include representative from all academic department. After detailed discussion it is resolved that representative from all academic departments of the college may be present as invitee member in some important academic committee meeting.

   Misc. (i) Prof. A. Bhattacharyya and Dr. D. Shom proposed to conduct a meeting before every internal examination of the college and the proposal accepted in the meeting.

As there was no further agenda for discussion, the meeting ended with a reciprocal vote of thanks to and from the Chair.

CONVENOR
(DR. AKUL RANA)

CHAIRMAN
(DR. BASUDEV MANDAL)

NARAJOLE RAJ COLLEGE
MASTER ROUTINE FOR 2nd Semester, 4th Semester & 6th Semester
Session -2023-2024

Monday		10.00-11.00	11.00-12.00	12.00-01.00	01.00-020.00	02.00-03.00	03.00-04.00	04.00-05.00
Monday	2nd Sem. (H)	Bng-Major-2-G6- **S.P** Eng- Major-2- G5- MM Sans- Major-2- G4- KS Hist- Major-2- G1- Pols - Major-2- S1-RD Phil- Major-2- S2-**AG**	Bng-Minor-2 -G6- **A.C** Eng- Minor-2 - G5-MB Sans- Minor-2 - G4- US Hist- Minor-2 - G1- UC Pols - Minor-2 - S1-PS Phil- Minor-2 - S2-**BM**	Bng-Sec-2-G6- **SCP** Eng- Sec-2- G5-MM Sans- Sec-2- G4- AB Hist- Sec-2- G1- MN Pols - Sec-2- S1-RD Phil- Sec-2- S2-**ST**				
	2nd Sem. (G)			Edu.-Minor -2- A6- MA Phy.Edu- (A.N) Minor-2 -S6-	Bng-Major-2-G6- **G.J** Eng- Major-2- G5-XX Sans- Major-2- G4- BB Hist- Major-2- G1- MN Pols - Major-2- S1-XX Phil- Major-2- S2-**ST** Edu.- Major -2- A8-IA Phy.Edu-(A.N) Major -2-S6-	Bng-Minor-2 -G6- **S.P** Eng- Minor-2 - G5-XX Sans- Minor-2 - G4-US Hist- Minor-2 - G1- NS Pols - Minor-2 - S1-XX Phil- Minor-2 - S2-**BM**	Bng-Sec-2-G6- **G.J** Eng- Sec-2- G5-MM Sans- Sec-2- G4-BB Hist- Sec-2- G1- BG Pols - Sec-2- S1-XX Phil- Sec-2- S2-**AG** Edu.- Sec-2- G3-IA Phy.Edu- (A.N) Sec-2-S6- Hist- Major-2- A3- CS	
	4th Sem. (H)	Bng-GE4-G3- **GJ** Eng- GE4- G2- MB Sans- GE4-G7- TR Hist- GE4-S5- Pols – GE4-A1-XX Phil- GE4-A2-**BM**	Bng-C8-G3- **N.B** Eng- C8- G2-MM Sans- C8-G7-KS Hist- C8-S5-NS Pols - C8-A1-RD Phil- C8-A2-**ST**	Bng-C9-G3- **G.J** Eng- C9-G2-MB Sans- C9-G7-AC Hist -C9-S5-CS Pols - C9-A1-PS Phil- C9-A2-**BM**	Bng-C10-G3- **A.C** Eng- C10-G2- SDR Sans C10-G7-AB Hist - C10-S5-BG Pols - C10-A1-PS Phil- C10-A2-XX			
	4th Sem. (G)	Phil- DSC1D/2D-A7-XX	Phy.Edu- (A.N) DSC1D/2D –SH – Sans- DSC1D/2D-S6- EX	Bng-DSC1D/2D-SH- **BX**	AECC -Beng-2- SH- **BX**	Hist - DSC1D/2D-G3 UC Pols - DSC1D/2D-S5-RD Hist-GE4- G2-CS	Eng- DSC1D/2D-G2-XX Edu.-DSC1D/2D –G7-MA Hist-Sec (G) S4- NS	Bng-SEC2-G3- **S.P** Eng- SEC2-G2-MB Sans SEC2-G7-TR Hist - SEC2-S5- NS Pols - SEC2-A1-PS Phil- SEC2-A2-**AG** Edu-SEC2-A8-IA Phy.Edu.- SEC2- A7- (A.N)
	6th Sem.(H)	Bng-C13-A4- **A.C** Eng- C13- A5-SDR Sans- C13-A6-US Hist- C13-A3- Pols - C13-S3-XX	Bng- C14-A4- **BX** Eng- C14- A5-SDR Sans- C14-A6-BB Hist- C14-A3- MN Pols - C14-S3-XX		Bng-DSE3-A4- **S.P** Eng- DSE3- A5-MB Sans- DSE3-A6-KS Hist- DSE3-A3-UC Pols - DSE3-S3-RD	Bng- DSE4-A4- N.B Eng- - DSE4- A5-SDR Sans- - DSE4-A6-TR Hist- - DSE4-A3-MN Pols - - DSE4-S3-PS	Hist- DSE3- S5-MN	Hist- C13-G1- BG

NARAJOLE RAJ COLLEGE
MASTER ROUTINE FOR 2nd Semester, 4th Semester & 6th Semester
Session -2023-2024

		Phil- C13-S4-**ST**	Phil- C14-S4-XX		Phil- DSE3-S4-**AG**	Phil- - DSE4-S4-**AG**		
	6th Sem. (G))	Edu.-DSE1B/2B –A8-MA Eng- DSE1B/2B –S6- XX	Bng- DSE1B/2B -A8- **G.J**	Sans- DSE1B/2B –A3- Phy.Edu- (A.N) DSE1B/2B –A4- EX	Hist- DSE1B/2B -SH- CS	Pols - DSE1B/2B –S6-XX	Phil- DSE1B/2B -S4-**ST**	Bng- GE2 -A4- **BX** Eng- GE2 -- A5-XX Sans- GE2 -A6-AB Hist- GE2 --A3- Pols - GE2 - -S3-XX Phil- GE2 -S4-XX Edu.- GE2-G6-MA Phy.Edu- GE2-S6- (A.N)
Tuesday		10.00-11.00	11.00-12.00	12.00-01.00	01.00-020.00	02.00-03.00	03.00-04.00	04.00-05.00
Tuesday	2nd Sem. (H)	Bng-Minor-2 -G6- **BX**	Bng-Major-2-G6- **G.J** Eng- Major-2- G5-SDR Sans- Major-2- G4-AB Hist- Major-2- G1- MN Pols - Major-2- S1-SS Phil- Major-2- S2-**AG**	Bng-Minor-2 -G6- BX Eng- Minor-2 - G5-XX Sans- Minor-2 - G4-KS Hist- Minor-2 - G1- BPJ Pols - Minor-2 1- S1-BR Phil- Minor-2 - S2-**TA**	Bng-Sec-2-G6- BX Eng- Sec-2- G5-PPM Sans- Sec-2- G4-US Hist- Sec-2- G1- BS Pols - Sec-2- S1-RD Phil- Sec-2-S2-**ST**			
	2nd Sem. (G)					Bng-Major-2-G6- BX Eng- Major-2- G5-MM Sans- Major-2- G4-AC Hist- Major-2- G1- NS Pols - Major-2- S1-XX Phil- Major-2- S2-**XX** Edu.- Major -2- A6-RAB Phy.Edu- (P.M) Major -2-S6-	Bng-Minor-2 -G6- BX Eng- Minor-2 - G5-MB Sans- Minor-2 - G4-TJ Hist- Minor-2 - G1- UC Pols - Minor-2 - S1-XX Phil- Minor-2 - S2-**ST** Edu.-Minor -2- SH-IA Phy.Edu- (A.N) Minor-2 -S6- Hist- Major-2- S7- BPJ	Bng-Sec-2-G6-BX Eng- Sec-2- G5-XX Sans- Sec-2- G4-TR Hist- Sec-2- G1-UC Pols - Sec-2- S1-XX Phil- Sec-2-S2-**AG** Edu.- Sec-2- A4-IA Phy.Edu- (A.N) Sec-2-S6-
	4th Sem. (H)	Bng-C8-G3- BX Eng- C8- G2-MM Sans- C8-G7-KS Hist- C8-S5- Pols - C8-A1-XX Phil- C8-A2-**AG**	Bng-C9-G3- A.C Eng- C9-G2-MB Sans- C9-G7-US Hist –C8-S5- BPJ Pols - C9-A1-BR Phil- C9-A2-**BM**	Bng-C10-G3- N.B Eng- C10-G2-SDR Sans C10-G7-TJ Hist – C9-S5- BS Pols - C10-A1-SS Phil- C10-A2-**ST**	Hist – C10-S5- BPJ	Bng-GE4-G2- GJ Eng- GE4- G7-MB Sans- GE4-S5-TR Hist- GE4-A1- BG Pols – GE4-A2-SS Phil- GE4-A8-**BM** EDU-GE4-A-6-M.A	Hist- Sec (H)- A3-MN	Bng-Sec-2-G3-D.S Eng- Sec-2- G2-MM Sans- Sec-2- G7-BB Hist- Sec-2- S5- BS Pols - Sec-2- A1-SS Phil- Sec-2-A2-**ST**

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	4th Sem. (G)	Phy.Edu- (A.N) DSC1D/2D -S6- Sans- DSC1D/2D-A8- US	AECC -Beng-2-SH- BX	AECC -Beng-2-R-Ex - BX Hist- DSC1D/2D-SH- CS	Pols - DSC1D/2D-A1-SS Phil- DSC1D/2D-A1A2-**BM**	Bng-DSC1D/2D-G3- BX	Bng-SEC2-G3- SCP Eng- SEC2-G2-PPM Sans SEC2-G7- AB Hist - SEC2-S5- CS Pols - SEC2-A1-XX Phil- SEC2-A2-XX Phy.Edu- SEC2-A7- (A.N) Edu- SEC2-A8-RAB	Eng- DSC1D/2D-A7-XX Edu- DSC1D/2D-A8-MA
	6th Sem.(H)	Bng-C13-A4- BX Eng- C13- A5-SDR Sans- C13-A6-AC Hist- C13-A3- Pols - C13-S3-XX Phil- C13-S4-**BM**	Bng- C14-A4- M.A Eng- C14- A5-PPM Sans- C14-A6-TJ Hist- DSE3-A3- UC Pols - C14-S3-XX Phil- C14-S4-**TA**	Bng-DSE3-A4-G.J Eng- DSE3- A5-PPM Sans- DSE3-A6-AB Hist- C14-A3- NS Pols - DSE3-S3-RD Phil- DSE3-S4-XX	Bng- DSE4-A4- BX Eng- - DSE4- A5-SDR Sans- - DSE4-A6-TR Hist- - DSE4-A3- CS Pols - - DSE4-S3-SS Phil- - DSE4-S4-**TA**			
	6th Sem. (G))	Hist- DSE1B/2B -SH-	Bng- DSE1B/2B –A8- BX	Edu.-GE 1 –S6-RAB Eng- DSE1B/2B – A8-	Sans- DSE1B/2B -S6- TJ Phy.Edu- (P.M) DSE1B/2B –SH	Phil- DSE1B/2B -S4-**ST** - Hist-Sec4- A3-MN	Bng- GE2 -A4- BX Eng- GE2- A5- Sans- GE2-A6-BB Hist- GE2-A3- BG Pols - GE2A -S3-BR Phil- GE2-S4-**BM** Edu.- GE2 –A3-MA Phy.Edu- (P.M) GE2–Prac.-	Pols - DSE1B/2B - -S3-BR
Wednesday		10.00-11.00	11.00-12.00	12.00-01.00	01.00-020.00	02.00-03.00	03.00-04.00	04.00-05.00
Wednesday	2nd Sem. (H)	Bng-Major-2-G6- BX Eng- Major-2- G5-PPM Sans- Major-2- G4-TJ Hist- Major-2- G1- Pols - Major-2- S1-XX Phil- Major-2- S2-**ST**	Bng-Minor-2 -G6-M.A Eng- Minor-2 - G5-PPM Sans- Minor-2 - G4-KS Hist- Minor-2 - G1- NS Pols - Minor-2 1- S1-XX Phil- Minor-2 - S2-**TA**	Bng-Sec-2-G6-D.S Eng- Sec-2- G5-MM Sans- Sec-2- G4-AB Hist- Sec-2- G1- CS Pols - Sec-2- S1-SS Phil- Sec-2-S2-**ST**				
	2nd Sem. (G)	Edu.- Major -1- SH-RAB Phy.Edu- (A.N) Major -1-S6-			Bng-Major-2-G6- BX Eng- Major-2- G5-XX Sans- Major-2- G4-RM	Bng-Minor-2 -G6-G.J Eng- Minor-2 - G5-MM Sans- Minor-2 - G4-AB	Bng-Sec-2-G6-BX Eng- Sec-2- G5- Sans- Sec-2- G4-TJ	

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					Hist- Major-2- G1- BG Pols - Major-2- S1-XX Phil- Major-2- S2-XX	Hist- Minor-2 - G1- UC Pols - Minor-2 - S1-XX Phil- Minor-2 - S2-**BM** Edu.-Minor -2- S6-IA Phy.Edu- (A.N) Minor-2 -A8-	Hist- Sec-2- G1- BG Pols - Sec-2- S1-XX Phil- Sec-2- S2-**ST** Edu.- Sec-2- G-2-RAB Phy.Edu- (A.N) Sec-2-S6-	
	4th Sem. (H)	Sans- C9-F1- AC GE4-S1-RD	Bng-C8-G3-G.J Eng- C8- G2-SK Sans- C8-G7-RM Hist- C10-S5- CS Pols - C8-A1-RD Phil- C8-A2-**ST**	Bng-C9-G3-SCP Eng- C9-G2-SDR Sans- C9-G7-BB Hist -C9-S5- NS Pols - C9-A1-XX Phil- C9-A2-XX	Bng-C10-G3- G.J Eng- C10-G2-SK Sans C10-G7-TJ Hist – C8-S5- NS Pols - C10-A1-SS Phil- C10-A2-**BM**	Hist-GE4-S5-BG	Hist-C10-S5-CS	Bng-GE4-G6- M.A Eng- GE4-G5-XX Sans GE4-G4-US Hist - GE4-G1- CS Phil- GE4-S2-**TA**
	4th Sem. (G)	Pols - DSC1D/2D-A8-XX	Phy.Edu- (P.M) DSC1D/2D -S6- Sans- DSC1D/2D-A8- US	Phil- DSC1D/2D-A7-**BM**	AECC -Beng-2 -SH- D.S	Eng- DSC1D/2D-G2-SK - Edu.-DSC1D/2D –G7-RAB	Bng-DSC1D/2D-G3-GJ	Hist- DSC1D/2D-S5-
	6th Sem.(H)		Bng-C13-A4-D.S Eng- C13- A5-SDR Sans- C13-A6-AC Hist- C14-A3- UC Pols - C13-S3-SS Phil- C13-S4-**BM**	Bng- C14-A4-BX Eng- C14- A5-PPM Sans- C14-A6-TJ Hist- C13-A3- BG Pols - C14-S3-RD Phil- C14-S4-**TA**	Bng-DSE3-A4- BX Eng- DSE3- A5-PPM Sans- DSE3-A6-AB Hist- DSE4-A3- CS Pols - DSE3-S3-XX Phil- DSE3-S4-**ST**	Bng- DSE4-A4-BX Eng- - DSE4- A5-SDR Sans- - DSE4-A6-RM Hist- - DSE3-A3- NS Pols - - DSE4-S3-SS Phil- - DSE4-S4-XX		
	6th Sem. (G))	Bng- GE2 -A4-BX Eng- GE2 -- A5-MM Sans- GE2 -A6- AB Hist- GE2 --A3- Pols - GE2 - -S3-SS Phil- GE2 -S4-XX Edu.- GE2-A7-IA Phy.Edu-GE2–G2 – (P.M)	Sans- DSE1B/2B –A7- BB Phy.Edu-DSE1B/2B –SH (A.N)	Hist- DSE1B/2B –S6- UC	Edu.-DSE1B/2B -LLR-RAB Eng- DSE1B/2B – A8-XX	Phil- DSE1B/2B –S6-**ST**	Bng- DSE1B/2B -A4-D.R Pols - DSE1B/2B -S3-SS	Bng- SEC4 -A4- D.R Eng- SEC4 - A5-XX Sans- SEC4 -A6-AC Hist- SEC4 -A3- Pols - SEC4 -S3-SS Phil- SEC4 -S4-**BM** Edu.- SEC4 – G7-IA Phy.Edu- SEC4 -S6- (A.N)
Thursday		10.00-11.00	11.00-12.00	12.00-01.00	01.00-020.00	02.00-03.00	03.00-04.00	04.00-05.00
Thursday	2nd Sem. (H)	Bng-Minor-2 –F3- M.A	Bng-Major-2-G6- N.B Eng- Major-2- G5-SK Sans- Major-2- G4-RM	Bng-Minor-2 -G6-D.R Eng- Minor-2 - G5-PPM Sans- Minor-2 - G4-TJ				

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			Hist- Major-2- G1- BPJ Pols - Major-2- S1-SS Phil- Major-2- S2-XX	Hist- Minor-2 - G1- BS Pols - Minor-2 1- S1-BR Phil- Minor-2 - S2-**TA**				
	2nd Sem. (G)				Bng-Major-2-G6-D.R Eng- Major-2- G5-PPM Sans- Major-2- G4-AC Hist- Major-2- G1- MN Pols - Major-2- S1-XX Phil- Major-2- S2-**ST** Edu.- Major -2- S6-RAB Phy.Edu- (P.M) Major -2- A7-	Bng-Minor-2 -G6-BX Eng- Minor-2 - G5-SK Sans- Minor-2 - G4-TJ Hist- Minor-2 - G1- BS Pols - Minor-2 - S1-XX Phil- Minor-2 - S2-**ST** Edu.-Minor -2- G7-IA Phy.Edu-Minor-2 -S6-(P.M)		
	4th Sem. (H)	Bng-GE4-G3- BX Eng- GE4- G2-PPM Sans- GE4-G7-AC Hist- GE4-S5- Pols – GE4-A1-XX Phil- GE4-A2-**TA**	Bng-C8-G3- M.A Eng- C8- G2-PPM Sans- C8-G7-KS Hist- C8-S5- MN Pols - C8-A1-SS Phil- C8-A2-**ST**	Bng-C9-G3- D.S Eng- C9-G2-MM Sans- C10-G7-TR Hist –C10-S5- BG Pols - C9-A1-PS Phil- C9-A2-**AG**	Bng-C10-A4-A.C Eng- C10-G2-SK Sans C9-G7- US Hist – C9-S5- UC Pols - C10-A1-SS Phil- C10-A2-XX	Hist-GE4-A3-BPJ	Hist-SEC(H)-G4-UC	
	4th Sem. (G)	Phil- DSC1D/2D-A8-**ST**	Pols - DSC1D/2D-A8-XX	*Edu.-DSC1D/2D –A3-RAB* *Eng- DSC1D/2D-S6-SK*	AECC -Beng-2 –G3- N.B	Hist - DSC1D/2D-S5- BG	Bng-DSC1D/2D-G3-A.C	Phy.Edu- (P.M) DSC1D/2D -S6- Sans- DSC1D/2D-G7-KS
	6th Sem.(H)	Bng-C13-A4-D.R Eng- C13- A5-SK Sans- C14-A6- BB Hist- C13-A3- Pols - C13-S3-SS Phil- C13-S4-XX	Bng- C14-A4- A.C Eng- C14- A5- Sans- C13-A6- US Hist- C13-A3- BS Pols - C14-S3-BR Phil- C14-S4-**TA**	Hist-C14-S3-MN	Bng- DSE4-SH-D.S Eng- - DSE4- A5-MM Sans- - DSE4-A6-RM Hist- - DSE3-A3- BS Pols - - DSE4-S3-PS Phil- - DSE4-S4-**AG**	Hist-DSE4-S3-MN Hist-GE2-S7-BG	Bng-DSE3-A4-D.R Eng- DSE3- A5-PPM Sans- DSE3-A6-KS Hist- C13-A3- BS Pols - DSE3-S3-SS Phil- DSE3-S4-**AG**	Hist-C14-G1-MN
	6th Sem. (G))	Hist- DSE1B/2B –G6	Phil- DSE1B/2B –S6-**AG**	Bng- DSE1B/2B -A4- BX	Pols - DSE1B/2B –A8-BR	Eng- DSE1B/2B - A5-MM Edu.-DSE1B/2B –A6-RAB	Sans- DSE1B/2B -A6-TJ Phy.Edu- (P.M) DSE1B/2B –S4 -	Bng- GE2 -A4-M.A Eng- GE2 -- A5-MM Sans- GE2 -A6- AB Hist- GE2 --A3- BG Pols - GE2 - -S3-SS

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								Phil- GE2 -S4-T**A** Edu.- GE2-LLR-IA Phy.Edu- GE2-G3- (P.M)
Friday		10.00-11.00	11.00-12.00	12.00-01.00	01.00-020.00	02.00-03.00	03.00-04.00	04.00-05.00
Friday	2nd Sem. (H)		MDC02 -SH	VAC02 -SH	AEC02 –SH-DR	MDC02 -SH	VAC02 -G1	AEC02 -G3
	2nd Sem. (G)		MDC02 -G6	VAC02 -S6	AEC02 -G7-DR	MDC02 -G6	VAC02 -S2	AEC02 -G7
	4th Sem. (H)	Bng-C8-G3- M.A Eng- C8- G2-SK Sans- C8-G7-RM Hist- C8-S5- Pols - C8-A1-XX Phil- C8-A2-**ST**	Bng-C9-G3-D.R Eng- C9-G2-MB Sans- C9-G7-AC Hist –C8-S5- MN Pols - C9-A1-XX Phil- C9-A2-**BM**	Bng-C10-G3-S.P Eng- C10-G2-SK Sans C10-G7-TJ Hist – C9-S5- CS Pols - C10-A1-SS Phil- C10-A2-**TA**	Bng-GE4-G2-BX Eng- GE4- S5-MM Sans- GE4-G6-RM Hist- GE4-A8- MN Pols – GE4-A1-RD Phil- GE4-A2-**BM**	Hist-C10-S3-BG		
	4th Sem. (G)	AECC -Beng-2-SH-BX	Edu.-DSC1D/2D –G5-RAB Eng- DSC1D/2D-S6-SK	Bng-DSC1D/2D-G4-D.R	Sans- DSC1D/2D-G7- TJ Phy.Edu-(A.N) DSC1D/2D –G3-	Hist - DSC1D/2D-S5- CS	Pols - DSC1D/2D-S1-BR	Phil- DSC1D/2D-S2-**BM**
	6th Sem.(H)	Bng-C13-A4- BX Eng- C13- A5-MM Sans- C13-A6-AC Hist- C13-A3- Pols - C13-S3-BR Phil- C13-S4-**BM**	Bng- C14-A4-D.S Eng- C14- A5-PPM Sans- C14-A6-BB Hist- DSE3-A3- CS Pols - C14-S3-PS Phil- C14-S4-**TA**	Bng-DSE3-A4-SCP Eng- DSE3- A5-MB Sans- DSE3-A6-AB Hist- C13-A3- BS Pols - DSE3-S3-RD Phil- DSE3-S4-**ST**	Bng- DSE4-A4-N.B Eng- - DSE4- A5-SDR Sans- - DSE4-A6- TR Hist- - DSE4-A3- CS Pols - - DSE4-S3-SS Phil- - DSE4-S4-**TA**	Hist-C14-G1-MN Hist-GE2-G2-BS Bng- C13-A4-D.R	Hist-DSE4-G1-BPJ	
	6th Sem. (G))	Bng- DSE1B/2B –A8-BX	Phil- DSE1B/2B –S2-**ST** Pols - DSE1B/2B –A8-SS	Hist- DSE1B/2B --G1- MN	Eng- DSE1B/2B – G5-MB Edu.-DSE1B/2B –S5-MA	Sans- DSE1B/2B -A6- TR Phy.Edu- (A.N) DSE1B/2B –S4 -	Bng- SEC4 -A4-M.A Eng- SEC4 - A5-XX Sans- SEC4 -A6- BB Hist- SEC4 -A3- CS Pols - SEC4 -S3-RD Phil- SEC4 -S4- **ST** Edu.- SEC4 -G6-MA Phy.Edu- SEC4 -G5-(P.M)	Bng- GE2 -A4-DR Eng- GE2 -- A5-XX Sans- GE2 -A6- BB Hist- GE2 --A3- BPJ Pols - GE2 - -S3-PS Phil- GE2 -S4-**TA** Edu.- GE2-G4-RAB Phy.Edu- GE2-G5- (A.N)

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Saturday		10.00-11.00	11.00-12.00	12.00-01.00	01.00-020.00	02.00-03.00	03.00-04.00	04.00-05.00
Saturday	2nd Sem. (H)		MDC02 -SH	VAC02 -SH	AEC02 –SH-BX	AEC02 –SH-S.P		
	2nd Sem. (G)		MDC02 -S6	VAC02 - S6	AEC02 - S6 -BX	AEC02 –SH-S.P		
	4th Sem. (H)	Bng-GE4-G4-BX Eng- GE4- G5-PPM Sans- GE4-S2- RM Hist- GE4-G7- Pols – GE4-S1-RD Phil- GE4-S5-XX EDU-GE4-A7-R.A.B	Bng-C8-G3-S.P Eng- C8- G2-SDR Sans- C8-G7-RM Hist- C8-S5- MN Pols - C8-A1-PS Phil- C8-A2-XX	Bng-C9-G3-D.R Eng- C9-G2-MB Hist -C9-S5- BS Pols - C9-A1-PS Phil- C9-A2-**BM**	Bng-C10-G3-SCP Eng- C10-G2-SK Sans C10-G7- TJ Hist - C10-S5- BPJ Pols - C10-A1-SS Phil- C10-A2-**TA**	Hist-GE4-G3-BPJ EDU-GE4-G7-M.A		
	4th Sem. (G)	Eng- DSC1D/2D-G2-MB Edu.-DSC1D/2D –G3-M.A	AECC -Beng-2-F3-N.B	Sans- DSC1D/2D-A7- TJ Phy.Edu-DSC1D/2D –A8- (A.N) Pols - DSC1D/2D-A1-S1-SS	Hist - DSC1D/2D-S5- CS Phil- DSC1D/2D-G4-**BM**	Hist-Sec (G)- G4-MN		
	6th Sem.(H)	Bng-C13-A4-DR Eng- C13- A5-SDR Sans- C13-A6- TJ Hist- C13-A3- Pols - C13-S3-SS Phil- C13-S4-**BM**	Bng- C14-A4-SCP Eng- C14- A5-SK Sans- C14-A6- TJ Hist- C13-A3- BPJ Pols - C14-S3-BR Phil- C14-S4-**TA**	Bng-DSE3-A4-N.B Eng- DSE3- A5-SK Sans- DSE3-A6- EX Hist- C14-A3- MN Pols - DSE3-S3-RD Phil- DSE3-S4-**AG**	Bng- DSE4-A4-SP Eng- - DSE4- A5-MB Sans- - DSE4-A6-RM Hist- - DSE4-A3- MN Pols - - DSE4-S3-PS Phil- - DSE4-S4-**AG**	Hist-DSE3-G1-NS		
	6th Sem. (G))	Bng- GE2 -SH-BX Eng- GE2 – A1-SK Sans- GE2 –A2- EX Hist- GE2 –G1- Pols - GE2 - - S6-XX Phil- GE2 –G3-**TA** Phy.Edu- GE2-A8- (A.N)	Edu.-DSE1B/2B –A8-RAB Eng- DSE1B/2B – G1-MB Hist- DSE1B/2B –S2- CS Phil- DSE1B/2B –G5-xx	Bng- DSE1B/2B –G4-S.P	Phy.Edu- DSE1B/2B –A8 - (A.N) Sans- DSE1B/2B –S2-EX Pols - DSE1B/2B –S1-BR	Hist-GE2-G2-CS		

ROUTINE SCIENCE (JAN' 2024 – JULY' 2024)

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
MON	II	H		Zoo Hons-Major-Th-PAM Major-Th-Chem/BKM Math Hons-Major-AR GEO Major-2p SM2 GEO Lab BOT MJ, UKK, L1 Physics-Hons-Major-Th-AP	Zoo Hons-Minor-Th-PAM Hons-Minor-Th/SB Math Hons-Minor-SJ GEO Major-2p SM2 GEO Lab BOT, MI, UKK, L1 Physics-Hons-Minor-Th-SH **PHYSIO_MN-TH_SKK**	Hons-VAC-02 Th	Zoo Hons-SEC2-Prac- BM Hons-SEC02-Prac/BS Math Hons-Sec2-Pr SP GEO Major-2p SM GEO Lab BOT MJ, SEC, SKD, L2	Zoo Hons-SEC2-Prac- BM Hons-SEC02-Prac/BS Math Hons-Sec2-Pr SP GEO Major-2p SM GEO Lab BOT MJ, SEC, BH, L1 Physics-Hons-SEC2-Prac-AP	**BOT MJ, SEC, AC, L1** Physics-Hons-SEC2-Prac-AP
		G	Math-Pass-Major-Sj	Pass-MajorB-Th BOT MJ, AC, L2 **PHYSIO_MJ-B-TH_SKK**	Pass-MinorC-Th BOT MI, BH, L2 **PHYSIO_MJ-C-TH_SKK**	Pass-VAC02 -Th	Pass-SEC02-Th/Prac BOT MJ, SEC, UKK, L1 **PHYSIO_SEC-TH/PRAC_SKK**	Pass-SEC02- Prac Math Pass-Sec2 Pr-AR BOT MJ, SEC, SKD, L1	
	IV	H	Zoo C10T SKK C9P-Chem-Phy L /BS	C9P-Chem_Phy L /BS Math C8T-TR-SP GEO C10T MMM GEO LAB. BOT C9P SKD L3	C8P-Chem_Iorg L/BS Math Sec2T-com Lab-AR GEO C8T SD PHY. LAB BOT C9P SKD L3 C8T (Phys) - TK	Zoo C8T PAM C8P-Chem_Iorg L /BS Math C9T-Dep-SJ GEO SEC-2T SM GEO. LAB. BOT C8T BH L1 SEC2T (Phys) - SH	Zoo C8P PAM C8T-Chem_Iorg L /BKM Math C9T-Dep-SJ GEO C9T SM2 GEO. LAB. C10T (Phys) - AP	GE4P-Chem_Phy L GEO SAL IB S7	GE4P-Chem_Phy L GEO SAL MMM S7 **PHYSIO_GE-3P_SKK**
		G		DSD3T-Chem			BOT DSC 2DT, AC L3 DSC1D/2D/3D-P (Phys) - SH	DSC1D/2D/3DP (Phys) - SH	

	VI	**H**	DSE4T-Chem_Com L /SB GEO C14T SM GEO. LAB BOT C14T BH L2 DSE3P (Phys) - TK	C14T-Chem_Iorg L /SB GEO C14T SD S7 BOT DSE4T BH L3 DSE3P (Phys) - TK	C13P-Chem_Gen L /BKM GEO DSC4T IB GEO. LAB. C13T (Phys) - AP	C13P-Chem_Gen L /BKM GEO DSE3T SM2 S7 BOT DSE 3T AC L3 DSE3T (Phys) - TK	DSE4P-Chem_Org L/SB GEO DSE 4T IB S7 BOT C14T BH L1	Zoo C13T PAM DSE4P- Chem_Org L/SB GEO C13T SD PHY. LAB BOT C13P UKK L2	Zoo C13P PAM C13T-Chem_Iorg L /BKM BOT C13P UKK L2
		G							

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
TUE	II	H		Zoo Hons-Major-Th-RKK Hons-Major Th/Prac-BKM Math Hons-Major SP GEO MAJOR 2P SM GEO LAB. BOT MJ, PG, L1	Zoo Hons-Major-Prac-RKK Hons-Major- Prac/BKM Math Hons-Major SP GEO MAJOR 2P SM GEO LAB. BOT MJ, SEC 2, PG L1 Physics-Hons-Major-Th-AP	AEC2 Bengali	Zoo Hons-Minor-Th-RKK Hons-Minor-Th/Prac/BS BOT MI, X, L1 Physics-Hons-Minor-Prac-SD Hons-Minor C-Th/Prac Physio-PD	Zoo Hons-Minor-Prac- RKK Hons-Minor-Th/Prac-BS BOT MI PG, L1 Physics-Hons-Minor-Prac-SD	SAL MMM PHY. LAB
		G	Math Pass-Major -SRP	Zoo Pass-MajorB_Th-PAM Pass-MajorB-Th/Prac Math Pass-Major –SJ BOT MJ, UKK, L2 Pass-MajorB-Th/Prac Physio-PD	Zoo Pass-MajorA_Prac-PAM Pass-MajorA-Prac BOT MJ SEC, NB, L2 Pass-MajorB-Th/Prac Math	AEC2 Bengali	Pass-Minor C-T/P Math Pass-Minor –SJ BOT MI, X, L1 Physics-Pass-MinorC_Th – SH Pass-Minor C-Th/Prac Physio-PD	Pass-Minor C-P BOT MI NB L2	
	IV	H	Zoo C10T PC GEO C8T IB GEO. LAB C9P (Phys) - AP	Zoo C10P PC C8T-Chem_Org L /BS V Math C10T-F.Annex-SRP GEO C9T SM2 GEO. LAB BOT C8T NB L3 C9P (Phys) - AP	Zoo C9P PD C8P-Chem_Org L /BS Math C9T-F.Annex-SJ GEO C10P IB GEO. LAB. BOT C10T AC L3 C8T (Phys) - AIM	Zoo C9P PD C8P-Chem_Org L /BS Math C8T-F.Dept-SP GEO C10P IB GEO. LAB. BOT C10T AC L2 C9T (Phys) - AP	Zoo GE4 T PC Zoo Lab GE4T-Chem_Org L/SMA BOT GE -4T NB L3 GE4T (Phys)-Dept. Annex.- TK	Zoo GE4 P PC Zoo Lab C10T-Chem_Org L/SMA Math C8T-F.Dept-SP BOT C10T BH L3 C9P (Phys) - SH	C10T-Chem-Org L/SMA Math Sec2-Comp Lab-AR BOT SEC 2T BH L3 C9P (Phys) - SH
		G	DSD3T- Chem_Iorg L/SMA	DSC1D/2D/3DT - (Phys) – SH		DSD3P-Chem L/BKM BOT SEC 2T NB L2	DSD3P-Chem L/BKM		DSC1D/2D/3DT - (Phys)-SD
	VI	H	BOT DSE 3P AC L3	DSE 3T-Chem-ComL/SMA GEO DSE-4T MMM S7	Zoo DSE2 T PC C14P-Chem_Phy L /SB GEO DSE-3T SM2 PHY.	Zoo C14T PAM C14P-Chem_Phy L /SB GEO DSE-3T SM S7	Zoo C14T PAM DSE4T-Chem_Org L/SB	Zoo C14P PAM C14T-Chem_Phys L/SB	Zoo C14P PAM C13T-Chem_Gen L/BKM

				BOT DSE 3P AC L3 C14T (Phys) - AIM	LAB. BOT C14T UKK L1 DSE4T (Phys) - SH	BOT C14T UKK L1 C13T (Phys) - TK	GEO C14P IB COM. LAB BOT DSE4T BH L1 C14P (Phys) - AIM	GEO C14P IB COM. LAB C14P (Phys) - AIM	GEO SAL SM GEO. LAB. BOT DSE3T PG L2
		G		Zoo Hons-Major-Th-RKK	Zoo Hons-Major-Prac-RKK		Zoo Hons-Minor-Th-RKK BOT DSE2BT PG L2	Zoo Hons-Minor-Prac- RKK	BOT SEC4T NB L2

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
WED	II	H	SAL SM2 PHY. LAB BOT MJ, SEC, PG, L1	Zoo Hons-Major-Th-PC Hons-Major-Th Math Hons-Major SP GEO MAJOR 2P SD GEO. LAB. BOT MJ, SKD, L1 Physics-Hons-Major-Th-AIM	Zoo Hons-Minor-Prac-PC Hons-Minor-Th/BS GEO MAJOR 2P SD GEO. LAB. BOT MI, SKD, L1 Physics-Hons-Minor-Th-AIM	Hons-MDC-Th	Hons-VAC02-Th	Hons-CS-P	Hons-CS-P
		G	Math Pass-Major -SP	Pass-Major B –Th BOT MJ, NB, L2 Pass-Major B-Th/Prac Physio-PD	Pass-Minor C-Th BOT MI, NB, L2 Physics-Pass-MinorC_Th – SD Pass-Minor C-Th/Prac Physio-PD	Pass-MDC-Th	Pass-VAC02-Th	Pass-CS-P	Pass-CS-P
	IV	H	C9P-Chem- Iorg L/MS GEO C8T SD GEO. LAB. SEC2P (Phys) - SD	C9P-Chem- Iorg L/MS GEO C9T SM2 GEO.LAB. BOT C10P AC L3 SEC2P (Phys) - SD	C8T-Chem- Iorg L/SB BOT C10PAC L3 C9T (Phys) - SH	C10T-Chem- Org L/SMA GEO C10P SD GEO LAB. BOT C9T SKD L2 C10T (Phys) – AP Zoo-C9T-PD	Zoo SEC2 T RKK GE4T-ChemL/MS BOT C10P NB L3 BOT GE 4P SKD L1 GE4T (Phys)-Electric. Lab – SD GE3T-Lab-PD	C9T-Chem- Iorg L/MS BOT C10P NB L3	Zoo GE4 P PC Zoo Lab C9T-Chem- Iorg L/MS REMEDIAL CLASS SLOW/ADVANCE
		G		DSC1D/2D/3DT - (Phys) - SH		DSD3T- Chem- Iorg L/BS	BOT DSC 2DP AC L1	DSC1D/2D/3DP - (Phys) - SD	DSC1D/2D/3DP-(Phys) - SD
	VI	H	BOT DSE4T SKD L1	Zoo DSE4T RKK BOT C14P BH L2 DSE3T (Phys) - AP	Zoo DSE4T RKK BOT C14P BH L2	Zoo DSE4P PC BOT DSE4P PG L1 C14T (Phys) - SD	Zoo DSE4P PC BOT DSE 4P PG L2 DSE4T (Phys) - AIM	Zoo DSE3P PC	C14T (Phys) - AIM
		G		Zoo Hons-Major-Th-PC DSE3P-Chem_Phy L/SMA	Zoo Hons-Minor-Prac-PC DSE3P-Chem_Phy L/SMA	DSE4T-Chem_Com L/SB GEO DSE-3T SM2 S7	C14P-Chem_Phy L/SB GEO SAL IB PHY. LAB.	C14P-Chem_Phy L/SB GEO C13T IB S7	DSE3T-Chem_Phy L/SMA

				BOT DSE2BP, PG L2	GEO DSE-4T IB S7 BOT DSE2BP, PG L1				

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
THURS	II	H	ADD ON COURSE	Zoo Hons-Major-Th-RKK Hons-Major-Th/Prac/BKM Math Hons-Major SRP GEO SEC-2 IB GEO. LAB BOT MJ, BH, L1	Zoo Hons-Major-Prac-RKK Hons-Major-Prac/BKM Math Hons-Major SJ GEO. SEC-2 SD GEO. LAB BOT, MJ, NB, L1	Hons-Minor-Th/Prac/MS GEO SAL SD S7 BOT MI, BH, L1 Physics-Hons-Minor-Th-AIM Hons-Minor -Th/Prac Physio-PD	Zoo Hons-Minor-Prac-RKK Hons-Minor-Prac/MS GEO SEC-2 IB PHY. LAB BOT MI, AC, L1	Zoo Hons-SEC2-Prac- BM Hons-SEC2-Th/BS Math Hons-Sec2 Pr SJ GEO SAL MMM PHY. LAB BOT MJ, SEC, NB, L1 Physics-Hons-SEC2-Prac-AIM	Physics-Hons-SEC2-Prac-AIM
		G		Pass-MajorB-Th/Prac Math Pass-Major –AR BOT MJ, NB, L2 Pass-Major B-Th/Prac Physio-PD	Pass-MajorA-Prac BOT MJ BH, L2	Pass-MinorC-Th/Prac BOT MI, AC, L2 Physics-Pass-MinorC_Prac-TK	Pass-MinorC-Prac Math Pass-Minor –SRP BOT MI PG L2 Physics-Pass-MinorC_Prac-TK Pass-Minor C- Prac Physio-PD	Pass-SEC2-Th BOT MJ SEC AC L2 Pass SEC-2 Th-Physio- PD	Math Pass-Major -SJ
	IV	H	Zoo C8T PAM C10P (Phys) - AP	Zoo C8P PAM C10P-Chem_Phy L/SMA GEO C9T SD PHY. LAB. BOT SEC PG L3 C10P (Phys) - AP Zoo C10T SKK	Zoo C9T PD C10P-Chem_Phy L/SMA BOT C9T SKD L3 C9T (Phys) - AP Zoo-C9T-PD	C8T-Chem_Inorg L/BS GEO C8T IB PHY. LAB. BOT C8T NB L2 C9T (Phys) - SH	C9T-Chem_Iorg L/BKM BOT C8P UKK L3 C10T (Phys) - AP	Zoo GE4 T PAM Zoo Lab GE4P-Chem_Iorg L/BKM BOT C8P UKK L3 BOT GE4P BH L2 GE4P (Phys)-Electric. Lab - AP	Zoo GE4 P PAM Zoo Lab GE4P-Chem_Iorg L/BKM GEO C10T IB GEO LAB. BOT GE4P BH L2 GE4P (Phys)-Electric. Lab - AP
		G	DSD3P-Chem_L/MS	DSD3P-Chem_L/MS		DSD3T-Chem/BKM BOT DSC-2DT SKD L3			
	VI	H	DSE4T (Phys) - SH	GEO DSE-4T MMM S7 BOT C14P UKK L2 C14P (Phys) - AIM	Zoo C13T PAM C13T-Chem_Iorg L/MS GEO C13T IB PHY.	Zoo C13P PAM DSE4P-Chem_Org L/SMA	Zoo C14T PAM DSE4P-Chem_Org L/SMA	DSE4T-Chem_Comp L/SMA GEO C14T SD GEO. LAB	C13T-Chem_Org L/MS GEO SAL MMM PHY. LAB BOT DSE3T AC L1

					LAB BOT C14P UKK L2 C14P (Phys) - AIM	GEO C14P MMM COM. LAB BOT DSE 3T PG L1 DSE3T (Phys) - AP	GEO C14P MMM COM. LAB BOT C13T NB L1 C14T (Phys) - AIM	BOT DSE4T PG L2 C13T (Phys) - TK	
		G							

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
FRI	II	H	ADD ON COURSE	AEC2-Bengali	Zoo Hons-SEC2-Prac-BM Hons-SEC2-Th/BS Math Hons-Sec2 Pr AR Physics-Hons-Major-Th-AIM	Hons-MDC-Th	Hons-CS-Prac Physics-Hons-CS-Pr-SD	Hons-CS-Prac Physics-Hons-CS-Pr-SD	BOT REMEDIAL CLASS SLOW/ADVANCE L.
		G		AEC2-Bengali	Pass-SEC2-Th BOT SEC SKD L2	Pass-MDC-Th	Pass-CS-Prac	Pass-CS-Prac Physio-SKK	
	IV	H	SEC2T-Chem_Comp L/BS C8P (Phys) - AIM	Zoo C8T PAM C9T-Chem_Iorg L/BKM GEO C8T IB PHY. LAB BOT C8T UKK L1 C8P (Phys) - AIM	Zoo C8P PAM C9T-Chem_Iorg L/BKM GEO. C9T SD PHY. LAB BOT C9T PG L1 Zoo-C9T-PD	Zoo C9T SKK C10T-Chem_Org L/SMA GEO C10T IB S7 BOT GE4P NB L1 C8T (Phys) - TK Zoo-C10T-SKK	GE4T-Chem_Iorg L/SB BOT C10T NB L1 BOT GE4T BH L3 GE4T (Phys)-Gen. Lab - AIM GE3T-Lab-PD	Zoo GE4 T RKK Zoo Lab SEC2P-Chem_Iorg L/SB BOT GE 4T BH L3 C10T (Phys) - AIM	Zoo GE4 P PC Zoo Lab SEC2P-Chem_Iorg L/SB GEO SEC-2 T SD GEO. LAB BOT C9P, PG, L1
		G		BOT DSC2DT SKD L3		BOT DSC2DP SKD L3 DSC1D/2D/3DT - (Phys) - SD	BOT SEC 2T, SKD L3		
	VI	H	DSE3T-Chem_Org L/SMA BOT C13T, NB, L2 DSE3P (Phys) - TK	Zoo C13T PC GEO SAL SD S7 DSE3P (Phys) - TK	Zoo C13P PC C14T-Chem_Phy L/SB GEO C13T IB PHY. LAB BOT DSE4P BH L2 DSE4P (Phys) - AP	Zoo C13T PC DSE4T-Chem_Phy L/SB GEO C13T SD GEO. LAB BOT DSE4P BH L2 DSE4P (Phys) - AP	Zoo C14T PAM GEO. DSE-3T SM GEO. LAB C13T (Phys) - TK	Zoo C14P PAM DSE3P-Chem_Org L/SMA GEO DSE-4T IB GEO. LAB BOT C13P NB L2 C13P (Phys) - AP	DSE3P-Chem_Org L/SMA BOT C13P NB L2 C13P (Phys) - AP
		G			BOT DSE 2BT UKK L2		BOT DSE2BT, PG, L2		

DAY	SEM		10-11	11-12	12-1	1-2	2-3	3-4	4-5
SAT	II	H		Hons-VAC02-Th	Hons-MDC-Th	GEO SAL SM2 PHY. LAB			
		G		Pass-VAC02-Th	Pass-MDC-Th				
	IV	H	Zoo-C10P-SKK	Zoo C9P SKK C10P-Chem_Org L/SMA GEO C9T SD S7 BOT C9T PG L1 C8T (Phys) - AIM Zoo-C10P-SKK	Zoo C9T PD C10P-Chem_Org L/SMA GEO C10T MMM GEO. LAB. BOT C8P NB L1 Zoo C9T-PD	GE4T-Chem_Org L/SB GEO C8T SD GEO LAB BOT C8P NB L1 GE4T (Phys)-Gen. Lab - AIM GE3-T-LAB-PD			
		G							
	VI	H	GEO DSE 4T MMM GEO LAB DSE4P (Phys) - SD	Zoo DSE 3T RKK C13P-Chem_Iorg L/BKM GEO C14T SM GEO LAB BOT C13T UKK L2 DSE4P (Phys) - SD	Zoo DSE 3T RKK C13P-Chem_Iorg L/BKM GEO C13T SD S7 BOT DSE3P PG L2 DSE4T (Phys) - AIM	Zoo DSE 4T PC DSE3T-Chem_Org L/SMA GEO DSE3T SM S7 BOT DSE3P PG L2 DSE3T (Phys) - TK	Zoo DSE 4P PC		
		G	BOT DSE2BT UKK L3	Zoo DSE 2AT PAM	Zoo DSE 2AP PAM BOT DSE2BP UKK L3	Zoo SEC 2T PAM BOT DSE 2BP UKK L3			

NARAJOLE RAJ COLLEGE

(NAAC Accredited B Grade Govt. – Aided College)

NARAJOLE: PASCHIM MEDINIPUR: PIN-721211

Academic Committee

Notice

Dated: 02.11.2020

Notice is hereby given that an urgent online meeting of Academic Committee will be held on 02.11.2020 (Monday) at 09-00 PM in Google Meet Virtual Platform to discuss the following agenda. Please make it convenient to attend the meeting.

Agenda:

1. To read and confirm the proceedings of the last meeting held on 10.06.2020;
2. To discuss regarding academic preparedness (i.e., preparing of academic calendar, class routine, Distribution of syllabus, Teaching plans etc.) of the departments for the session 2020-21.
3. To discuss issues relating UG admission for the Academic Session 2020-21;
4. Misc., if any, with the permission of the Chair.

(Dr. Anupam Parua)
Principal

(Dr. Dipak Shom, Convenor)
Academic Committee

Principal
Narajole Raj College
Narajole-721211

Copy forwarded for information and necessary action to:

(1) Dr. Tanuka Acharya (HOD, Philosophy)
(2) Dr. Rajasree Debnath (HOD, Political Science)
(3) Dr. Nilanjana Bhattacharyya (HOD, Bengali)
(4) Prof. Baisali Guha ((HOD, History)
(5) Prof. Soma Debray (HOD, English)
(6) Prof. Anustup Chattapadhyaya (HOD, Sanskrit)
(7) Dr. Uttam Kumar Kanp (HOD, Botany)
(8) Dr. Tapanendu Kamilya (HOD, Physics)
(9) Prof. Barun Kumar Mondal (HOD, Chmistry)
(10) Dr. Sukamal Maity (HOD, Geography)
(11) Dr. Ranajit Kumar Khalua (HOD, Zoology)
(12) Dr. Akul Rana (HOD, Mathematics)
(13) Prof. Pratim Maity (HOD, Education)
(14) Prof. Parimal Dua (HOD, Physiology)
(15) Dr. Atanu Nanda (HOD, Physical Education)
(16) Dr. Mangal Kumar Nayak (Co-opted Member)

NB: Link for the said meeting will be shared in due course.

Proceedings of the meeting of the Academic Committee held on 02.11.2020 (Friday) in the Google Meet Virtual Platform with Meeting ID: aek-auty-ffh
Meeting 02 of Academic session 2020-21

The meeting was chaired by Dr. Anupam Parua, the Principal of the College and Chairman of the Academic Committee. Detailed discussions took place on the noted agenda and the following resolutions were adopted:

1. The proceedings of the last meeting of the committee held on 10.06.2020 were read and confirmed without any amendment.

2. Members discussed at length regarding academic preparedness of the departments at the beginning of the session. Dr. Dipak Shom, convenor of the committee placed the **Academic Calendar** (tentative) of the session 2020-21 and the calendar is adopted in principle by the members. Here, honorable Principal added that as the session is going through the period of lock down and affiliating university not yet send the university academic calendar. So, the adherence of the calendar may be changed if any exigency is informed by the affiliating university. Dr. Dipak Shom, convenor of the committee reported the members that as per instruction of the honorable Principal classes of semester III and V were commenced from 14.09.2020. As the admission procedure is going on, the Classes of Semester I is expected to be commenced from the second week of December.
Honorable Principal here enquired about the preparedness of the departments regarding their academic services. Dr. T. Kamilya, HoD of Physics, informed that central routine of the session 2020-21 is circulated to the HoDs through their departmental domain email ids and as the session is going through the online classes so, the HoDs are requested to finalized their Video conferencing class (VCC) routines for their respective departments with the conformity of the central routine. Honorable Principal added that weekly VCC routine must be circulated in the students' WhatsApp groups for the convenience of the students. Besides that, HoDs may update and rectify their distribution of syllabus as per requirement of VCC classes; preparing of teaching plans must be checked and completed. Honorable Principal also gave emphasis on preparing of e -learning materials for the students. He explained that as library is closed due to lockdown so departments have to give importance on preparing of e -materials as to assist the students by all means. He also mentioned that for the preparing of the e materials teachers have to give priority on final year (Semester V & VI) courses. He proposed to do the activity in a time bound manner for the smooth completion of the syllabus. Members affirmed with him regarding the matter and assured the Head of the Institution regarding departmental preparedness.

Proceedings of the meeting of the Academic Committee held on 02.11.2020 (Friday) in the Google Meet Virtual Platform with Meeting ID: aek-auty-ffh
Meeting 02 of Academic session 2020-21

3. The notification regarding admission of students in more than one colleges issued by the Inspector of Colleges, Vidyasagar University wherein the IC earnestly requested to collect declaration from the admitted students regarding their admission status in more than one colleges indicating therein the choice of any one college surrendering the other seats for the purpose of registration by the university, within six days from the date of issuance of the notification, failing which, the registration of the studentship will be denied / cancelled by the University was discussed at length. After adequate discussion it was resolved that a declaration form in this regard would be developed in consultation with the technology provider of the college, namely M/S Affinity Infosoft. Further resolved that the Joint Convenors of the Technology Sub-committee be requested to take all the necessary measures to execute such declaration so that the report as desired by the IC, VU be tendered within stipulated time i.e., 09.11.2020 (FN)

With no other business left to be transacted the meeting ended with vote of thanks to and from the Chair.

Dr. Anupam Parua
(Chairman)

Principal
Narajole Raj College
Narajole-721211

NARAJOLE RAJ COLLEGE

(NAAC Accredited B Grade) Government Aided College

NARAJOLE: PASCHIM MEDINIPUR: PIN-721211

Departmental Meeting

DEPT.OF MATHEMATICS

Notice

Dated: 14.08.2020

An urgent meeting of the Dept. of Mathematics will be held on 16.08.2020 (Sunday) at 10.00 Hrs.via google meet. Please make it convenient to attend the meeting.

Agenda:

1. Read and confirm the proceedings of the last meeting.
2. To discuss regarding the departmental Webinar.
3. Distribution of the syllabus different papers of 1st, 3rd and 5th Semester.
4. To discuss on the routine of the faculties and it's follow up.
5. Discuss about the routine of VC classes of 3rd and 5th semester.
6. Miscellaneous, if any, with the permission of the chair.

Signature of the Chairman

(Dr. Anupam Parua)

Principal
Narajole Raj College
Narajole-721211

Signature of the Convenor

(Dr. Akul Rana (HOD))

Members:

1. *Dr. Shreyasi Jana*
2. *Prof. Shilpa Patra*
3. *Prof. Siburam Paira*
4. *Prof. Puja Paul*

Proceedings of the meeting of the Departmental Committee (Mathematics) held on 16-08-2020 (Sunday) via VC with ID - https://meet.google.com/ yao-gafm-cng

In Attendance:

1. Dr. Anupam Parua - Principal & Chairman
2. Dr. Akul Rana - HoD & Convenor
3. Dr. Shreyasi Jana - Member
4. Prof. Shilpa Patra - Member
5. Prof. Siburam Paira - Member
6. Prof. Puja Paul - Member

The meeting was chaired by Dr. Anupam Parua, the Principal of the College and Chairman of the concerned Departmental Committee. Detailed discussions took place on the noted agenda and the following resolutions were adopted:

1. The Proceeding of the last meeting held on 22-06-2020 via online was read and confirmed without any amendment.
2. The national webinar entitled "Recent advances in Pure and Applied Mathematics" organized by Department of Mathematics, Narajole Raj College on 10-11 July, 2020 was completed successfully. The HOD thanks all the departmental teachers and the college authority for the co-operation in the webinar.
3. The HOD informed the house that the classes of odd semesters will be commence on shortly and therefore syllabus distribution among the teachers is necessary. After adequate discussion the syllabus is distributed as follows.

Class	Paper Name	Name of Teacher
Sem-I	C1T	Unit-I, II, IV-Dr Akul Rana Unit-III-Prof. Siburam Paira
	C2T	Unit-I, II, -Dr Shreyasi Jana Unit-III, IV-Prof. Shilpa Patra
	GE1T	Unit-I, II,-Dr Shreyasi Akul Rana Unit-III, IV-Prof. Siburam Paira
	DSC1AT	Upto Tracing of Curves-Dr. Shreyasi Jana Rest part-Prof Puja Paul
Sem-III	C5T	Unit-I, II, -Dr Shreyasi Jana Unit-III, IV-Prof. Shilpa Patra
	C6T	Unit-I, II-Dr Shreyasi Jana Unit-III-Prof. Puja Paul Unit- IV-Prof. Shilpa Patra

Proceedings of the meeting of the Departmental Committee (Mathematics) held on 16-08-2020 (Sunday) via VC with ID - https://meet.google.com/ yao-gafm-cng

	C7T &C7P	Unit-I, II, III, IV -Prof. Siburam Paira Unit-V, VI -Prof. Puja Paul C7P -Dr. Akul Rana
	SEC1T	Dr. Akul Rana
	GE3T	Unit-I-Prof. Siburam Paira Unit-II, III, IV-Prof. Puja Paul
Sem-V	C11T	Unit-I, II, III -Dr Shreyasi Jana Unit- IV-Prof. Shilpa Patra
	C12T	Unit-I, II, III - Prof. Shilpa Patra Unit IV- Dr Shreyasi Jana
	DSE1T (LPP)	Unit-I, II-Dr. Akul Rana Unit-III-Prof Puja Paul
	DSE2T (Probability & Statistics)	Unit-I, II-Prof Siburam Paira Unit-III, IV-Prof. Puja Paul

4. The Head of the Department proposed a draft of ***Class Routine (CR)*** of odd semester for individual teachers of the department and the Combined Class Routine of the Mathematics Department as per ***Distribution Chart (DC)*** for different papers. After adequate discussion the routines were adopted with the incorporation of the amendments suggested by the members present in the meeting. It is unanimously resolved that the classes will be held as per the finalized routine after the commencement of classes by Vidyasagar University.
5. The HOD informed that as per decision of the Academic committee of the college the online class of the 3rd and 5th semester is to be start from 14.09.2020 and requested the members to express their opinion on a proposed routine for VC classes. After due discussion, it is resolved that two classes/ day from 11 am to 1 pm will be held for each semester (except sun day) and the routine is approved. The principal asked the teachers to develop sufficient number of quality e-material so that students are able to understand the subject.

As there was no further agenda for discussion, the meeting ended with a reciprocal vote of thanks to and from the Chair.

CHAIRMAN
(DR. ANUPAM PARUA)

Principal
Narajole Raj College
Narajole-721211

Narajole Raj College

Affiliated by Vidyasagar University

Accredited : Grade B by NAAC

Estd.-1966

MASTER ROUTINE -SESSION-2020-2021-SEMESTER-I, III, V (ARTS)

Day	Sem	10.00-11.00	11.00-12.00	12.00-01.00	01.00-02.00	02.00-03.00	03.00-04.00	04.00-05.00
Monday	**I (H)**		C1T-Beng-SH (SCP) C1T-Eng-G3 (TG) C1T-San-G7 (AC) C1T-Phil-S3 (BM) C1T-His-S4 (BS) C1T-Pol.Sc-S5 (RD)	C2T-Beng-SH (MA) C2T-Eng-G7 (SDR) C2T-San-G3 (TR) C2T-Phil-S3 (ST) C2T-His-S4 (UC) C2T-Pol.Sc-S5 (BR)	GE1T-Beng-SH (DR) GE1T-Eng-S1 (SK) GE1T-San-S2 (KS) GE1T-Phil-S3 (BM) GE1T-His-G7 (UC) GE1T-Pol.Sc-S5 (XXX) GE1T-Edu-LRR (SIA)			
	I (G)	DSC1AT/2AT-Phy.Edu-A1 (AN) DSC1AT/2AT-San-A2 (TR)	DSC1AT/2AT-Phil-A6 (AG) DSC1AT/2AT-His-S2 (MKN)	AECC1T Core (ENG-I)	DSC1AT/2AT-Pol.Sc-TR (XXX)	DSC1AT/2AT-Phy.Edu-A8 (AN) DSC1AT/2AT-San-A5 (BB)	DSC1AT/2AT-Beng-G6 (MA)	DSC1AT/2AT-Edu-SH (SMA) DSC1AT/2AT-Eng-G1 (MM)
	III (H)		C5T-Beng-G6 (MA) C5T-Eng-G5 (SDR) C5T-San-G4 (BB) C5T-Phil-S1 (ST) C5T-His-G1 (UC) C5T-Pol.Sc-F. Annex (BR)	C6T-Beng-F5 (GJ) C6T-Eng-G5 (MM) C6T-San-G4 (KS) C6T-Phil-S2 (BM) C6T-His-G1 (BG) C6T-Pol.Sc-F. Annex (PS)	C7T-Beng-G6 (SCP) C7T-Eng-G5 (TG) C7T-San-G4 (US) C7T-Phil-S6 (ST) C7T-His-G1 (MKN) C7T-Pol.Sc-S7 (PS)	GE3T-Beng-SH (SP) GE3T-Eng-G5 (XXX) GE3T-San-G4 (AC) GE3T-Phil-G3 (XXX) GE3T-His-G1 (BS) GE3T-Pol.Sc-S6 (BR) GE3T-Edu-LRR (SMA)	SEC1T-Beng-SH (NB) SEC1T-Eng-G5 (SDR) SEC1T-San-G4 (KS) SEC1T-Phil-G3 (AG) SEC1T-His-G1 (MKN) SEC1T-Pol.Sc-S7 (RD)	

	III (G)	DSC1CT/2CT-Edu-LRR (SIA) DSC1CT/2CT-Eng-A4 (MB)	DSC1CT/2CT-Phy.Edu-TR (AN) DSC1CT/2CT-San-S6 (US)	AECC3T Core (ENG-II)-S1 (SK)	DSC1CT/2CT-Phy.Edu-TR (PKM) DSC1CT/2CT-San-S4 (BB)	DSC1CT/2CT-Phil-A4 (ST) DSC1CT/2CT-His-S2 (UC)	DSC1CT/2CT-Pol.Sc-S2 (PS) DSC1CT/2CT-Beng-G7 (AC)	SEC1T-Beng-G7 (GJ) SEC1T-Eng-G5 (MB) SEC1T-San-G4 (AB) SEC1T-Phil-G3 (XXX) SEC1T-His-G6 (BS) SEC1T-Pol.Sc-S4 (BR) SEC1T-Edu-A2 (SIA) SEC1P-Phy.Edu-Field (AN)
	V (H)		DSE2T-Beng-LRR (NB) DSE2T-Eng-A1 (SK) DSE2T-San-A2 (AB) DSE2T-Phil-A3 (XXX) DSE2T-His-A4 (BG) DSE2T-Pol.Sc-TR (XXX)	C12T-Beng-LRR (SCP) C12T-Eng-A1 (MB) C12T-San-A2 (US) C12T-Phil-A3 (AG) C12T-His-A4 (MKN) C12T-Pol.Sc-S6 (RD)	C11T-Beng-G3 (GJ) C11T-Eng-A1 (SDR) C11T-San-A2 (AC) C11T-Phil-A3 (AG) C11T-His-A4 (BG) C11T-Pol.Sc-TR (RD)	DSE1T-Beng-G7 (DR) DSE1T-Eng-S1 (TG) DSE1T-San-G6 (TR) DSE1T-Phil-S3 (BM) DSE1T-His-S4 (BG) DSE1T-Pol.Sc-F. Annex (PS)	DSE2T-Beng-LRR (GJ) DSE2T-Eng-G7 (SK) DSE2T-San-S2 (US) DSE2T-Phil-S3 (ST) DSE2T-His-S4 (BG) DSE2T-Pol.Sc-S5 (BR)	
	V (G)	GE1T-Beng-SH (DR) GE1T-Eng-G5 (XXX) GE1T-San-G4 (KS) GE1T-Phil-G3 (XXX) GE1T-His-G1 (MKN) GE1T-Pol.Sc-G7 (XXX) GE1T-Edu-G6 (SMA) GE1T-Phy.Edu-A3 (PKM)	DSE1AT/2AT-His-A5 (XXX)	DSE1AT/2AT-Pol.Sc-TR (XXX)	DSE1AT/2AT-Phy.Edu-A5 (AN) DSE1AT/2AT-San-A6 (XXX)	DSE1AT/2AT-Phil-S5 (AG)	DSE1AT/2AT-Pol.Sc-S1 (XXX) DSE1AT/2AT-Beng-A4 (DR)	SEC3T-Beng-LRR (AC) SEC3T-Eng-G5 (XXX) SEC3T-San-S4 (BB) SEC3T-Phil-S3 (BM) SEC3T-His-S1 (UC) SEC3T-Pol.Sc-S2 (XXX) SEC3T-Edu-G7 (XXX) SEC3T-Phy.Edu-A1 (PKM)

Tuesday	**I (H)**			C1T-Beng-SH (DS) C1T-Eng-G7 (PPM) C1T-San-G5 (TJ) C1T-Phil-S2 (BM) C1T-His-G4 (BG) C1T-Pol.Sc-S1 (SS)	GE1T-Beng-SH (NB) GE1T-Eng-G7 (MM) GE1T-San-G5 (BB) GE1T-Phil-S1 (BM) GE1T-His-G4 (MKN) GE1T-Pol.Sc-S6 (PS) GE1T-Edu-A8 (PM)	C2T-Beng-SH (AC) C2T-Eng-G7 (MM) C2T-San-G5 (TR) C2T-Phil-S4 (ST) C2T-His-S5 (MKN) C2T-Pol.Sc-S3 (BR)	AECC1T Elective ENG-SH (MB)	
	I (G)	DSC1AT/2AT-His-G7 (UC) DSC1AT/2AT-Phil-S6 (XXX)	DSC1AP/2AP-Phy.Edu-Field (PKM)	DSC1AT/2AT-San-S3 (AC) DSC1AP/2AP-Phy.Edu-Field (AN)	DSC1AT/2AT-Beng-G1 (GJ) DSC1AT/2AT-Pol.Sc-TR (SS)	DSC1AT/2AT-Edu-A6 (PM) DSC1AT/2AT-Eng-A5 (TG)	AECC1T Elective BENG- G6 (DR)	AECC1T Core (ENG-I)-SH (PPM)
	III (H)		C6T-Beng-SH (AC) C6T-Eng-G6 (SDR) C6T-San-G1 (KS) C6T-Phil-S4 (BM) C6T-His-S5 (MKN) C6T-Pol.Sc-S6 (SS)	C7T-Beng-LRR (GJ) C7T-Eng-G3 (TG) C7T-San-G6 (TR) C7T-Phil-F5 (AG) C7T-His-S5 (NS) C7T-Pol.Sc-S6 (PS)	C5T-Beng-G3 (DR) C5T-Eng-S2 (SDR) C5T-San-S3 (RNM) C5T-Phil-S4 (TA) C5T-His-S5 (BPJ) C5T-Pol.Sc-F5 (RD)	GE3T-Beng-LRR (SCP) GE3T-Eng-A8 (XXX) GE3T-San-G1 (AB) GE3T-Phil-G3 (AG) GE3T-His-G4 (BPJ) GE3T-Pol.Sc-S6 (PS) GE3T-Edu-G6 (SMA)		
	III (G)	DSC1CT/2CT-His-S1 (BG) DSC1CT/2CT-Phil-S2 (ST)	AECC3T Core (ENG-II)-A2 (PPM)	DSC1CP/2CP-Phy.Edu-Field (PKM)	DSC1CT/2CT-San-A3 (US) DSC1CP/2CP-Phy.Edu-Field (PKM)	DSC1CT/2CT-Beng-S2 (MA) DSC1CT/2CT-Pol.Sc-S7 (RD)	DSC1CT/2CT-Edu-G1 (PM) DSC1CT/2CT-Eng-G3 (MM)	SEC1T-Beng-LRR (GJ) SEC1T-Eng-G5 (SDR) SEC1T-San-S4 (US) SEC1T-Phil-S3 (AG) SEC1T-His-S1 (NS) SEC1T-Pol.Sc-S2 (SS) SEC1T-Edu-G7 (PM) SEC1P-Phy.Edu-Field (AN)
	V (H)		C11T-Beng-LRR (GJ) C11T-Eng-G7 (MM) C11T-San-G5 (BB) C11T-Phil-S1 (TA) C11T-His-G4 (BG) C11T-Pol.Sc-S3 (RD)	C12T-Beng-G6 (DR) C12T-Eng-G1 (MB) C12T-San-A1 (KS) C12T-Phil-A2 (ST) C12T-His-A3 (UC) C12T-Pol.Sc-S7 (BR)	DSE2T-Beng-G6 (DS) DSE2T-Eng-LRR (PPM) DSE2T-San-A1 (AC) DSE2T-Phil-A2 (ST) DSE2T-His-A3 (BG) DSE2T-Pol.Sc-A4 (BR)	DSE1T-Beng-F5 (DS) DSE1T-Eng-S1 (SDR) DSE1T-San-A1 (RNM) DSE1T-Phil-A2 (BM) DSE1T-His-A3 (BG) DSE1T-Pol.Sc-A4 (SS)		

	V (G)	GE1T-Beng-LRR (MA) GE1T-Eng-G5 (XXX) GE1T-San-G4 (AC) GE1T-Phil-G3 (XXX) GE1T-His-G1 (BPJ) GE1T-Pol.Sc-A1 (XXX) GE1T-Edu-A2 (SMA) GE1T-Phy.Edu-A3 (AN)	DSE1AT/2AT-Phy.Edu-G3 (AN) DSE1AT/2AT-San-A5 (TJ)	DSE1AT/2AT-Pol.Sc-TR (XXX)	DSE1AT/2AT-San-A5 (TR) DSE1AT/2AT-Phy.Edu-TR (AN)	DSE1AT/2AT-Edu-A7 (SIA) DSE1AT/2AT-Eng-F. Annex (XXX)	DSE1AT/2AT-Beng-G7 (SCP)	SEC3T-Beng-G7 (AC) SEC3T-Eng-G5 (XXX) SEC3T-San-G4 (BB) SEC3T-Phil-G3 (BM) SEC3T-His-G6 (BPJ) SEC3T-Pol.Sc-S4 (XXX) SEC3T-Edu-A2 (SMA) SEC3T-Phy.Edu-A1 (PKM)
Wednesday	**I (H)**			C2T-Beng-SH (GJ) C2T-Eng-S3 (MB) C2T-San-S2 (US) C2T-Phil-A3 (AG) C2T-His-S4 (UC) C2T-Pol.Sc-S5 (SS)	GE1T-Beng-SH (DS) GE1T-Eng-G7 (MM) GE1T-San-G5 (KS) GE1T-Phil-A1 (TA) GE1T-His-G4 (BG) GE1T-Pol.Sc-Geo. Annex (PS) GE1T-Edu-S6 (SIA)	C1T-Beng-SH (SCP) C1T-Eng-G1 (PPM) C1T-San-G3 (TJ) C1T-Phil-S3 (TA) C1T-His-S4 (BG) C1T-Pol.Sc-S5 (RD)		
	I (G)	DSC1AT/2AT-Edu-A4 (SMA) DSC1AT/2AT-Eng-G7 (MM)	DSC1AP/2AP-Phy.Edu-Field (AN) DSC1AT/2AT-San-S1 (TR)	DSC1AP/2AP-Phy.Edu-Field (PKM)	DSC1AT/2AT-Phil-A5 (XXX)	AECC1T Core (ENG-I)-LRR (MM)	DSC1AT/2AT-His-G7 (NS)	DSC1AT/2AT-Pol.Sc-A1 (RD) DSC1AT/2AT-Beng-G7 (MA)
	III (H)		C5T-Beng-SH (DR) C5T-Eng-G5 (SDR) C5T-San-G4 (RNM) C5T-Phil-S3 (TA) C5T-His-G1 (BS) C5T-Pol.Sc-S2 (RD)	C6T-Beng-G6 (DS) C6T-Eng-G5 (MM) C6T-San-G4 (TJ) C6T-Phil-S6 (XXX) C6T-His-G1 (NS) C6T-Pol.Sc-S7 (PS)	C7T-Beng-LRR (SCP) C7T-Eng-S2 (PPM) C7T-San-S3 (US) C7T-Phil-F5 (AG) C7T-His-S4 (NS) C7T-Pol.Sc-S5 (SS)	GE3T-Beng-G4 (SP) GE3T-Eng-G5 (XXX) GE3T-San-G6 (RNM) GE3T-Phil-G7 (BM) GE3T-His-S2 (BPJ) GE3T-Pol.Sc-S6 (PS) GE3T-Edu-S4 (PM)	C7T-Beng-G6 (GJ) C7T-Eng-G5 (PPM) C7T-San-G4 (TR) C7T-Phil-G3 (XXX) C7T-His-G1 (BS) C7T-Pol.Sc-G7 (PS)	

	III (G)	DSC1CT/2CT-Edu-LRR (SIA) DSC1CT/2CT-Eng-A5 (MB)		AECC3T Core (ENG-II)-LRR (SK)	DSC1CP/2CP-Phy.Edu-Field (AN) DSC1CT/2CT-San-G6 (BB)	DSC1CP/2CP-Phy.Edu-Field (PKM)	DSC1CT/2CT-Pol.Sc-S2 (SS) DSC1CT/2CT-Beng-S1 (AC)	DSC1CT/2CT-Phil-S1 (XXX) DSC1CT/2CT-His-S2 (BG)
	V (H)		C12T-Beng-G6 (DS) C12T-Eng-LRR (PPM) C12T-San-G7 (KS) C12T-Phil-A2 (XXX) C12T-His-G3 (UC) C12T-Pol.Sc-TR (SS)	C11T-Beng-LRR (AC) C11T-Eng-G3 (SDR) C11T-San-A1 (BB) C11T-Phil-A2 (BM) C11T-His-F5 (BPJ) C11T-Pol.Sc-A4 (RD)	DSE1T-Beng-G3 (GJ) DSE1T-Eng-S1 (SDR) DSE1T-San-A1 (TJ) DSE1T-Phil-A2 (BM) DSE1T-His-A3 (BS) DSE1T-Pol.Sc-A4 (XXX)	C12T-Beng-S6 (DS) C12T-Eng-F5 (MB) C12T-San-S3 (US) C12T-Phil-S7 (AG) C12T-His-S5 (UC) C12T-Pol.Sc-S1 (SS)		
	V (G)	GE1T-Beng-SH (DR) GE1T-Eng-G5 (XXX) GE1T-San-G4 (BB) GE1T-Phil-G3 (TA) GE1T-His-G1 (BS) GE1T-Pol.Sc-S2 (XXX) GE1T-Edu-G6 (PM) GE1T-Phy.Edu-A7 (AN)	DSE1AT/2AT-Phil-A4 (AG) DSE1AT/2AT-His-S4 (BG)	DSE1AT/2AT-Edu-G7 (PM) DSE1AT/2AT-Eng-A5 (XXX)	DSE1AT/2AT-His-A6 (UC)	DSE1AT/2AT-Pol.Sc-TR (XXX) DSE1AT/2AT-Beng-A5 (DR)	DSE1AT/2AT-Phy.Edu-A2 (AN) DSE1AT/2AT-San-A3 (RNM)	GE1T-Beng-SH (DS) GE1T-Eng-G5 (XXX) GE1T-San-G4 (TJ) GE1T-Phil-G3 (XXX) GE1T-His-G1 (BPJ) GE1T-Pol.Sc-S2 (XXX) GE1T-Edu-G6 (PM) GE1T-Phy.Edu-G7 (AN)
Thursday	**I (H)**		C2T-Beng-F5 (MA) C2T-Eng-S1 (MM) C2T-San-S2 (AB) C2T-Phil-S3 (ST) C2T-His-S4 (MKN) C2T-Pol.Sc-S5 (PS)	C1T-Beng-SH (SP) C1T-Eng-F5 (PPM) C1T-San-G3 (RNM) C1T-Phil-S3 (TA) C1T-His-S4 (BS) C1T-Pol.Sc-S5 (SS)	GE1T-Beng-SH (DS) GE1T-Eng-S1 (MM) GE1T-San-S2 (BB) GE1T-Phil-S3 (BM) GE1T-His-S4 (MKN) GE1T-Pol.Sc-S5 (PS) GE1T-Edu-G7 (PM)	AECC1T Elective ENG-SH (MB)		
	I (G)	DSC1AT/2AT-Pol.Sc-S3 (XXX) DSC1AT/2AT-Beng-G6 (GJ)	DSC1AT/2AT-San-A8 (BB) DSC1AT/2AT-Phy.Edu-A5 (AN)	DSC1AT/2AT-Phil-A5 (XXX)	DSC1AT/2AT-His-A6 (NS)	AECC1T Elective BENG-S5 (DR)	AECC1T Core (ENG-I)-SH (PPM)	DSC1AT/2AT-Edu-G7 (PM) DSC1AT/2AT-Eng-G6 (MM)

	III (H)		C6T-Beng-G6 (GJ) C6T-Eng-G5 (TG) C6T-San-G4 (TJ) C6T-Phil-G3 (BM) C6T-His-G1 (NS) C6T-Pol.Sc-S6 (BR)	C7T-Beng-G6 (NB) C7T-Eng-G5 (TG) C7T-San-G4 (AB) C7T-Phil-S2 (ST) C7T-His-G1 (MKN) C7T-Pol.Sc-S6 (PS)	C5T-Beng-G6 (MA) C5T-Eng-F5 (SK) C5T-San-G4 (AC) C5T-Phil-S7 (TA) C5T-His-G1 (BS) C5T-Pol.Sc-S6 (SS)	GE3T-Beng-G6 (MA) GE3T-Eng-G5 (XXX) GE3T-San-G4 (AB) GE3T-Phil-G3 (BM) GE3T-His-A3 (BPJ) GE3T-Pol.Sc-A4 (PS) GE3T-Edu-G7 (SMA)	SEC1T-Beng-G6 (NB) SEC1T-Eng-G5 (MB) SEC1T-San-G4 (KS) SEC1T-Phil-G3 (ST) SEC1T-His-G1 (MKN) SEC1T-Pol.Sc-S6 (SS)	
	III (G)	DSC1CT/2CT-Pol.Sc-S1 (SS) DSC1CT/2CT-Beng-LRR (SP)	AECC3T Core (ENG-II)-A6 (MB)	SEC1P-Phy.Edu-Field (PKM)	SEC1P-Phy.Edu-Field (PKM)	DSC1CT/2CT-Edu-S3 (SIA) DSC1CT/2CT-Eng-S2 (MM)	DSC1CT/2CT-San-A1 (US) DSC1CT/2CT-Phy.Edu-A2 (AN)	DSC1CT/2CT-Phil-A1 (ST) DSC1CT/2CT-His-A2 (MKN)
	V (H)		C11T-Beng-SH (AC) C11T-Eng-LRR (SK) C11T-San-A1 (AC) C11T-Phil-A2 (TA) C11T-His-A3 (BPJ) C11T-Pol.Sc-A4 (SS)	DSE1T-Beng-LRR (DS) DSE1T-Eng-S1 (MM) DSE1T-San-A1 (TJ) DSE1T-Phil-A2 (BM) DSE1T-His-A3 (NS) DSE1T-Pol.Sc-A4 (BR)	DSE2T-Beng-LRR (GJ) DSE2T-Eng-S1 (MB) DSE2T-San-A1 (US) DSE2T-Phil-A2 (ST) DSE2T-His-A3 (BPJ) DSE2T-Pol.Sc-TR (BR)			
	V (G)	GE1T-Beng-SH (DS) GE1T-Eng-G5 (XXX) GE1T-San-G4 (AC) GE1T-Phil-G3 (TA) GE1T-His-G1 (NS) GE1T-Pol.Sc-G7 (XXX) GE1T-Edu-A1 (PM) GE1T-Phy.Edu-A2 (AN)	DSE1AT/2AT-Beng-G7 (SP)	DSE1AT/2AT-Pol.Sc-A6 (XXX)	DSE1AT/2AT-His-G6 (XXX)	DSE1AT/2AT-Edu-S6 (PM) DSE1AT/2AT-Eng-A2 (XXX)	DSE1AT/2AT-Phy.Edu-S4 (PKM) DSE1AT/2AT-San-S2 (AC)	DSE1AT/2AT-Phil-S4 (XXX)

Friday	**I (H)**		C2T-Beng-SH (AC) C2T-Eng-S1 (MM) C2T-San-S2 (US) C2T-Phil-S3 (ST) C2T-His-S4 (BS) C2T-Pol.Sc-S5 (BR)	C1T-Beng-SH (DS) C1T-Eng-S1 (TG) C1T-San-F5 (AC) C1T-Phil-S3 (TA) C1T-His-S4 (BG) C1T-Pol.Sc-S5 (RD)	GE1T-Beng-SH (DR) GE1T-Eng-S1 (SK) GE1T-San-G5 (KS) GE1T-Phil-S3 (BM) GE1T-His-G1 (MKN) GE1T-Pol.Sc-S5 (XXX) GE1T-Edu-G7 (PM)			
	I (G)	DSC1AT/2AT-His-G7 (NS) DSC1AT/2AT-Phil-S1 (XXX)	DSC1AT/2AT-Beng-A5 (SP)	DSC1AT/2AT-Pol.Sc-TR (XXX)	DSC1AT/2AT-Phy.Edu-TR (PKM) DSC1AT/2AT-San-G3 (AC)	DSC1AT/2AT-Phil-A5 (TA)	DSC1AT/2AT-Eng-A2 (TG) DSC1AT/2AT-Edu-A3 (SMA)	AECC1T Core (ENG-I)-SH (PPM)
	III (H)		C7T-Beng-G6 (NB) C7T-Eng-G5 (PPM) C7T-San-G4 (TR) C7T-Phil-G3 (XXX) C7T-His-G1 (MKN) C7T-Pol.Sc-S6 (SS)	C6T-Beng-G6 (AC) C6T-Eng-G5 (SDR) C6T-San-G4 (TJ) C6T-Phil-G3 (ST) C6T-His-G1 (MKN) C6T-Pol.Sc-S6 (BR)	C5T-Beng-G6 (SP) C5T-Eng-S2 (SDR) C5T-San-G4 (RNM) C5T-Phil-F5 (ST) C5T-His-S4 (UC) C5T-Pol.Sc-Geo. Annex (RD)	GE3T-Beng-G6 (MA) GE3T-Eng-G5 (XXX) GE3T-San-G4 (RNM) GE3T-Phil-G3 (AG) GE3T-His-G1 (BS) GE3T-Pol.Sc-S6 (SS) GE3T-Edu-G7 (SMA)		
	III (G)	DSC1CT/2CT-His-G5 (BS) DSC1CT/2CT-Phil-G3 (BM)	DSC1CT/2CT-Pol.Sc-TR (XXX)	DSC1CT/2CT-Beng-A5 (SP)	DSC1CT/2CT-Phy.Edu-A5 (AN) DSC1CT/2CT-San-A6 (BB)	DSC1CT/2CT-Eng-S1 (MM) DSC1CT/2CT-Edu-S2 (PM)	AECC3T Core (ENG-II)-SH (PPM)	

	V (H)		DSE1T-Beng-G7 (DR) DSE1T-Eng-LRR (SDR) DSE1T-San-A1 (RNM) DSE1T-Phil-A2 (XXX) DSE1T-His-A3 (UC) DSE1T-Pol.Sc-A4 (XXX)	C11T-Beng-G7 (NB) C11T-Eng-LRR (MM) C11T-San-A1 (BB) C11T-Phil-A2 (BM) C11T-His-A3 (BPJ) C11T-Pol.Sc-A4 (SS)	DSE2T-Beng-LRR (DS) DSE2T-Eng-S6 (PPM) DSE2T-San-A1 (AB) DSE2T-Phil-A2 (TA) DSE2T-His-A3 (BPJ) DSE2T-Pol.Sc-A4 (SS)	C12T-Beng-SH (DR) C12T-Eng-LRR (PPM) C12T-San-A1 (AB) C12T-Phil-A2 (ST) C12T-His-F5 (MKN) C12T-Pol.Sc-A4 (RD)		
	V (G)	GE1T-Beng-LRR (MA) GE1T-Eng-A7 (XXX) GE1T-San-G4 (TJ) GE1T-Phil-A5 (XXX) GE1T-His-G1 (BPJ) GE1T-Pol.Sc-A6 (XXX) GE1T-Edu-G6 (SMA) GE1T-Phy.Edu-A8 (AN)	DSE1AT/2AT-His-A8 (BG)	DSE1AT/2AT-Phil-A6 (XXX)	DSE1AT/2AT-Phy.Edu.-PE Lab (XXX) DSE1AT/2AT-San-A8 (US)	DSE1AT/2AT-Eng-S3 (XXX) DSE1AT/2AT-Edu-S4 (XXX)	DSE1AT/2AT-Beng-LRR (DR) DSE1AT/2AT-Pol.Sc-S2 (XXX)	DSE1AT/2AT-Phil-G1 (XXX)
Saturday	**I (H)**		C2T-Beng-SH (GJ) C2T-Eng-S1 (MB) C2T-San-S2 (AB) C2T-Phil-S3 (AG) C2T-His-S4 (MKN) C2T-Pol.Sc-S5 (BR)	C1T-Beng-SH (SP) C1T-Eng-S1 (PPM) C1T-San-F5 (RNM) C1T-Phil-S3 (TA) C1T-His-S4 (BS) C1T-Pol.Sc-S7 (SS)	GE1T-Beng-G1 (NB) GE1T-Eng-S1 (SK) GE1T-San-G3 (AB) GE1T-Phil-S3 (TA) GE1T-His-S4 (MKN) GE1T-Pol.Sc-Com Lab (PS) GE1T-Edu-G7 (SIA)			
	I (G)	AECC1T Core (ENG-I)-SH (TG)	DSC1AT/2AT-His-G7 (NS)	DSC1AT/2AT-Edu-S5 (PM) DSC1AT/2AT-Eng-A5 (TG)	DSC1AT/2AT-Beng-A5 (SP)	DSC1AT/2AT-Pol.Sc-S1 (PS)		

	III (H)		C5T-Beng-G6 (SP) C5T-Eng-G5 (SK) C5T-San-G4 (AC) C5T-Phil-G3 (ST) C5T-His-G1 (BPJ) C5T-Pol.Sc-S6 (SS)	C6T-Beng-G6 (DS) C6T-Eng-G5 (SDR) C6T-San-G4 (TJ) C6T-Phil-G3 (ST) C6T-His-G1 (NS) C6T-Pol.Sc-S6 (BR)	GE3T-Beng-G6 (SCP) GE3T-Eng-G5 (XXX) GE3T-San-A1 (AC) GE3T-Phil-S2 (XXX) GE3T-His-G4 (NS) GE3T-Pol.Sc-A4 (BR) GE3T-Edu-A2 (PM)			
	III (G)	AECC3T Core (ENG-II)-LRR (PPM)	DSC1CT/2CT-His-A8 (BS)	DSC1CT/2CT-Edu-A8 (XXX) DSC1CT/2CT-Eng-A6 (MB)	DSC1CT/2CT-Phil-A6 (ST)	DSC1CT/2CT-Beng-F3 (SP) DSC1CT/2CT-Pol.Sc-S2 (RD)		
	V (H)		C11T-Beng-F4 (NB) C11T-Eng-LRR (SDR) C11T-San-A1 (TJ) C11T-Phil-A2 (TA) C11T-His-A3 (BG) C11T-Pol.Sc-A4 (RD)	C12T-Beng-G7 (SCP) C12T-Eng-A1 (SK) C12T-San-F2 (AB) C12T-Phil-A2 (AG) C12T-His-A3 (UC) C12T-Pol.Sc-A4 (RD)	DSE1T-Beng-SH (GJ) DSE1T-Eng-LRR (TG) DSE1T-San-F5 (TR) DSE1T-Phil-S7 (AG) DSE1T-His-A3 (BG) DSE1T-Pol.Sc-F. Annex (SS)	DSE2T-Beng-F4 (NB) DSE2T-Eng-SH (SK) DSE2T-San-F1 (AC) DSE2T-Phil-S2 (TA) DSE2T-His-G6 (MKN) DSE2T-Pol.Sc-S3 (BR)		
	V (G)	DSE1AT/2AT-Edu-G6 (SIA) DSE1AT/2AT-Eng-G7 (XXX)	DSE1AT/2AT-His-A6 (UC)	DSE1AT/2AT-Edu-LRR (SIA) DSE1AT/2AT-Eng-A7 (XXX)	DSE1AT/2AT-Phil-A7 (XXX)	DSE1AT/2AT-Beng-G7 (SCP)		

Narajole Raj College

Affiliated by Vidyasagar University

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Estd.-1966

MASTER ROUTINE -SESSION-2020-2021-SEMESTER-I, III, V (SCIENCE)

Day	Semester	10.00-11.00	11.00-12.00	12.00-01.00	01.00-02.00	02.00-03.00	03.00-04.00	04.00-05.00
Monday	**I (H)**		C1T (Phys)-Gen Lab C1T (Chem)-Org L C1T (Bot)-L1 C1T (Zoo)-L1 C1T (Math)-Dept C1T (Geo)-A7	C2T (Phys)-Gen Lab C2T (Chem)-Org L C2T (Bot)-L1 C2T (Zoo)-L1 C2T (Math)-Dept C2T (Geo)-A7	GE1T (Chem)- GE1T (Phys)-Gen Lab GE1T (Bot)-L1 GE1T (Zoo)-L1 GE1T (Math)-Comp. Lab GE1T (Geo)-Lab GE1T (Physio)-Lab-SKK	C1P (Phys)-Com. Lab C1P (Chem)-Org L C1P (Bot)-L1 C1P (Zoo)-L1 C1T (Geo)-Lab	C1P (Phys)-Com Lab C1P(Chem)-Org L C1P (Bot)-L1 C1P (Zoo)-L1	
	I (G)	DSC-1/2/3AT-Chem- Org Lab	DSC-1/2/3AT-Chem-TR	DSC-1/2/3A-Zoo-Tech. Room	DSC-1/2/3AT-Physio-Lab1-SKK DSC-1/2/3AT-Geo-TR	DSC-1/2/3AP-Phys-Lab DSC-1/2/3AP-Bot-Lab	DSC-1/2/3AP-Phys-Lab DSC-1/2/3AP-Bot-Lab	DSC-1/2/3AT-Math-A7
	III (H)	C5P (Phys)-Com Lab C5P (Chem)-Phyc L C5P (Bot)-L1 C5P (Zoo)-L1	C5P (Phys)-Com Lab C5P (Chem)-Phyc Lab C5P (Bot)-L2 C5P (Zoo)-L2 C5T (Math)-TR C5T (Geo)-A8	C5T (Phys)-Dept. Annex C5T (Chem)-Com Lab C5T (Bot)-L2 C5T (Zoo)-L2 C5T (Math)-TR C5T (Geo)-SH Annex	C6T (Phys)-Dept. Annex C6T (Chem)-Org L C6T (Bot)-L2 C6T (Zoo)-L2 C6T (Math)-Dept C6T (Geo)-F5	C7T (Phys)-Dept. Annex C7T (Chem)-Iorg L C7T (Bot)-L2 C7T (Zoo)-L2 C7T (Math)-Dept C7T (Geo)-A7	GE3P (Phys)-Electri. Lab GE3P (Bot)-L2 GE3P (Zoo)-L2 GE3P (Chem)-Iorg L GE3T (Geo)-S6 GE3P (Physio)-Lab-SKK	GE3P (Phys)-Electri. Lab GE3P (Bot)-L2 GE3P (Zoo)-L2 GE3P (Chem)-Iorg L GE3P (Physio)-Lab-SKK
	III (G)	DSC-1/2/3CT-Phys-Elec. Lab DSC-1/2/3CT-Bot-L3	DSC-1/2/3CT-Chem-Geo Annex	DSC-1/2/3CT-Math-Geo Annex DSC-1/2/3CT-Zoo-Annex Lab	DSC-1/2/3CT-Physio-Lab2-SKK DSC-1/2/3CT-Geo-Geo Annex-	DSC-1/2/3CP-Physio-Lab2-SKK DSC-1/2/3CP-Geo-Lab	DSC-1/2/3CP-Physio-Lab2-SKK DSC-1/2/3CP-Geo-Lab	DSC-1/2/3CT-Math-Dept-Geo Annex

	V (H)		DSE1T (Phys)-Electri. Lab DSE1P(Chem)-Iorg Lab DSE1P (Bot)-L3 DSE1P (Zoo)-CL1 DSE1T (Math)-F5 DSE1P (Geo)-Lab	DSE2T (Phys)-Electri. Lab DSE1P(Chem)-Iorg Lab DSE1P (Bot)-L3 DSE1P (Zoo)-CL1 DSE2T (Math)-G6 DSE1P (Geo)-Lab	C12T (Phys)-Electri. Lab C12T (Chem)-Iorg L C12T (Bot)-L3 C12T (Zoo)-CL1 C12T (Math)-F. Annex C12T (Geo)-A7	DSE1T (Phys)-Electric. Lab DSE1T(Chem)-F5 DSE1T (Bot)-L3 DSE1T (Zoo)-CL1 DSE1T (Math)-A2 DSE1T (Geo)-SH. Annex	C11P (Phys)-Com. Lab C11P(Chem)-Iorg. lab C11P (Bot)-L3 C11P (Zoo)-CL1 C11T (Math)-Dept C11P (Geo)-Lab	C11P (Phys)-Com. Lab C11P(Chem)-Iorg. Lab C11P (Bot)-L3 C11P (Zoo)-CL1 C11P (Geo)-Lab
	V (G)	DSE-1/2/3AT-Phys-Elecn. Lab DSE-1/2/3AT-Bot-A4	DSE-1/2/3AT-Chem-Physics Annex	DSE-1/2/3AT-Zoo-Physio. L	DSE-1/2/3AT-Physio-SKK DSE-1/2/3AT-Geo-A8	DSE-1/2/3AP-Physio-Lab-SKK DSE-1/2/3AP-Geo-lab	DSE-1/2/3AP-Physio-Lab-SKK DSE-1/2/3AP-Geo-Lab	DSE-1/2/3AT-Math-F. Annex
Tuesday	**I (H)**		C2T (Phys)-Gen Lab C2T (Chem)-Org L C2T (Bot)-L1 C2T (Zoo)-L1 C2T (Math)-Dept C2T (Geo)-Lab	C1T (Phys)-Gen Lab C1T (Chem)-Org L C1T (Bot)-L1 C1T (Zoo)-L1 C1T (Math)-Dept C1T (Geo)-Lab	GE1P (Chem)- GE1P (Phys)-Electron. Lab GE1P(Bot)-L1 GE1P (Zoo)-L1 GE1T (Math)-Dept GE1T (Geo)-Lab GE1P (Physio)-Lab-SKK	GE1P (Chem)- GE1P (Phys)-Electron. Lab GE1P(Bot)-L1 GE1P (Zoo)-L1 GE1P (Physio)-Lab-SKK	**AECC: ENG-Sem. Hall**	
	I (G)	DSC-1/2/3AT-Phys-Gen Lab DSC-1/2/3AT-Bot-L2	DSC-1/2/3AT-Phys-Elecn. Lab DSC-1/2/3AT-Bot-SH Annex	DSC-1/2/3AT-Math-TR DSC-1/2/3AT-Zoo-TR	DSC-1/2/3AP-Chem-Lab	DSC-1/2/3AP-Chem-Lab	**AECC: ENG-Sem. Hall**	DSC-1/2/3AT-Physio-Lab-PD DSC-1/2/3AT-Geo-Lab
	III (H)		Annex C5T (Chem)-Iorg L C5T (Bot)-L2 C5T (Zoo)-L2 C5T (Math)-F. Annex C5T (Geo)-A7	C6T (Phys)-Dept. Annex C6T (Chem)-Iorg L C6T (Bot)-L2 C6T (Zoo)-L2 C6T (Math)-F. Annex C6T (Geo)-A7	C7T (Phys)-Dept. Annex C7T (Chem)-Org L C7T (Bot)-L2 C7T (Zoo)-L2 C7T (Math)-F. Annex C7T (Geo)-A7	GE3T (Phys)-Gen. Lab GE3T (Bot)-L2 GE3T (Zoo)-L2 GE3T (Chem)-Org L GE3T (Geo)-A7 GE3T (Physio)-Lab-PD	C6P (Phys)-Electric. Lab C6P (Chem)-Inorg L C6P (Bot)-L2 C6P (Zoo)-L2 C6P (Geo)-Lab	C6P (Phys)-Electric. Lab C6P (Chem)-Inorg L C6P (Bot)-L2 C6P (Zoo)-L2 C6P (Geo)-Lab

	III (G)	DSC-1/2/3CT-Chem-ILab	DSC-1/2/3CT-Phys-Opt. Lab DSC-1/2/3CT-Bot-A4	DSC-1/2/3CT-Math-Geo Annex DSC-1/2/3CT-Zoo-Annex Lab	DSC-1/2/3CP-Chem Lab	DSC-1/2/3CP-Chem-Lab	DSC-1/2/3CT-Physio-Lab1-PD DSC-1/2/3CT-Geo-Lab1	SEC-1T-Math-Dept
	V (H)		C11T (Phys)-Electric. Lab C11T (Chem)-Com. Lab C11T (Bot)-L3 C11T (Zoo)-CL1 C11T (Math)-F5 C11T (Geo)-S2	C12T (Phys)-Electric. Lab C12T (Chem)-Com. Lab C12T (Bot)-L3 C12T (Zoo)-CL1 C12T (Math)-S4 C12T (Geo)-A4	DSE2T (Phys)-Electric. Lab DSE2T(Chem)-Iorg L DSE2T (Bot)-L3 DSE2T (Zoo)-CL1 DSE2T (Math)-Comp. Lab DSE2T (Geo)-SH Annex	C12P (Phys)-Electric. Lab C12P (Chem)-Org L C12P (Bot)-L3 C12P(Zoo)-CL1 C12T (Math)-Dept C12P (Geo)-Lab	C12P (Phys)-Electric. Lab C12P (Chem)-Org L C12P (Bot)-L3 C12P(Zoo)-CL1 C12P (Geo)-Lab	
	V (G)	DSE-1/2/3AT-Chem-S2	DSE-1/2/3AT-Phys-Opt. Lab DSE-1/2/3AT-Bot-TR	DSE-1/2/3AT-Math-A8 DSE-1/2/3AT-Zoo-A6	DSE-1/2/3AP-Chem-Lab	DSE-1/2/3AP-Chem-Lab	DSE-1/2/3AP-Phys-Lab DSE-1/2/3AP-Bot-Lab	DSE-1/2/3AP-Phys-Lab DSE-1/2/3AP-Bot-Lab
Wednesday	**I (H)**		C1T (Phys)-Gen Lab C1T (Chem)-Org L C1T (Bot)-L1 C1T (Zoo)-L1 C1T (Math)-F5 C1T (Geo)-Lab	C2T (Phys)-Gen Lab C2T (Chem)-Org L C2T (Bot)-L1 C2T (Zoo)-L1 C2T (Math)-Dept C2T (Geo)-Lab	GE1T (Chem)- GE1T (Phys)-Gen Lab GE1T (Bot)-L1 GE1T (Zoo)-L1 GE1T (Math)-Dept GE1T (Geo)-A7 GE1T (Physio)-Lab-PD	C2P (Phys)-Gen Lab C2P (Chem)-Phyc L C2P (Bot)-L1 C2P (Zoo)-L1 C2P (Geo)-Lab	C2P (Phys)-Gen Lab C2P (Chem)-Phyc L C2P (Bot)-L1 C2P (Zoo)-L1 C2P (Geo)-Lab	
	I (G)	DSC-1/2/3AT-Math-Dept DSC-1/2/3AT-Zoo-L1	DSC-1/2/3AT-Physio-Lab1-PD DSC-1/2/3AT-Geo-Tech. Room-	DSC-1/2/3AT-Chem-TR	DSC-1/2/3AP-Physio-Lab1-PD DSC-1/2/3AP-Geo-Lab	DSC-1/2/3AP-Physio-Lab1-PD DSC-1/2/3AP-Geo-Lab		

	III (H)		C5T (Phys)-Dept. Annex C5T (Chem)-Iorg L C5T (Bot)-L2 C5T (Zoo)-L2 C5T (Math)-Dept C5T (Geo)-A7	C6T (Phys)-Dept. Annex C6T (Chem)-Iorg L C6T (Bot)-L2 C6T (Zoo)-L2 C6T (Math)-F. Annex C6T (Geo)-A7	C7T (Phys)-Dept. Annex C7T (Chem)-Iorg L C7T (Bot)-L2 C7T (Zoo)-L2 C7T (Math)-TR C7T (Geo)-A7	GE3T (Phys)-Electric. Lab GE3T (Bot)-L2 GE3T (Zoo)-L2 GE3T (Chem)-Iorg L GE3T (Geo)-A7 GE3T (Physio)-Lab-PD	C7P (Phys)-Electron. Lab C7P(Chem)-Org L C7P (Bot)-L2 C7P (Zoo)-L2 C7P (Math)-Com Lab	C7P (Phys)-Electron. Lab C7P(Chem)-Org L C7P (Bot)-L2 C7P (Zoo)-L2 C7P (Math)-Com Lab
	III (G)	DSC-1/2/3CT-Math-F. Annex DSC-1/2/3CT-Zoo-L2	DSC-1/2/3CT-Physio-Lab2-PD DSC1/2/3CT-Geo-Geo Annex-	DSC-1/2/3CT-Phys-Electron. lab DSC-1/2/3CT-Bot-Geo Annex	DSC-1/2/3CT-Chem-Tech Room	DSC-1/2/3CP-Phys-lab DSC-1/2/3CP-Bot-Lab	DSC-1/2/3CP-Phys-Lab DSC-1/2/3CP-Bot lab	
	V (H)	DSE2P(Chem)-Org L DSE2P (Bot)-L3 DSE2P (Zoo)-L3 DSE2T (Geo)-Lab	DSE2P(Chem)-Org. Lab DSE2P (Bot)-L3 DSE2P (Zoo)-L3 DSE2T (Geo)-F. Annex	C11T (Phys)-Electric. Lab C11T (Chem)-Com. Lab C11T (Bot)-L3 C11T (Zoo)-L3 C11T (Math)-S1 C11T (Geo)-A8	DSE1T (Phys)-Electric. Lab DSE1T(Chem)-Org L DSE1T (Bot)-L3 DSE1T (Zoo)-L3 DSE1T (Math)-F Annex DSE1T (Geo)-Comp. Lab	DSE2T (Phys)-Dept. Annex DSE2T(Chem)-Org Lab DSE2T (Bot)-L3 DSE2T (Zoo)-L3 DSE2T (Math)-Dept DSE2T (Geo)-F. Annex	C11P (Phys)-Com. Lab C11P(Chem)-Iorg L C11P (Bot)-L3 C11P (Zoo)-L3 C11T (Math)-Dept C11P (Geo)-Lab	C11P (Phys)-Com. Lab C11P(Chem)-Iorg L C11P (Bot)-L3 C11P (Zoo)-L3 C11P (Geo)-Lab
	V (G)	DSE-1/2/3AT-Math-	DSE-1/2/3AT-Physio-Comp Lab-SKK DSE-1/2/3AT-Geo-Lab-	DSE-1/2/3AT-Chem-Teac. R	DSE-1/2/3AT-Chem-Phyc Lab	DSE-1/2/3AT-Math-TR DSE-1/2/3AT-Zoo-CL1	DSE-1/2/3AT-Physio-Lab2-PD DSE-1/2/3AT-Geo-A7	
Thursday	**I (H)**		C2P (Phys)-Gen Lab C2P (Chem)-Phyc Lab C2P (Bot)-L1 C2P (Zoo)-L1 C2P (Geo)-Lab C2T (Math)-Dept	C2P (Phys)-Gen Lab C2P (Chem)-Phyc Lab C2P (Bot)-L1 C2P (Zoo)-L1 C2P (Geo)-Lab C1T (Math)-Dept	GE1T (Chem)- GE1T (Phys)-Gen Lab GE1T (Bot)-L1 GE1T (Zoo)-L1 GE1T (Math)-Dept GE1T (Geo)-A8 GE1T (Physio)-Lab-PD	**AECC: ENG-Sem. Hall**		

	I (G)	DSC-1/2/3AP-Chem-Lab	DSC-1/2/3AP-Chem-Lab	DSC-1/2/3AT-Math-Geo Annex DSC-1/2/3AT-Zoo-Annex lab	DSC-1/2/3AT-Chem-TR-	**AECC: ENG-Sem. Hall**	DSC-1/2/3AT-Phys-Lab DSC-1/2/3AT-Bot-Lab	DSC-1/2/3AT-Physio-Lab-PD DSC-1/2/3AT-Geo-Geo Annex-
	III (H)		C5P (Phys)-Com. Lab C5P (Chem)-Phy L C5P (Bot)-L2 C5P (Zoo)-L2 C6T (Math)-Dept	C5P (Phys)-Com. Lab C5P (Chem)-Phy Lab C5P (Bot)-L2 C5P (Zoo)-L2 C5T (Math)-F. Anx C5T (Geo)-A7	C6T (Phys)-Dept. Annex C6T (Chem)-Iorg L C6T (Bot)-L2 C6T (Zoo)-L2 C6T (Math)-F. Anx C6T (Geo)-A7	C7T (Phys)-Dept. Annex C7T (Chem)-Iorg L C7T (Bot)-L2 C7T (Zoo)-L2 C7T (Math)-Dept C7T (Geo)-Lab	GE3P (Phys)-Electric. Lab GE3P (Bot)-L2 GE3P (Zoo)-L2 GE3P (Chem)-Iorg L GE3T (Geo)-F. Anx GE3P (Physio)-Lab-PD	GE3P (Phys)-Electric. Lab GE3P (Bot)-L2 GE3P (Zoo)-L2 GE3P (Chem)-Iorg L GE3P (Physio)-Lab-PD
	III (G)	DSC-1/2/3CP-Chem-lab	DSC-1/2/3CP-Chem-Lab	DSC-1/2/3CT-Math-TR DSC-1/2/3CT-Zoo-TR	DSC-1/2/3CT-Physio-Lab-PD DSC-1/2/3CT-Geo-Lab-	DSC-1/2/3CT-Phys-Lab DSC-1/2/3CT-Bot-Geo. Annex	DSC-1/2/3CT-Chem-Org L	SEC1T (Phys)-A1 SEC1T (Bot)-A2 SEC1T (Zoo)-A3 SEC1T (Math)-A4 SEC1T (Geo)-G1 SEC1T-(Chem)-G3 SEC1T- (Physio)-G4-PD
	V (H)		C11T (Phys)-Electric. Lab C11T (Chem)-Org Lab C11T (Bot)-L3 C11T (Zoo)-CL1 C11T (Math)-F. Anx C11T (Geo)-SH Anx	Lab C12T (Chem)-Physical Lab C12T (Bot)-L3 C12T (Zoo)-CL1 C12T (Math)-G7 C12T (Geo)-SH Anx	DSE1T (Phys)-Electric. Lab DSE1T(Chem)-Org L DSE1T (Bot)-L3 DSE1T (Zoo)-CL1 DSE1T (Math)-Com lab DSE1T (Geo)-A4	DSE2T (Phys)-Electric. Lab DSE2T(Chem)-Org L DSE2T (Bot)-L3 DSE2T (Zoo)-CL1 DSE2T (Math)-F Anx DSE2T (Geo)-A7	C12P (Phys)-Electric. Lab C12P (Chem)-Org L C12P (Bot)-L3 C12P(Zoo)-CL1 C12T (Math)-Dept C12P (Geo)-Lab	C12P (Phys)-Electric. Lab C12P (Chem)-Org L C12P (Bot)-L3 C12P(Zoo)-CL1 C12P (Geo)-Lab

	V (G)	DSE-1/2/3AP-Chem-Lab	DSE-1/2/3AP-Chem-Lab	DSE-1/2/3AT-Math-A8 DSE-1/2/3AT-Zoo-Physiology Lab	DSE-1/2/3AT-Phys-Com. Room DSE-1/2/3AT-Bot-Lab	DSE-1/2/3AT-Phys-Lab DSE-1/2/3AT-Bot-Lab	DSE-1/2/3AT-Physio-Lab-PD DSE-1/2/3AT-Geo-Lab	SEC3T (Phys)-Lab SEC3T (Bot)-Lab SEC3T (Zoo)-Lab SEC3T (Math)-Dept SEC3T (Geo)-Lab SEC3T-(Chem)-Lab SEC3T- (Physio)-Lab-PD
Friday	**I (H)**		C2T (Phys)-Gen Lab C2T (Chem)-Phyc Lab C2T (Bot)-L1 C2T (Zoo)-L1 C2T (Math)-Dept C2T (Geo)-Lab	C1T (Phys)-Gen. Lab C1T (Chem)-Phyc Lab C1T (Bot)-L1 C1T (Zoo)-L1 C1T (Math)-Dept C1T (Geo)-Lab	GE1P (Chem)- GE1P (Phys)-Electron. Lab GE1P(Bot)-L1 GE1P (Zoo)-L1 GE1P (Physio)-PD GE1T (Math)-Dept GE1T (Geo)-Lab	GE1P(Chem)- GE1P (Phys)-Electron. Lab GE1P(Bot)-L1 GE1P (Zoo)-L1 GE1P (Physio)-Lab-PD		
	I (G)	DSC-1/2/3AP-Physio-Lab-SKK DSC-1/2/3AP-Geo-Lab	DSC-1/2/3AP-Physio-Lab-SKK DSC-1/2/3AP-Geo-Lab	DSC-1/2/3AT-Math-TR	DSC-1/2/3AP-Zoo-Lab	DSC-1/2/3AP-Zoo-Lab	DSC-1/2/3AP-Phys-Lab DSC-1/2/3AP-Bot-Lab	DSC-1/2/3AP-Phys-Lab DSC-1/2/3AP-Bot-Lab
	III (H)	Lab C6P (Chem)-Iorg Lab C6P (Bot)-L2 C6P (Zoo)-L2 C6P (Geo)-Lab	C6P (Phys)-Electric. Lab C6P (Chem)-Iorg L C6P (Bot)-L2 C6P (Zoo)-L2 C6P (Geo)-Lab C6T (Math)-F. Annex	SEC1T (Phys)-Gen. Lab SEC1T(Chem)-Org L SEC1T (Bot)-L2 SEC1T (Zoo)-L2 SEC1T (Math)-F. Anx SEC1T (Geo)-A7	C5T (Phys)-Dept. Annex C5T (Chem)-Iorg L C5T (Bot)-L2 C5T (Zoo)-L2 C5T (Math)-F. Anx C5T (Geo)-A7	GE3T (Phys)-Gen. Lab GE3T (Bot)-L2 GE3T (Zoo)-L2 GE3T (Chem)-Iorg L GE3T (Geo)-Lab GE3T (Physio)-Lab-SKK	SEC1P (Chem)-Iorg L C5T (Math)-Dept	SEC1P (Chem)-Iorg L

	III (G)	DSC-1/2/3CP-Phys-Lab DSC-1/2/3CP-Bot4-Lab	DSC-1/2/3CP-Phys-Lab DSC-1/2/3CP-Bot-Lab	DSC-1/2/3CT-Math-Geo Annex DSC-1/2/3CP-Zoo-Annex Lab	DSC-1/2/3CP-Zoo-Lab	SEC1T (Phys)-Opt Lab SEC1T (Bot)-L3 SEC1T (Zoo)-CL1 SEC1T (Math)-Dept SEC1T (Geo)-F. anx SEC1T-(Chem)-Comp Lab SEC1T- (Physio)Lab-PD	DSC-1/2/3CP-Physio-Lab-PD DSC-1/2/3CP-Geo-Lab	DSC-1/2/3CP-Physio-Lab-PD DSC-1/2/3CP-Geo-Lab
	V (H)		C12T (Phys)-Dept. Annex C12T (Chem)-Com Lab C12T (Bot)-L3 C12T (Zoo)-CL1 C12T (Math)-SH Anx C12T (Geo)-F5	C11T (Phys)-Dept. Annex C11T (Chem)-Com Lab C11T (Bot)-L3 C11T (Zoo)-CL1 C11T (Math)-S2 C11T (Geo)-SH Anx	DSE2T (Phys)-Electric. Lab DSE2T(Chem)-Org L DSE2T (Bot)-L3 DSE2T (Zoo)-CL1 DSE2T (Math)-Com Lab DSE2T (Geo)-SH. Anx	DSE2P(Chem)-Org L DSE2P (Bot)-L3 DSE2P (Zoo)-CL1 DSE2T (Geo)S5-	DSE2P(Chem)-Org L DSE2P (Bot)-L3 DSE2P (Zoo)-CL1 DSE2T (Geo)-Lab	
	V (G)	DSE-1/2/3AP-Phys-Lab DSE-1/2/3AP-Bot-Lab	DSE-1/2/3AP-Phys-Lab DSE-1/2/3AP-Bot-Lab	DSE-1/2/3AT-Math-A8 DSE1/2/3A1P-Zoo-Lab	DSE-1/2/3AP-Zoo-Lab	SEC3T (Phys)-S6 SEC3T (Bot)-Lab SEC3T (Zoo)-Lab SEC3T (Math)-A3 SEC3T (Geo)-Lab SEC3T-(Chem)-Lab SEC3T- (Physio)-Lab-SKK	DSE-1/2/3AP-Physio-Lab-SKK DSE1/2/3AP-Geo-Lab	DSE-1/2/3AP-Physio-Lab-SKK DSE1/2/3AP-Geo-Lab
Saturday	**I (H)**		C1P (Phys)-Com. Lab C1P (Chem)-Org L C1P (Bot)-L1 C1P (Zoo)-L1 C1T (Math)-Dept C1T (Geo)-Lab	C1P (Phys)-Com. Lab C1P (Chem)-Org L C1P (Bot)-L1 C1P (Zoo)-L1 C2T (Math)-Dept	GE1T (Chem)- GE1T (Phys)-Gen. Lab GE1T (Bot)-L1 GE1T (Zoo)-L1 GE1T (Math)-Dept GE1T (Geo)-Lab GE1T (Physio)-Lab-PD			
	I (G)	DSC-1/2/3AP-Zoo-Lab	DSC-1/2/3AP-Zoo-Lab	DSC-1/2/3AT-Phys-Lab DSC-1/2/3AT-Geo. Annex	DSC-1/2/3AT-Math-			

	III (H)	Electron. Lab C7PChem)- Org L C7P (Bot)-L2 C7P (Zoo)-L2 C7P (Math)-Com Lab C7T (Geo)-Lab	C7P (Phys)-Electron. Lab C7PChem)- Org L C7P (Bot)-L2 C7P (Zoo)-L2 C7P (Math)-Com Lab C7T (Geo)-F5	SEC1T (Phys)-Electron Lab SEC1T (Bot)-L2 SEC1T (Zoo)-L2 SEC1T (Math)-TR SEC1T (Geo)-S2	GE3T (Phys)-Electric. Lab GE3T (Bot)-L2 GE3T (Zoo)-L2 GE3T (Chem)-Org L GE3T (Geo)-F. Anx GE3T (Physio)-Lab-SKK			
	III (G)	DSC-1/2/3CP-Zoo-Lab	DSC-1/2/3CP-Zoo-Lab	SEC1P (Phys)-Lab SEC1P (Bot)-Lab SEC1P (Zoo)-Lab SEC1P (Geo)-Lab SEC1P-(Chem)-Lab SEC1P- (Physio)-Lab-SKK	SEC1P (Phys)-Lab SEC1P (Bot)-Lab SEC1P (Zoo)-Lab SEC1P (Geo)-Lab SEC1P-(Chem)-Lab SEC1P- (Physio)-Lab-SKK			
	V (H)		Lab DSE1T(Chem)-Inorg. Lab DSE1T (Bot)-L3 DSE1T (Zoo)-CL1 DSE1T (Math)-F. Anx DSE1T (Geo)-A7	DSE2T (Phys)-Electric. Lab DSE1P(Chem)-Iorg L DSE1P (Bot)-L3 DSE1P (Zoo)-CL1 DSE2T (Math)-F. Anx DSE1P (Geo)-Lab	DSE1T (Phys)-Electron. Lab DSE1P(Chem)-Iorg Lab DSE1P (Bot)-L3 DSE1P (Zoo)-CL1 DSE1T (Math)-F3 DSE1P (Geo)-Lab			

Data Capturing Format (DCF) for Distribution of Papers & Classes

Name of the Department: Department of Bengali (UG)

Academic Session: 2020-21 **Semester: ODD**

Dr. Nilanjana Bhattacharyya (Associate Professor & Head)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-7-T	02	C-11-T	03	GE-1-T	02	DSE-2H	02	SEC-3-G	02	GE-1-G	02	X	X	13

Dr. Sadhan Chandra Pandit (Assistant Professor - Stage 3)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-1-T	02	C-7-T	03	C-12-T	02	DSE-1H	02	DSE-G	02	X	X	X	X	11

Dr. Dipak Shom (Assistant Professor - Stage 2)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-1-T	02	C-6-T	02	C-12-T	02	GE-1-T	02	DSE1H	02	SEC-1H	02	GE-1-G	02	14

Prof. Avijit chakraborty(Govt. approved Part time Teacher)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-2-T	02	C-6-T	02	C-11-T	02	DSC-1c	02	DSE-G	02	X	X	X	X	10

Prof. Madhumita Addhya(Guest Teacher)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-2-T	02	C-5-T	02	DSC-1a	02	GE-3-T	02	GE-1-G	02	X	X	X	X	10

Prof. Sanat Pan (Guest Teacher)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-1-T	02	C-5-T	02	GE-3-T	02	DSC-1a	02	SEC-1-G	02	DSE-1G	02	X	X	12

Data Capturing Format (DCF) for Distribution of Papers & Classes

Name of the Department: Department of Bengali (UG)

Academic Session: 2020-21 **Semester: ODD**

Prof. Dipashree Roy (Guest Teacher)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-5-T	02	C-12-T	02	DSC-1a	02	AECC-C	02	GE-3-T	02	DSC-1c	02	DSE-2H	02	14

Prof. Goutam Jana (Guest Teacher)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-2-T	02	C-6-T	02	C-11-T	02	GE-1-T	02	DSC-1c	02	DSE-1H	02	DSE-2H	02	14

Prof. …… N/A

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes

Prof. ……N/A

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes

Prof……N/A

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes

Prof. ……..N/A

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes

Data Capturing Format (DCF) for Distribution of Papers & Classes

Name of the Department: Department of Bengali (PG)

Academic Session: 2020-21 **Semester: ODD**

Dr. Sadhan Chandra Pandit (Assistant Professor-Stage 3 & PG Co-Ordinator)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
103	03	104	02	301	02	303	02	304	01	X	X	X	X	10

Dr. Nilanjana Bhattacharyya (Associate Professor)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
102	01	104	02	105	02	301	02	302	02	304	01	X	X	10

Dr. Dipak Shom (Assistant Professor - Stage 2)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
102	01	103	02	105	02	302	02	303	02	304	01	X	X	10

Prof. Avijit Chakraborty (Govt. approved Part time Teacher)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
102	01	104	01	105	01	301	02	303	02	304	01	X	X	08

Prof. Madhumita Addhya(Guest Teacher)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
102	01	105	01	301	01	302	01	303	01	304	01	X	X	06

Prof. Sanat Pan (Guest Teacher)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
101	04	X	X	X	X	X	X	X	X	X	X	X	X	04

NARAJOLE RAJ COLLEGE

(NAAC Accredited 'B' Grade Govt.-Aided College)

NARAJOLE: PASCHIM MEDINIPUR: PIN-721211

Ph.: 9475429270 e-mail: narajolerajcollege@rediffmail.com

Name of the Department: Department of Bengali
Name of the Teacher: Dr. Nilanjana Bhattacharyya
Name and Distinctive Number of the Paper: Rabindra Sahitya Path – Shyamali -BNG203

Session: 2020-21
Semester: II (PG)

Sample:

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be covered in the Lecture
Lecture 01	রবীন্দ্রসাহিত্যপাঠ – শ্যামলী , রবীন্দ্রনাথ ঠাকুর	ভূমিকা: রবীন্দ্র কাব্যধারার সাধারণ পরিচয়
Lecture 02		"শ্যামলী' কাব্যগ্রন্থের সাধারণ পরিচয় ও রবীন্দ্রকাব্যধারায় তার বিশিষ্টতা
Lecture 03		কাব্যপাঠ ও বিশ্লেষণ – ১ অকাল ঘুম, অমৃত,আমি,কনি
Lecture 04		কাব্যপাঠ ও বিশ্লেষণ – ২ কালরাত্রে, চিরযাত্রী,তেঁতুলের ফুল,দুর্বোধ
Lecture 05		কাব্যপাঠ ও বিশ্লেষণ – ৩ দ্বৈত, প্রাণের রস,বঞ্চিত – অপর পক্ষ
Lecture 06		কাব্যপাঠ ও বিশ্লেষণ – ৪ বাঁশিওয়ালা, বিদায়বরণ
Lecture 07		কাব্যপাঠ ও বিশ্লেষণ – ৫ মিলভাঙা, শেষপহরে,শ্যামলী
Lecture 08		কাব্যপাঠ ও বিশ্লেষণ – ৬

		সম্ভাষণ, স্বপ্ন, হঠাৎ দেখা, হারানো মন
Lecture 09		রসতাত্ত্বিক বিশ্লেষণ – ১ শ্যামলী কাব্যে বিধৃত মর্ত্যচেতনা
Lecture 10		রসতাত্ত্বিক বিশ্লেষণ – ২ শ্যামলী কাব্যে বিধৃত প্রেমচেতনা
Lecture 11		রসতাত্ত্বিক বিশ্লেষণ – ৩ শ্যামলী কাব্যের আখ্যানকবিতাগুলি সম্পর্কিত আলোচনা
Lecture 12		রসতাত্ত্বিক বিশ্লেষণ – ৪ শ্যামলী কাব্যেউৎসর্গ অংশে বর্ণিত কবিভাবনা, মূল কাব্যের সঙ্গে কতখানি সম্পৃক্ত
Lecture 13		রসতাত্ত্বিক বিশ্লেষণ – ৫ শ্যামলী কাব্যের নামকরণের সার্থকতা
Lecture 14		সম্ভাব্য প্রশ্নাবলীর আলোচনা
Lecture 15		পূর্বপাঠের পুনরালোচনা .

Instructions for preparation of 'Teaching Plan':
(a) Total Number of lectures should be about 75% of the actual classes during the last corresponding semester or anticipated classes during the stipulated time of the particular semester, whichever is less;
(b) The sample given above is only explanatory in nature;
(c) To start with, prepare Teaching Plan only for Core Course (Hons.) papers. Teaching Plan for other papers like GE Papers, DSC Papers, DSE Papers, AECC Papers would be done only after successful completion of the preparation of Teaching Plan for CC Papers.
(d) For any query feel free to call me. We need to develop one robust DCF and for that your valued suggestion would be a good input.

s/d Principal

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Name of the Department: **Mathematics**
Name of the Teacher: Dr. Akul Rana
Name and No. of the paper: (Calculus, Geometry & Differential Equation) **C1T**
Session: 2020-2021 (Jul. 20-Dec. 20)
Class: 1th Semester Mathematics Honours

Sr. No. of Lect.	Broad Topic in University Syllabus	To be discussed
1.	**Differential Calculus**	**Introduction** to higher order derivatives, Hyperbolic functions.
2.		**Determination of higher order derivative of some well known function.**
3.		**Statement, proof and application of Leibnitz rule**
4.		**Problem Solving**
5.		**Tutorial**
6.		concavity and inflection points, an introduction
7.		**Problems on** concavity and inflection points.
8.		**Envelope, an introduction**
9.		**Problem Solving**
10.		**Tutorial**
11.		**Asymptote, an introduction**
12.		**Asymptote of Cartesian curve**
13.		Asymptote of Polar Curve
14.		Problem Solving session
15.		L'Hospital's rule and its application
16.		Problem solving using L'Hospital's rule

17.		Curve tracing of Cartesian curve
18.		Tracing in polar coordinates of standard curves
19.	**Integral Calculus**	Reduction Formulae of some trigonometric functions
20.		Derivations and illustrations of reduction formulae of various type
21.		Problem solving
22.		Parametric equations, parameterizing a curve, arc length of a curve, arc length of parametric curves.
23.		Problem solving
24.		Area under a curve, area of surface of revolution
25.		Volume of surface of revolution
26.		Problems on area and volume of surface of revolution
27.		Techniques of sketching conics.
28.		Problem solving
29.	**Differential Equation**	An introduction to Differential equations and mathematical models.
30.		Solution of a Differential Equation, General, particular, explicit, implicit and singular solutions of a differential equation.
31.		Separable equations and equations reducible to this form
32.		Exact differential equations and integrating factors
33.		Rules of finding integrating factor
34.		Problem Solving Session
35.		Linear equation and Bernoulli equations
36.		Problem solving session
37.		Special integrating factors and transformations.
38.		Problem Solving
39.		Tutorial
40.		Tutorial

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Name of the Department: **Mathematics**
Name of the Teacher: Dr. Akul Rana
Name and No. of the paper: (**Numerical Methods Lab**) **C7P**
Session: 2019-2020 (July. 20-Dec. 20)
Class: 3rd Semester Mathematics Honours

Lect. No.	Chapter/Unit in Syllabus	To be discussed
1.	**Numerical Methods Lab using C language**	Introduction to C programming
2.		Control Statement in C programming
3.		Program to calculate the sum 1/1 + 1/2 + 1/3 + 1/4 + ---------+ 1/ N. Program for entering 100 integers into an array and sort them in an ascending order.
4.		Program for finding solution of transcendental and algebraic equations by Bisection method and Newton Raphson method.
5.		Program for finding solution of transcendental and algebraic equations by Secant method Regula Falsi method.
6.		Numerical Integration using Trapezoidal Rule and Simpson's one third rule
7.		Numerical Integration using Weddle's Rule and Gaussian Quadrature
8.		Solution of ordinary differential equations using Euler method And Modified Euler method
9.		Solution of ordinary differential equations using Runge Kutta method of 2nd order and 4th order
10.		Solution of system of linear equation using Gauss-Jacobi method .
11.		Solution of system of linear equation using Gauss-Seidel method
12.		Tutorial
13.		

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Name of the Department: **Mathematics**
Name of the Teacher: Dr. Akul Rana
Name and No. of the paper: (Logic and Sets) **SEC1T**
Session: 2019-2020 (July. 20-Dec. 20)
Class: 3rd Semester Mathematics Honours

Lect. No.	Chapter/Unit in Syllabus	To be discussed
1.	Logic and Sets	Introduction to Logic and Sets
2.		Propositions, truth table, negation
3.		Conjunction and disjunction. Implications, biconditional propositions
4.		Converse, contra positive and inverse propositions and precedence of logical operators.
5.		Propositional equivalence: Logical equivalences.
6.		Tutorial
7.		An introduction to Predicates and quantifiers.
8.		quantifiers, binding variables and negations.
9.		Tutorial
10.		Sets, subsets, set operations and the laws of set theory
11.		Venn diagrams. Examples of finite and infinite sets. Finite sets and counting principle.
12.		Tutorial
13.		Empty set, properties of empty set. Standard set operations.
14.		Classes of sets. Power set of a set.
15.		Difference and Symmetric difference of two sets. Set identities.
16.		Product Set, Relation: Product set. Composition of relations

17.		Types of relations
18.		Partitions, Theorems on relations
19.		Equivalence Relations with example of congruence modulo relation.
20.		Partial ordering relations, n- ary relations.
21.		Tutorial

NARAJOLE RAJ COLLEGE

(NAAC Accredited B Grade Government Aided College)
NARAJOLE : PASCHIM MEDINIPUR: PIN-721211
Ph: 9475429270 email: narajolerajcollege@rediffmail.com

Name of the Department: **Mathematics**
Name of the Teacher: Dr. Akul Rana
Name and No. of the paper: **(Linear Programming Problem) DSE1T**
Session: 2019-2020 (July 20-Dec. 20)
Class: 5th Semester Mathematics Honours

Lect. No.	Chapter/Unit in Syllabus	To be discussed
1.	**LPP**	What and why LPP? Introduction to LPP
2.		Standard form of LPP
3.		Convex Set and related theorems
4.		Basic Solution of LPP
5.		Basic Feasible Solution and Optimal Solution
6.		The inverse LT of some simple functions
7.		Properties of Simplex Method: Reduction of a FS to BFS
8.		Fundamental theorem of LPP
9.		Solution of LPP: Graphical Method
10.		Simplex Method
11.		Problem based on Simplex methods
12.		Artificial variables and two phase method
13.		Problems based on Two phase method
14.		Big M method
15.		Problems on Big M method
16.		When a LPP has Unbounded solution and no solution?
17.		Duality, formulation of the dual problem

18.		Primal-dual relationships and economic interpretation of the dual.
19.		Solution of the primal problem solving the Dual
20.		Tutorial
21.		Tutorial
22.		Tutorial
23.		Class Test
24.	**Transportation Problem**	Transportation problem and its mathematical formulation
25.		Northwest-corner method
26.		Least cost method and Vogel approximation method for determination of starting basic solution.
27.		Optimality test of basic solution
28.		solving transportation problem
29.		Problem solving
30.		Tutorial
31.	**Assignment method**	Assignment problem and its mathematical formulation,
32.		Hungarian method for solving assignment problem
33.		Problem Solving
34.		Problem solving
35.		Tutorial
36.	**Game Theory**	Game theory: formulation of two person zero sum games.
37.		Solving two person zero sum games.
38.		Games with mixed strategies
39.		Graphical solution procedure
40.		Linearprogramming solutionof games.
41.		Problem Solving
42.		Tutorial

43.		Interactive Session
44.		Interactive Session
45.		Interactive Session

NARAJOLE RAJ COLLEGE

(NAAC Accredited 'B' Grade)

NARAJOLE:: PASCHIM MEDINIPUR :: WEST BENGAL

Pin-721211 **E-mail:** *narajoleracollege@rediffmail.com*

Teaching Plan

Name of the Department: *History*
Name of the Teacher: *Dr. Mangal Kumar Nayak, Assistant Professor*
Name of the Distinctive Number of the Paper: *CC- III (Mauryan and Gupta Empire)*
Session: *2020-2021*
Semester: *II*

Sr. No of Lecturer	Broad Topic in University Syllabus	Topic to be covered in the Lecturer
Lecture 01	***III. Post Mauryan Empire***	Literary & Archaeological Source for reconstructing history after the Post Mauryan Ages
Lecture 02		Political Condition of North India after the fall of the Mauryan Empire
Lecture 03		Political Condition of South India after the fall of the Mauryan Empire
Lecture 04		Socio Life of the post Mauryan period
Lecture 05		Economic Situation of after Mauryan empire
Lecture 06		Feudalism system after Mauryan
Lecture 07		Review the History of Bengal from the end of Mauryan Empire
Lecture 08		Frontier policy of after Mauryan
Lecture 09		Political & Cultural contribution of Mauryan
Lecture 10		Growth of Regional power after Mauryan
Lecture 11	***Sungas Dynasty***	Political History of Sungas Dynasty
Lecture 12	***Kanvas Dynasty***	Political History of Kanvas Dynasty
Lecture 13	***Indo- Greeks***	Political History of Indo Greeks
Lecture 14		Bactrian campaign
Lecture 15		Political History of Bactrian
Lecture 16		Shak & Bactrian Administration
Lecture 17		Socio - Cultural History of Indo-Bactrian Ages.
Lecture 18	***History of Kushanas***	Genesis of Kshanas History: Literary & Archaeological Source
Lecture 19		Socio - political Background of Kushanas
Lecture 20		Political History of Kushanas Dynasty
Lecture 21		History of Kaniska period
Lecture 22		History of Kaniska period
Lecture 23		Administrative structure of Kushanas period
Lecture 24		Cultural History of Kushanas times
Lecture 25		Economic activities of Kushans Ages
Lecture 26		History of Art & Craft of Kushanas
Lecture 28		Downfall of Kushanas
Lecture 29		Historical Importance of Kushanas period
Lecture 30	***Satavahanas Period***	Literary & Archaeological Source for reconstructing history the Satavahanas Ages
Lecture 31		Political Situation of North India after the Mauryan Ages
Lecture 32		Political History of Satavahanas Dynasty

Lecture 33		Political History of Goutami Putra Satkorni
Lecture 34		Administrative structure of Satavahanas
Lecture 35		Socio- Cultural History of Satavahanas
Lecture 36		Religious life of Satavahanas times
Lecture 37		Economic activities of Satavahanas Ages
Lecture 38		Rome Indian Trade route
Lecture 39		General review of science and technology
Lecture 40	***Satavahanas Period***	Downfall of Satavahanas

Semester II

Paper: CC IV(Political History of Early Medieval India (600AD to 1200AD)

Sr. No of Lecturer	**Broad Topic in University Syllabus**	**Topic to be covered in the Lecturer**
Lecture 01	***Unit I, Module I: Understanding the Early medieval phase in the Indian History: 1. Different perceptions on the early medieval situations 2. Literary and Archaeological sources***	Literary & Archaeological Source for reconstructing history of early medieval situations
Lecture 02		Literary & Archaeological Source for reconstructing history of early medieval situations
Lecture 03		Literary & Archaeological Source for reconstructing history of early medieval situations
Lecture 04		Socio & Cultural Life of early medieval times
Lecture 05		Economic Situation of early medieval times
Lecture 06		Political Situation of early medieval times in India
Lecture 07		Political Situation of early medieval times in outside India
Lecture 08		Feudal system of Early medieval India
Lecture 09		Regional situation of early medieval period
Lecture 10		Regional situation of early medieval period
Lecture 11		Political History of Chauhanas Dynasty
Lecture 12		Political History of Prithviraja Chauhanas
Lecture 13		Invasions of MD. Muhammad Ghori
Lecture 14		Battle of Tarain Ist. 1191 & Second 1192AD
Lecture 15		Significance the Battle of Tarain
Lecture 16		The Paramaras of Malwa Dynasty
Lecture 17		Other Dynasties of this era.
Lecture 18	***3. Development of Regional Culture: an overview***	Cultural activities of early medieval period
Lecture 19		History of Science and Technology of this time
Lecture 20		History of Art and Craft.
Lecture 21	***Unit 2, 1.2 Emergence of Feudal Polity: Nature and Structure of Indian Feudalism***	feudalism: Historical background
Lecture 22		Feudalism: Indian context
Lecture 23		Indian Feudalism : Historical Debate
Lecture 24		Nature and Structure of Indian feudalism
Lecture 25		Feudalism: Historical Significance
Lecture 26	***Unit 2, 1. Zenith of Political Feudalism: 1000 to 1200CE***	Growth of Regional power: North & Eastern India
Lecture 28		Administrative structure: Central and Regional Area
Lecture 29		Historical Importance of Regional Dynasty
Lecture 30	***Unit 2, 1.4. The concept of segmentary state and the Indian experience***	Political Situation of North India after the Mauryan Ages
Lecture 31		Political History of Satavahanas Dynasty
Lecture 32		Political History of Goutami Putra Satkorni
Lecture 33		Administrative structure of Satavahanas
Lecture 34		Socio- Cultural History of Satavahanas
Lecture 35		Religious life of Satavahanas times
Lecture 36		Economic activities of Satavahanas Ages

Lecture 37		Rome Indian Trade route
Lecture 38		Downfall of Satavahanas

Semester IV

Paper: CC VIII (Renaissance and Reformation)

Sr. No of Lecturer	Broad Topic in University Syllabus	Topic to be covered in the Lecturer
Lecture 01	***Reformation in the National context***	Source: Reconstructing history of 15th & 16th Century reformation movement
Lecture 02		15th & 16th Century reformation movement: International & National background
Lecture 03	***France Reformation Movement***	Reformation movement in France : Background
Lecture 04		Socio & economic impact of after reformation
Lecture 05		Art & Cultural Situation of after reformation
Lecture 06	***Switzerland Reformation Movement***	Reformation movement in Switzerland : background
Lecture 07		15th & 16th Century reformation movement: Switzerland
Lecture 08		Socio & economic impact of after reformation
Lecture 09		Art & Cultural impact of after reformation
Lecture 10	***England Reformation Movement: Nature and Distinctiveness***	English reformation movement : background
Lecture 11		Political impact of English reformation movement
Lecture 12		Socio & economic impact of after reformation in England
Lecture 13		Art & Cultural impact of after reformation
Lecture 14		Nature and Distinctiveness of English Reformation
Lecture 15		Radical Reformation movement in England
Lecture 16		Anabaptists movement in England
Lecture 17		Counter reformation movement in England
Lecture 18	***Reformation movement in outside Europe***	Reformation Movement in outside Europe
Lecture 19		Social & cultural life in Europe after reformation
Lecture 20		Reformation and Humanism
Lecture 21	***Renaissance and Science and the emergence of secular culture***	15th Century Renaissance: Historical background
Lecture 22		Renaissance and Scientific thought
Lecture 23		15th Century Scientific Revolution in Europe
Lecture 24		Print Revolution
Lecture 25		Agriculture Revolution
Lecture 26		Scientific Revolution
Lecture 28		Military Revolution
Lecture 29		Industrial Revolution
Lecture 30		Short history of Scientist
Lecture 31		Short history of Scientist
Lecture 32		Concept of Secularism
Lecture 33		Secular Culture and Human Life
Lecture 34		Secular Culture and Human Life
Lecture 35		Scientific mind and outlooks

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NARAJOLE: PASCHIM MEDINIPUR: PIN-721211

Ph.: 9475429270 e-mail: narajolerajcollege@rediffmail.com

Name of the Department: Department of Physics

Name of the Teacher: Dr. Tapanendu Kamilya

Name and Distinctive Number of the Paper: Nanomaterials and Application DSE-3T

Session: 2020-21

Semester: VI

Sample:

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be covered in the Lecture
Lecture 01	Nanoscale Systems *(Sub Topic: General Idea of Nanoscale Materials)*	Introduction
		Discussion about different Length Scale in Physics.
		Idea about 1D, 2D and 3D nanostructures (Nanodots, Thin Film, Nanowires and Nanorods).
Lecture 02		Idea and Discussion about Band Structure of Nanomaterials.
		Calculation of Density of States of Materials at Nanoscale.
Lecture 03		Concept of Size Effects in Nanosystems.
Lecture 04	Nanoscale Systems *(Sub Topic: Quantum Confinement)*	Concept of Quantum Confinement.
		Recapitulation of Schrödinger Equation.
Lecture 05		Derivation of Schrödinger Equation for Infinite Square Well Potential.
		Calculation of Schrödinger Equation for Infinite Square Well Potential.
Lecture 06		Derivation of Schrödinger Equation for Step Potential.

		Calculation of Schrödinger Equation for Infinite Square Well Potential.
Lecture 07		Derivation of Schrödinger Equation for Potential Box.
		Calculation of Schrödinger Equation for Potential Box.
Lecture 08		Discussion about Confinement of Carriers in 3D, 2D, 1D Nanostructures.
		Consequences of Confinement of Carriers in 3D, 2D, 1D Nanostructures.
Lecture 09	Synthesis of Nanostructure Materials *(Sub Topic: Different Experimental Techniques of Synthesis)*	Basic Idea about Top Down and Bottom Up Approach for Synthesis of Nanoscale Materials.
Lecture 10		Photolithography-Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
		Ball Milling -Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
Lecture 11		Gas Phase Condensation-Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
		Vaccum Deposition -Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.

Lecture 12		Physical Vapour Deposition - Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
		Thermal Evaporation -Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
Lecture 13		E-Beam Evaporation -Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
		Pulsed Laser Deposition - Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
Lecture 14		Chemical Vapour Deposition - Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
		Sol Gel Technique -Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
Lecture 15		Electro Deposition -Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
		Spray Pyrolysis -Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.

Lecture 16		Hydrothermal Synthesis - Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
		Colloidal Method -Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
Lecture 17		Molecular Beam Epitaxy (MBE) - Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
Lecture 18	Characterization of Nanostructures *(XRD Analysis)*	X-Ray Diffraction -Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
Lecture 19		Analysis of XRD Peaks from Machine Data and Calculation of Miller Indices and Planes from XRD Machine Data. Numerical.
Lecture 20	Characterization of Nanostructures *(Optical Spectroscopy)*	Optical Spectroscopy -Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
		Analysis of UV-vis spectral Machine Data, Plot of Curve and Calculation of Band Gap, SPR, etc. Numerical.
Lecture 21	Characterization of Nanostructures *(Scanning Electron Microscopy)*	Scanning Electron Microscopy (SEM) -Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.

		Analysis of SEM Images, EDAX Analysis, etc.
Lecture 22	Characterization of Nanostructures *(Transmission Electron Microscopy)*	Transmission Electron Microscopy (TEM) -Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
Lecture 23		Analysis of TEM Images, EDAX and SAED Analysis, Analysis of Fringe and Calculation of Crystal Plane etc.
Lecture 24	Characterization of Nanostructures *(Atomic Force Microscopy)*	Atomic Force Microscopy (AFM) - Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
		Analysis of AFM Images
Lecture 25	Characterization of Nanostructures *(Scanning Tunnelling Microscopy)*	Scanning Tunnelling Microscopy (STM) -Definition, Experimental Design, Diagram, Working Procedure, Discussion, Applications, Advantages and Limitations.
		Analysis of STM Images
Lecture 26	Summary & Discussion about Questions	Summary and Discussion about Miscellaneous Questions.

Instructions for preparation of 'Teaching Plan':

(a) Total Number of lectures should be about 75% of the actual classes during the last corresponding semester or anticipated classes during the stipulated time of the particular semester, whichever is less;

(b) The sample given above is only explanatory in nature;

(c) To start with, prepare Teaching Plan only for Core Course (Hons.) papers. Teaching Plan for other papers like GE Papers, DSC Papers, DSE Papers, AECC Papers would be done only after successful completion of the preparation of Teaching Plan for CC Papers.

(d) For any query feel free to call me. We need to develop one robust DCF and for that your valued suggestion would be a good input.

s/d Principal

NARAJOLE RAJ COLLEGE

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NOTICE 14.02.2021

Attn All HoDs: Internal Assessment Test Regarding
You are requested to note the followings:

(1) Answer Booklet (first page) and Answer Booklet (additional page) are to be shared in concerned students' group immediately so that they can have print out of these well before;

(2) Students are to given specific instruction to the effect that for all the papers they are to use the first page of the Answer Booklet compulsory. They may use one or two of the additional page of the Answer Booklet;

(3) DCF for Question Paper is to be used for preparation of question papers. Question paper will be accepted ONLY IN THE GIVEN DCF AND NOT IN ANY OTHER FORMAT;

(4) Specific instructions regarding schedule and modalities of internal assessment will be given by me in due course of time.

Dr. Anupam Parua
Principal
Narajole Raj College

Principal
Narajole Raj College
Narajole-721211

NARAJOLE RAJ COLLEGE

(NAAC Accredited B Grade Govt.-Aided College)

NARAJOLE: PASCHIM MEDINIPUR: PIN-721211

NOTICE 20.02.2021

All the teachers are requested to note the followings:

(1) Internal Assessment will be held as per the schedule already circulated (through posting in College web-site and through HoDs);

(2) For smooth conduct of the internal assessment NO ROSTER DUTY WILL BE FOLLOWED FOR THE COMING WEEK. ALL THE TEACHERS ARE TO MAKE THEMSELVES AVAILABLE FOR ALL WORKING DAYS (excepting for medical emergency of self or of any family members, pre-approved leave, election duty or other unforeseen contingencies);

(3) HoDs are to shoulder the responsibility of posting question papers in concerned students' WhatsApp group in scheduled time;

(4) Written answer scripts will be received in hard copies in the College. For this separate rooms will be provided for each department. Collection of the scripts will be joint responsibility of all the members of the Department. Allocation of rooms for the said purpose will be notified soon;

(5) Students are to write their class roll number in their answer scripts.

Dr. Anupam Parua
Principal
Narajole Raj College

Principal
Narajole Raj College
Narajole-721211

রেজল্যুশন / Resolution Adopted

Narajole Raj College

ESTD.-1966

(NAAC Accreditaed B Grade Govt. Aided College affiliated to Vidyasagar University)

Narajole, Paschim Medinipur-721211
Phone: 9635665468, **Email:** narajolerajcollege@rediffmail.com

Academic Committee

Date-09/04/2022

Notice

Notice is hereby given that a meeting of the Academic Committee will be held on 12.04.2022 at 11:30 am. In the Chamber of the Vice-Principal to get together of the Vice-Principal and the members of the academic –Committee.

Dr. Ranajit Kumar Khalua
Chairman-
Vice-Principal
Narajole Raj College
P.O.- Narajole
Dist.- Paschim Medinipur, 721211

Members:

(1) Dr. Nilanjana Bhattacharya (HOD-Bengali)
(2) Dr. Rajasree Debnath (HOD-Political Science)
(3) Prof. Soma Debray (HOD - English)
(4) Dr. Uttam Kumar Kanp (HOD-Botany)
(5) Dr. Tapamendu Kamilya (HOD-Physics)
(6) Prof. Anustup Chattopadhyaya (HOD-Sanskrit)
(7) Prof. Barun Kumar Mondal (HOD-Chemistry)
(8) Prof. Baisali Guha (HOD, History)
(9) Prof. Subhasis Das (HOD-Geography)
(10) Dr. Poulami Adhikary Mukherjee (HOD - Zoology)
(11) Dr. Tanuka Acharya (HOD-Philosophy)
(12) Dr. Akul Rana (HOD -Mathematics)
(13) Dr. Parimal Dua (HOD, Physiology)
(14) Prof. Mosibul Ali (HOD, Education)
(15) Dr. Atanu Nanda (HOD, Physical Education)
(16) Dr. Dipak Shom (TCS & Convener, Academic Committee)
(17) Prof. Barun Rout (Convener, Technology Committee)
(18) Dr. Sk. Mohammad Aziz (Convener, Technology Committee)
(19) Prof. Praga Paramita Mondal (Coordinator, IQAC)

Principal
Narajole Raj College
Narajole Pin 721 211

মিটিং রেজল্যুশন বহি
MEETING RESOLUTION BOOK

মিটিং নং / Meeting No.	
তারিখ / Date	12/04/2022

উপস্থিত সভ্যগণের নাম
NAME OF MEMBERS PRESENT

স্থান / Place	
সময় / Time	11.30 A.m.

১। 1. Ranajit Kr. Khalua
২। 2. Dipak Ghosh
৩। 3. Nilanjan Bhattacharyya
৪। 4. A. Chattopadhyaya
৫। 5. Subhasis Das
৬। 6. Uttam Kamal Kundu
৭। 7. Baren Kumar Mandal
৮। 8. Sk Moshrul Ali
৯। 9. Rajashree Debnath 12.4.22
১০। 10. Poulami Adhikary Mukherjee 12/4/22
১১। 11. Tapananda Kamilya 12/4/22
১২। 12. Basanti Guha.
১৩। 13. Tannistha Acharya. 12/04/22
১৪। 14. Atanu Nanda 12/04/2022
১৫। 15. Parimal Guria.
১৬। 16.
১৭। 17.
১৮। 18.
১৯। 19.
২০। 20.
২১। 21.

নং / No.

রেজল্যুশন / Resolution Adopted

Proceedings of the meeting of the Academic Committee held on 12/4/2022 at 11.30 AM.

Venue: Chamber of the Vice- Principal

Meeting No – 6

Academic Session 2021-2022

The meeting was chaired by Dr. Ranajit Kumar Khalua, the Vice- Principal of the College and the Chairman of the Academic Committee. Detailed discussing took place about the application of the Students and the following resolutions were adopted.

It was the first meeting of the vice - Principal with academic committee as he handed the charge on & from 23/03/2022 from the Principal Dr. Anupam Parua. So all member expressed their gratitude to the vice- Principal.

As per application of the students to postponed the internal Assessment on 13/04/2022, due to Chaitra Sankranti, the Committee unanimously decided that the internal Assessment will be held on 18/01/2022.

As it was a get together meeting, so the meeting ended with reciprocal vote of thanks to and from the chair.

Khalua.
Dr. Ranajit Kumar Khalua
(Chairman)
Vice-Principal
Narajole Raj College
P.O.- Narajole
Dist.- Paschim Medinipur, 721211

Principal
Narajole Raj College

রেজল্যুশন / Resolution Adopted

NARAJOLE RAJ COLLEGE

(NAAC Accredited B Grade Govt. – Aided College)

NARAJOLE: PASCHIM MEDINIPUR: PIN-721211

Academic Committee

Notice

Dated: 28.04.2022

Notice is hereby given that a meeting of the Academic Committee will be held on 29.04.2022 at 3:00 p.m. to discuss the following agenda. Please make it convenient to attend the meeting.

Agenda:

1. Syllabus completion and academic activity management in May – June 2022
2. Implementation of resolutions adopted in the last meeting of the IQAC
3. Miscellaneous, if any, with the permission of the Chair

Signature of the Vice Principal
Sd/- Dr. Ranajit Kumar Khalua

Vice Principal
Narajole Raj College
P.O.- Narajole
Dist. Paschim Medinipur, 721211

Members:

(1) Dr. Nilanjana Bhattacharya (HOD – Bengali)
(2) Dr. Rajasree Debnath (HOD – Political Science
(3) Prof. Soma Debray (HOD – English)
(4) Dr. Uttam Kumar Karp (HOD – Botany)
(5) Dr. Tapanendu Kamilya (HOD – Physics)
(6) Prof. Anustup Chattopadhyaya (HOD – Sanskrit)
(7) Prof. Barun Kumar Mondal (HOD – Chemistry)
(8) Prof. Baisali Guha (HOD, History)
(9) Prof. Subhasis Das (HOD – Geography)
(10) Dr. Poulami Adhikary Mukherjee (HOD – Zoology)
(11) Dr. Tanuka Acharya (HOD – Philosophy)
(12) Dr. Akul Rana (HOD – Mathematics)
(13) Dr. Parimal Dua (HOD, Physiology)
(14) Prof. Mosibul Ali (HOD, Education)
(15) Dr. Atanu Nanda (HOD, Physical Education)
(16) Dr. Dipak Shom (TCS & Convener, Academic Committee)
(17) Prof. Barun Rout (Convener, Technology Committee)
(18) Dr. Sk. Mohammad Aziz (Convener, Technology Committee)
(19) Prof. Pragna Paramita Mondal (Coordinator, IQAC) 29.04.22

Principal
Narajole Raj College
Narajole Pin 721211

মিটিং রেজল্যুশন বহি
MEETING RESOLUTION BOOK

মিটিং নং / Meeting No.		উপস্থিত সভ্যগণের নাম		স্থান / Place	Teachers Lounge
তারিখ / Date	29/04/2022	NAME OF MEMBERS PRESENT		সময় / Time	3.45 p.m

১। 1. Ranajit Kr. Khalua	৮। 8. Tarun Acharya	১৫। 15. Swapan Kumar Mandal
২। 2. Dipak Ghorai	৯। 9. Paulami Adhikary Mukherjee	১৬। 16. Subhasis Dey
৩। 3. A. Chattopadhyaya	১০। 10. [illegible]	১৭। 17. Tapananda Kandar
৪। 4. [illegible]	১১। 11. Atanu Nanda	১৮। 18.
৫। 5. Sk Mohammad [illegible]	১২। 12. Atul Rapal	১৯। 19.
৬। 6. Nilanjan Bhattacharyya	১৩। 13. Parimal Dhara	২০। 20.
৭। 7. Biswajit Guha	১৪। 14. Rajasree Kolandt	২১। 21.

নং / No. — রেজল্যুশন / Resolution Adopted

BHARAT STATIONERS, 15 College Square, Kolkata - 73 Ph. 2241-9875, 2241-6828

রেজল্যুশন / Resolution Adopted

Proceedings of the meeting of the Academic Committee held on 29/04/2022 at 3.45 PM.

Venue: Teachers' Lounge

Meeting No - 7

Academic Session 2021-2022

The meeting was Chaired by Dr. Ranajit Kumar Khalua, Vice-Principal of the College & Chairman of the Academic Committee. Detailed discussions took place on the noted agenda and the following resolutions ware adopted.

The Committee unanimously decided that within 14th may 2022 new online routine will be framed for the 2nd, 4th and 6th Semester. To frame online routine, master routine will be followed. Each department will take necessary steps to frame their class routine. H.O.D of each department will monitor about the online classes. Teacher will sent their class link to the technology Committee regularly.

In 2nd agenda it is decided that to implement the resolution adapted in the last meeting of the IQAC all department will take necessary steps to find out Slow and advance learner. "When the College will come back in offline mode a written examination will be taken to separate Slow and advance learners. After completion of the exam each depoartment will take necessary Steps for the Slow Learners.

It is also decided that the feedback form of 6th Semester will be taken in online mode. The technology Committee will send the feedback form in each department and department will supervise to full fill the mission.

As there was no such agenda to discuss the meeting ended with reciprocal vote of thanks to & from Chair.

Principal
Narajole Raj College

Dr. Ranajit Kumar Khalua
(Chairman)

Vice-Principal
Narajole Raj College
P.O.- Narajole
Dist - Paschim Medinipur, 721211

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Day	Semester	10.00-11.00	11.00-12.00	12.00-01.00	01.00-02.00
Monday	**I (H)**		C1T (Phys)-Gen Lab C1T (Chem)-Org L C1T (Bot)-L1 C1T (Zoo)-L1 C1T (Math)-Dept C1T (Geo)-A7	C2T (Phys)-Gen Lab C2T (Chem)-Org L C2T (Bot)-L1 C2T (Zoo)-L1 C2T (Math)-Dept C2T (Geo)-A7	GE1T (Chem)- GE1T (Phys)-Gen Lab GE1T (Bot)-L1 GE1T (Zoo)-L1 GE1T (Math)-Comp. Lab GE1T (Geo)-Lab GE1T (Physio)-Lab-SKK
	I (G)	DSC-1/2/3AT-Chem- Org Lab	DSC-1/2/3AT-Chem-TR	DSC-1/2/3A-Zoo-Tech. Room	DSC-1/2/3AT-Physio-Lab1-SKK DSC-1/2/3AT-Geo-TR
	III (H)	C5P (Phys)-Com Lab C5P (Chem)-Phyc L C5P (Bot)-L1 C5P (Zoo)-L1	C5P (Phys)-Com Lab C5P (Chem)-Phyc Lab C5P (Bot)-L2 C5P (Zoo)-L2 C5T (Math)-TR C5T (Geo)-A8	C5T (Phys)-Dept. Annex C5T (Chem)-Com Lab C5T (Bot)-L2 C5T (Zoo)-L2 C5T (Math)-TR C5T (Geo)-SH Annex	C6T (Phys)-Dept. Annex C6T (Chem)-Org L C6T (Bot)-L2 C6T (Zoo)-L2 C6T (Math)-Dept C6T (Geo)-F5
	III (G)	DSC-1/2/3CT-Phys-Elec. Lab DSC-1/2/3CT-Bot-L3	DSC-1/2/3CT-Chem-Geo Annex	DSC-1/2/3CT-Math-Geo Annex DSC-1/2/3CT-Zoo-Annex Lab	DSC-1/2/3CT-Physio-Lab2-SKK DSC-1/2/3CT-Geo-Geo Annex-

	V (H)		DSE1T (Phys)-Electri. Lab DSE1P(Chem)-Iorg Lab DSE1P (Bot)-L3 DSE1P (Zoo)-CL1 DSE1T (Math)-F5 DSE1P (Geo)-Lab	DSE2T (Phys)-Electri. Lab DSE1P(Chem)-Iorg Lab DSE1P (Bot)-L3 DSE1P (Zoo)-CL1 DSE2T (Math)-G6 DSE1P (Geo)-Lab	C12T (Phys)-Electri. Lab C12T (Chem)-Iorg L C12T (Bot)-L3 C12T (Zoo)-CL1 C12T (Math)-F. Annex C12T (Geo)-A7
	V (G)	DSE-1/2/3AT-Phys-Elecn. Lab DSE-1/2/3AT-Bot-A4	DSE-1/2/3AT-Chem-Physics Annex	DSE-1/2/3AT-Zoo-Physio. L	DSE-1/2/3AT-Physio-SKK DSE-1/2/3AT-Geo-A8
Tuesday	**I (H)**		C2T (Phys)-Gen Lab C2T (Chem)-Org L C2T (Bot)-L1 C2T (Zoo)-L1 C2T (Math)-Dept C2T (Geo)-Lab	C1T (Phys)-Gen Lab C1T (Chem)-Org L C1T (Bot)-L1 C1T (Zoo)-L1 C1T (Math)-Dept C1T (Geo)-Lab	GE1P (Chem)- GE1P (Phys)-Electron. Lab GE1P(Bot)-L1 GE1P (Zoo)-L1 GE1T (Math)-Dept GE1T (Geo)-Lab GE1P (Physio)-Lab-SKK
	I (G)	DSC-1/2/3AT-Phys-Gen Lab DSC-1/2/3AT-Bot-L2	DSC-1/2/3AT-Phys-Elecn. Lab DSC-1/2/3AT-Bot-SH Annex	DSC-1/2/3AT-Math-TR DSC-1/2/3AT-Zoo-TR	DSC-1/2/3AP-Chem-Lab

	III (H)		C5T (Phys)-Dept. Annex C5T (Chem)-Iorg L C5T (Bot)-L2 C5T (Zoo)-L2 C5T (Math)-F. Annex C5T (Geo)-A7	C6T (Phys)-Dept. Annex C6T (Chem)-Iorg L C6T (Bot)-L2 C6T (Zoo)-L2 C6T (Math)-F. Annex C6T (Geo)-A7	C7T (Phys)-Dept. Annex C7T (Chem)-Org L C7T (Bot)-L2 C7T (Zoo)-L2 C7T (Math)-F. Annex C7T (Geo)-A7
	III (G)	DSC-1/2/3CT-Chem-ILab	DSC-1/2/3CT-Phys-Opt. Lab DSC-1/2/3CT-Bot-A4	DSC-1/2/3CT-Math-Geo Annex DSC-1/2/3CT-Zoo-Annex Lab	DSC-1/2/3CP-Chem Lab
	V (H)		C11T (Phys)-Electric. Lab C11T (Chem)-Com. Lab C11T (Bot)-L3 C11T (Zoo)-CL1 C11T (Math)-F5 C11T (Geo)-S2	C12T (Phys)-Electric. Lab C12T (Chem)-Com. Lab C12T (Bot)-L3 C12T (Zoo)-CL1 C12T (Math)-S4 C12T (Geo)-A4	DSE2T (Phys)-Electric. Lab DSE2T(Chem)-Iorg L DSE2T (Bot)-L3 DSE2T (Zoo)-CL1 DSE2T (Math)-Comp. Lab DSE2T (Geo)-SH Annex
	V (G)	DSE-1/2/3AT-Chem-S2	DSE-1/2/3AT-Phys-Opt. Lab DSE-1/2/3AT-Bot-TR	DSE-1/2/3AT-Math-A8 DSE-1/2/3AT-Zoo-A6	DSE-1/2/3AP-Chem-Lab
Wednesday	**I (H)**		C1T (Phys)-Gen Lab C1T (Chem)-Org L C1T (Bot)-L1 C1T (Zoo)-L1 C1T (Math)-F5 C1T (Geo)-Lab	C2T (Phys)-Gen Lab C2T (Chem)-Org L C2T (Bot)-L1 C2T (Zoo)-L1 C2T (Math)-Dept C2T (Geo)-Lab	GE1T (Chem)- GE1T (Phys)-Gen Lab GE1T (Bot)-L1 GE1T (Zoo)-L1 GE1T (Math)-Dept GE1T (Geo)-A7 GE1T (Physio)-Lab-PD

	I (G)	DSC-1/2/3AT-Math-Dept DSC-1/2/3AT-Zoo-L1	DSC-1/2/3AT-Physio-Lab1-PD DSC-1/2/3AT-Geo-Tech. Room-	DSC-1/2/3AT-Chem-TR	DSC-1/2/3AP-Physio-Lab1-PD DSC-1/2/3AP-Geo-Lab
	III (H)		C5T (Phys)-Dept. Annex C5T (Chem)-Iorg L C5T (Bot)-L2 C5T (Zoo)-L2 C5T (Math)-Dept C5T (Geo)-A7	C6T (Phys)-Dept. Annex C6T (Chem)-Iorg L C6T (Bot)-L2 C6T (Zoo)-L2 C6T (Math)-F. Annex C6T (Geo)-A7	C7T (Phys)-Dept. Annex C7T (Chem)-Iorg L C7T (Bot)-L2 C7T (Zoo)-L2 C7T (Math)-TR C7T (Geo)-A7
	III (G)	DSC-1/2/3CT-Math-F. Annex DSC-1/2/3CT-Zoo-L2	DSC-1/2/3CT-Physio-Lab2-PD DSC1/2/3CT-Geo-Geo Annex-	DSC-1/2/3CT-Phys-Electron. lab DSC-1/2/3CT-Bot-Geo Annex	DSC-1/2/3CT-Chem-Tech Room
	V (H)	DSE2P(Chem)-Org L DSE2P (Bot)-L3 DSE2P (Zoo)-L3 DSE2T (Geo)-Lab	DSE2P(Chem)-Org. Lab DSE2P (Bot)-L3 DSE2P (Zoo)-L3 DSE2T (Geo)-F. Annex	C11T (Phys)-Electric. Lab C11T (Chem)-Com. Lab C11T (Bot)-L3 C11T (Zoo)-L3 C11T (Math)-S1 C11T (Geo)-A8	DSE1T (Phys)-Electric. Lab DSE1T(Chem)-Org L DSE1T (Bot)-L3 DSE1T (Zoo)-L3 DSE1T (Math)-F Annex DSE1T (Geo)-Comp. Lab

	V (G)	DSE-1/2/3AT-Math-	DSE-1/2/3AT-Physio-Comp Lab-SKK DSE-1/2/3AT-Geo-Lab-	DSE-1/2/3AT-Chem-Teac. R	DSE-1/2/3AT-Chem-Phyc Lab
Thursday	**I (H)**		C2P (Phys)-Gen Lab C2P (Chem)-Phyc Lab C2P (Bot)-L1 C2P (Zoo)-L1 C2P (Geo)-Lab C2T (Math)-Dept	C2P (Phys)-Gen Lab C2P (Chem)-Phyc Lab C2P (Bot)-L1 C2P (Zoo)-L1 C2P (Geo)-Lab C1T (Math)-Dept	GE1T (Chem)- GE1T (Phys)-Gen Lab GE1T (Bot)-L1 GE1T (Zoo)-L1 GE1T (Math)-Dept GE1T (Geo)-A8 GE1T (Physio)-Lab-PD
	I (G)	DSC-1/2/3AP-Chem-Lab	DSC-1/2/3AP-Chem-Lab	DSC-1/2/3AT-Math-Geo Annex DSC-1/2/3AT-Zoo-Annex lab	DSC-1/2/3AT-Chem-TR-
	III (H)		C5P (Phys)-Com. Lab C5P (Chem)-Phy L C5P (Bot)-L2 C5P (Zoo)-L2 C6T (Math)-Dept	C5P (Phys)-Com. Lab C5P (Chem)-Phy Lab C5P (Bot)-L2 C5P (Zoo)-L2 C5T (Math)-F. Anx C5T (Geo)-A7	C6T (Phys)-Dept. Annex C6T (Chem)-Iorg L C6T (Bot)-L2 C6T (Zoo)-L2 C6T (Math)-F. Anx C6T (Geo)-A7

	III (G)	DSC-1/2/3CP-Chem-lab	DSC-1/2/3CP-Chem-Lab	DSC-1/2/3CT-Math-TR DSC-1/2/3CT-Zoo-TR	DSC-1/2/3CT-Physio-Lab-PD DSC-1/2/3CT-Geo-Lab-
	V (H)		C11T (Phys)-Electric. Lab C11T (Chem)-Org Lab C11T (Bot)-L3 C11T (Zoo)-CL1 C11T (Math)-F. Anx C11T (Geo)-SH Anx	C12T (Phys)-Electric. Lab C12T (Chem)-Physical Lab C12T (Bot)-L3 C12T (Zoo)-CL1 C12T (Math)-G7 C12T (Geo)-SH Anx	DSE1T (Phys)-Electric. Lab DSE1T(Chem)-Org L DSE1T (Bot)-L3 DSE1T (Zoo)-CL1 DSE1T (Math)-Com lab DSE1T (Geo)-A4
	V (G)	DSE-1/2/3AP-Chem-Lab	DSE-1/2/3AP-Chem-Lab	DSE-1/2/3AT-Math-A8 DSE-1/2/3AT-Zoo-Physiology Lab	DSE-1/2/3AT-Phys-Com. Room DSE-1/2/3AT-Bot-Lab

Friday	**I (H)**		C2T (Phys)-Gen Lab C2T (Chem)-Phyc Lab C2T (Bot)-L1 C2T (Zoo)-L1 C2T (Math)-Dept C2T (Geo)-Lab	C1T (Phys)-Gen. Lab C1T (Chem)-Phyc Lab C1T (Bot)-L1 C1T (Zoo)-L1 C1T (Math)-Dept C1T (Geo)-Lab	GE1P (Chem)- GE1P (Phys)-Electron. Lab GE1P(Bot)-L1 GE1P (Zoo)-L1 GE1P (Physio)-PD GE1T (Math)-Dept GE1T (Geo)-Lab
	I (G)	DSC-1/2/3AP-Physio-Lab-SKK DSC-1/2/3AP-Geo-Lab	DSC-1/2/3AP-Physio-Lab-SKK DSC-1/2/3AP-Geo-Lab	DSC-1/2/3AT-Math-TR	DSC-1/2/3AP-Zoo-Lab
	III (H)	C6P (Phys)-Electric. Lab C6P (Chem)-Iorg Lab C6P (Bot)-L2 C6P (Zoo)-L2 C6P (Geo)-Lab	C6P (Phys)-Electric. Lab C6P (Chem)-Iorg L C6P (Bot)-L2 C6P (Zoo)-L2 C6P (Geo)-Lab C6T (Math)-F. Annex	SEC1T (Phys)-Gen. Lab SEC1T(Chem)-Org L SEC1T (Bot)-L2 SEC1T (Zoo)-L2 SEC1T (Math)-F. Anx SEC1T (Geo)-A7	C5T (Phys)-Dept. Annex C5T (Chem)-Iorg L C5T (Bot)-L2 C5T (Zoo)-L2 C5T (Math)-F. Anx C5T (Geo)-A7
	III (G)	DSC-1/2/3CP-Phys-Lab DSC-1/2/3CP-Bot4-Lab	DSC-1/2/3CP-Phys-Lab DSC-1/2/3CP-Bot-Lab	DSC-1/2/3CT-Math-Geo Annex DSC-1/2/3CP-Zoo-Annex Lab	DSC-1/2/3CP-Zoo-Lab

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	V (H)		C12T (Phys)-Dept. Annex C12T (Chem)-Com Lab C12T (Bot)-L3 C12T (Zoo)-CL1 C12T (Math)-SH Anx C12T (Geo)-F5	C11T (Phys)-Dept. Annex C11T (Chem)-Com Lab C11T (Bot)-L3 C11T (Zoo)-CL1 C11T (Math)-S2 C11T (Geo)-SH Anx	DSE2T (Phys)-Electric. Lab DSE2T(Chem)-Org L DSE2T (Bot)-L3 DSE2T (Zoo)-CL1 DSE2T (Math)-Com Lab DSE2T (Geo)-SH. Anx
	V (G)	DSE-1/2/3AP-Phys-Lab DSE-1/2/3AP-Bot-Lab	DSE-1/2/3AP-Phys-Lab DSE-1/2/3AP-Bot-Lab	DSE-1/2/3AT-Math-A8 DSE1/2/3A1P-Zoo-Lab	DSE-1/2/3AP-Zoo-Lab
Saturday	**I (H)**		C1P (Phys)-Com. Lab C1P (Chem)-Org L C1P (Bot)-L1 C1P (Zoo)-L1 C1T (Math)-Dept C1T (Geo)-Lab	C1P (Phys)-Com. Lab C1P (Chem)-Org L C1P (Bot)-L1 C1P (Zoo)-L1 C2T (Math)-Dept	GE1T (Chem)- GE1T (Phys)-Gen. Lab GE1T (Bot)-L1 GE1T (Zoo)-L1 GE1T (Math)-Dept GE1T (Geo)-Lab GE1T (Physio)-Lab-PD
	I (G)	DSC-1/2/3AP-Zoo-Lab	DSC-1/2/3AP-Zoo-Lab	DSC-1/2/3AT-Phys-Lab DSC-1/2/3AT-Geo. Annex	DSC-1/2/3AT-Math-

	III (H)	C7P (Phys)-Electron. Lab C7PChem)- Org L C7P (Bot)-L2 C7P (Zoo)-L2 C7P (Math)-Com Lab C7T (Geo)-Lab	C7P (Phys)-Electron. Lab C7PChem)- Org L C7P (Bot)-L2 C7P (Zoo)-L2 C7P (Math)-Com Lab C7T (Geo)-F5	SEC1T (Phys)-Electron Lab SEC1T (Bot)-L2 SEC1T (Zoo)-L2 SEC1T (Math)-TR SEC1T (Geo)-S2	GE3T (Phys)-Electric. Lab GE3T (Bot)-L2 GE3T (Zoo)-L2 GE3T (Chem)-Org L GE3T (Geo)-F. Anx GE3T (Physio)-Lab-SKK
	III (G)	DSC-1/2/3CP-Zoo-Lab	DSC-1/2/3CP-Zoo-Lab	SEC1P (Phys)-Lab SEC1P (Bot)-Lab SEC1P (Zoo)-Lab SEC1P (Geo)-Lab SEC1P-(Chem)-Lab SEC1P- (Physio)-Lab-SKK	SEC1P (Phys)-Lab SEC1P (Bot)-Lab SEC1P (Zoo)-Lab SEC1P (Geo)-Lab SEC1P-(Chem)-Lab SEC1P- (Physio)-Lab-SKK
	V (H)		DSE1T (Phys)-Electric. Lab DSE1T(Chem)-Inorg. Lab DSE1T (Bot)-L3 DSE1T (Zoo)-CL1 DSE1T (Math)-F. Anx DSE1T (Geo)-A7	DSE2T (Phys)-Electric. Lab DSE1P(Chem)-Iorg L DSE1P (Bot)-L3 DSE1P (Zoo)-CL1 DSE2T (Math)-F. Anx DSE1P (Geo)-Lab	DSE1T (Phys)-Electron. Lab DSE1P(Chem)-Iorg Lab DSE1P (Bot)-L3 DSE1P (Zoo)-CL1 DSE1T (Math)-F3 DSE1P (Geo)-Lab
	V (G)	DSE-1/2/3AP-Zoo-Lab	DSE-1/2/3AP-Zoo-Lab	SEC3P (Phys)-Lab SEC3P (Bot)-Lab SEC3P (Zoo)-Lab SEC3P (Geo)-Lab SEC3P-(Chem)-Lab SEC3P- (Physio)-Lab-PD	SEC3P (Phys)-Lab SEC3P (Bot)-Lab SEC3P (Zoo)-Lab SEC3P (Geo)-Lab SEC3P-(Chem)-Lab SEC3P- (Physio)-Lab-PD

02.00-03.00	03.00-04.00	04.00-05.00			
C1P (Phys)-Com. Lab C1P (Chem)-Org L C1P (Bot)-L1 C1P (Zoo)-L1 C1T (Geo)-Lab	C1P (Phys)-Com Lab C1P(Chem)-Org L C1P (Bot)-L1 C1P (Zoo)-L1				
DSC-1/2/3AP-Phys-Lab DSC-1/2/3AP-Bot-Lab	DSC-1/2/3AP-Phys-Lab DSC-1/2/3AP-Bot-Lab	DSC-1/2/3AT-Math-A7			
C7T (Phys)-Dept. Annex C7T (Chem)-Iorg L C7T (Bot)-L2 C7T (Zoo)-L2 C7T (Math)-Dept C7T (Geo)-A7	GE3P (Phys)-Electri. Lab GE3P (Bot)-L2 GE3P (Zoo)-L2 GE3P (Chem)-Iorg L GE3T (Geo)-S6 GE3P (Physio)-Lab-SKK	GE3P (Phys)-Electri. Lab GE3P (Bot)-L2 GE3P (Zoo)-L2 GE3P (Chem)-Iorg L GE3P (Physio)-Lab-SKK			
DSC-1/2/3CP-Physio-Lab2-SKK DSC-1/2/3CP-Geo-Lab	DSC-1/2/3CP-Physio-Lab2-SKK DSC-1/2/3CP-Geo-Lab	DSC-1/2/3CT-Math-Dept-Geo Annex			

DSE1T (Phys)-Electric. Lab DSE1T(Chem)-F5 DSE1T (Bot)-L3 DSE1T (Zoo)-CL1 DSE1T (Math)-A2 DSE1T (Geo)-SH. Annex	C11P (Phys)-Com. Lab C11P(Chem)-Iorg. lab C11P (Bot)-L3 C11P (Zoo)-CL1 C11T (Math)-Dept C11P (Geo)-Lab	C11P (Phys)-Com. Lab C11P(Chem)-Iorg. Lab C11P (Bot)-L3 C11P (Zoo)-CL1 C11P (Geo)-Lab			
DSE-1/2/3AP-Physio-Lab-SKK DSE-1/2/3AP-Geo-lab	DSE-1/2/3AP-Physio-Lab-SKK DSE-1/2/3AP-Geo-Lab	DSE-1/2/3AT-Math-F. Annex			
GE1P (Chem)- GE1P (Phys)-Electron. Lab GE1P(Bot)-L1 GE1P (Zoo)-L1 GE1P (Physio)-Lab-SKK	**AECC: ENG-Sem. Hall**				
DSC-1/2/3AP-Chem-Lab	**AECC: ENG-Sem. Hall**	DSC-1/2/3AT-Physio-Lab-PD DSC-1/2/3AT-Geo-Lab			

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GE3T (Phys)-Gen. Lab GE3T (Bot)-L2 GE3T (Zoo)-L2 GE3T (Chem)-Org L GE3T (Geo)-A7 GE3T (Physio)-Lab-PD	C6P (Phys)-Electric. Lab C6P (Chem)-Inorg L C6P (Bot)-L2 C6P (Zoo)-L2 C6P (Geo)-Lab	C6P (Phys)-Electric. Lab C6P (Chem)-Inorg L C6P (Bot)-L2 C6P (Zoo)-L2 C6P (Geo)-Lab			
DSC-1/2/3CP-Chem-Lab	DSC-1/2/3CT-Physio-Lab1-PD DSC-1/2/3CT-Geo-Lab1	SEC-1T-Math-Dept			
C12P (Phys)-Electric. Lab C12P (Chem)-Org L C12P (Bot)-L3 C12P(Zoo)-CL1 C12T (Math)-Dept C12P (Geo)-Lab	C12P (Phys)-Electric. Lab C12P (Chem)-Org L C12P (Bot)-L3 C12P(Zoo)-CL1 C12P (Geo)-Lab				
DSE-1/2/3AP-Chem-Lab	DSE-1/2/3AP-Phys-Lab DSE-1/2/3AP-Bot-Lab	DSE-1/2/3AP-Phys-Lab DSE-1/2/3AP-Bot-Lab			
C2P (Phys)-Gen Lab C2P (Chem)-Phyc L C2P (Bot)-L1 C2P (Zoo)-L1 C2P (Geo)-Lab	C2P (Phys)-Gen Lab C2P (Chem)-Phyc L C2P (Bot)-L1 C2P (Zoo)-L1 C2P (Geo)-Lab				

DSC-1/2/3AP-Physio-Lab1-PD DSC-1/2/3AP-Geo-Lab					
GE3T (Phys)-Electric. Lab GE3T (Bot)-L2 GE3T (Zoo)-L2 GE3T (Chem)-Iorg L GE3T (Geo)-A7 GE3T (Physio)-Lab-PD	C7P (Phys)-Electron. Lab C7P(Chem)-Org L C7P (Bot)-L2 C7P (Zoo)-L2 C7P (Math)-Com Lab	C7P (Phys)-Electron. Lab C7P(Chem)-Org L C7P (Bot)-L2 C7P (Zoo)-L2 C7P (Math)-Com Lab			
DSC-1/2/3CP-Phys-lab DSC-1/2/3CP-Bot-Lab	DSC-1/2/3CP-Phys-Lab DSC-1/2/3CP-Bot lab				
DSE2T (Phys)-Dept. Annex DSE2T(Chem)-Org Lab DSE2T (Bot)-L3 DSE2T (Zoo)-L3 DSE2T (Math)-Dept DSE2T (Geo)-F. Annex	C11P (Phys)-Com. Lab C11P(Chem)-Iorg L C11P (Bot)-L3 C11P (Zoo)-L3 C11T (Math)-Dept C11P (Geo)-Lab	C11P (Phys)-Com. Lab C11P(Chem)-Iorg L C11P (Bot)-L3 C11P (Zoo)-L3 C11P (Geo)-Lab			

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DSE-1/2/3AT-Math-TR DSE-1/2/3AT-Zoo-CL1	DSE-1/2/3AT-Physio-Lab2-PD DSE-1/2/3AT-Geo-A7				
AECC: ENG-Sem. Hall					
AECC: ENG-Sem. Hall	DSC-1/2/3AT-Phys-Lab DSC-1/2/3AT-Bot-Lab	DSC-1/2/3AT-Physio-Lab-PD DSC-1/2/3AT-Geo-Geo Annex-			
C7T (Phys)-Dept. Annex C7T (Chem)-Iorg L C7T (Bot)-L2 C7T (Zoo)-L2 C7T (Math)-Dept C7T (Geo)-Lab	GE3P (Phys)-Electric. Lab GE3P (Bot)-L2 GE3P (Zoo)-L2 GE3P (Chem)-Iorg L GE3T (Geo)-F. Anx GE3P (Physio)-Lab-PD	GE3P (Phys)-Electric. Lab GE3P (Bot)-L2 GE3P (Zoo)-L2 GE3P (Chem)-Iorg L GE3P (Physio)-Lab-PD			

DSC-1/2/3CT-Phys-Lab DSC-1/2/3CT-Bot-Geo. Annex	DSC-1/2/3CT-Chem-Org L	SEC1T (Phys)-A1 SEC1T (Bot)-A2 SEC1T (Zoo)-A3 SEC1T (Math)-A4 SEC1T (Geo)-G1 SEC1T-(Chem)-G3 SEC1T- (Physio)-G4-PD			
DSE2T (Phys)-Electric. Lab DSE2T(Chem)-Org L DSE2T (Bot)-L3 DSE2T (Zoo)-CL1 DSE2T (Math)-F Anx DSE2T (Geo)-A7	C12P (Phys)-Electric. Lab C12P (Chem)-Org L C12P (Bot)-L3 C12P(Zoo)-CL1 C12T (Math)-Dept C12P (Geo)-Lab	C12P (Phys)-Electric. Lab C12P (Chem)-Org L C12P (Bot)-L3 C12P(Zoo)-CL1 C12P (Geo)-Lab			
DSE-1/2/3AT-Phys-Lab DSE-1/2/3AT-Bot-Lab	DSE-1/2/3AT-Physio-Lab-PD DSE-1/2/3AT-Geo-Lab	SEC3T (Phys)-Lab SEC3T (Bot)-Lab SEC3T (Zoo)-Lab SEC3T (Math)-Dept SEC3T (Geo)-Lab SEC3T-(Chem)-Lab SEC3T- (Physio)-Lab-PD			

GE1P(Chem)- GE1P (Phys)- Electron. Lab GE1P(Bot)-L1 GE1P (Zoo)-L1 GE1P (Physio)-Lab- PD					
DSC-1/2/3AP-Zoo- Lab	DSC-1/2/3AP-Phys- Lab DSC-1/2/3AP-Bot- Lab	DSC-1/2/3AP- Phys-Lab DSC-1/2/3AP-Bot- Lab			
GE3T (Phys)-Gen. Lab GE3T (Bot)-L2 GE3T (Zoo)-L2 GE3T (Chem)-Iorg L GE3T (Geo)-Lab GE3T (Physio)-Lab- SKK	SEC1P (Chem)-Iorg L C5T (Math)-Dept	SEC1P (Chem)- Iorg L			
SEC1T (Phys)-Opt Lab SEC1T (Bot)-L3 SEC1T (Zoo)-CL1 SEC1T (Math)-Dept SEC1T (Geo)-F. anx SEC1T-(Chem)- Comp Lab SEC1T- (Physio)Lab- PD	DSC-1/2/3CP- Physio-Lab-PD DSC-1/2/3CP-Geo- Lab	DSC-1/2/3CP- Physio-Lab-PD DSC-1/2/3CP-Geo- Lab			

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DSE2P(Chem)-Org L DSE2P (Bot)-L3 DSE2P (Zoo)-CL1 DSE2T (Geo)S5-	DSE2P(Chem)-Org L DSE2P (Bot)-L3 DSE2P (Zoo)-CL1 DSE2T (Geo)-Lab				
SEC3T (Phys)-S6 SEC3T (Bot)-Lab SEC3T (Zoo)-Lab SEC3T (Math)-A3 SEC3T (Geo)-Lab SEC3T-(Chem)-Lab SEC3T- (Physio)-Lab-SKK	DSE-1/2/3AP-Physio-Lab-SKK DSE1/2/3AP-Geo-Lab	DSE-1/2/3AP-Physio-Lab-SKK DSE1/2/3AP-Geo-Lab			


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Narajole Raj College
Narajole Pin-721 211

Data Capturing Format (DCF) for Distribution of Papers & Classes

Name of the Department: Department of Bengali (UG)
Academic Session: 2021-22 **Semester: Even**

Dr. Nilanjana Bhattacharyya (Associate Professor & Head)

	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-14-T	02	C-10-T	02	BNHCL C-2	02	DSE-4H	02	SEC- 2-H	03	C- 4 -T	02	X	X	13

Dr. Sadhan Chandra Pandit (Assistant Professor - Stage 3)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-3-T	02	C-9-T	02	C-14-T	02	AECC-MIL -1	01	SEC2TG	02	DSE3TH	2	X	X	11

Dr. Dipak Shom (Assistant Professor - Stage 2)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-3-T	02	C-8-T	02	C-9-T	02	SECE-2-T-H	02	C13_T	02	DSE-4-T	02	DSC1B	02	14

Prof. Avijit chakraborty(SACT)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-3-T	02	C-9-T	02	C-14-T	02	SEC2G	02	GE2G	02	X	X	X	X	10

Prof. Madhumita Addhya(SACT)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
GE-2-T	02	C-8-T	02	C13T	02	GE-4-T	02	SEC2G	01	GE2TG	1	X	X	10

Prof. Sanat Pan (SACT)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
GE2T	02	C-10-T	03	DSE-3-T-H	02	BNGCL C -1	01	DSC-1-B	01	SEC-2-T-G	01	DSE-1-B-T	2	12

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Narajole Pin-721 211

Data Capturing Format (DCF) for Distribution of Papers & Classes

Name of the Department: Department of Bengali (UG)

Academic Session: 2021-22 **Semester: Even**

Prof. Dipashree Roy (SACT)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-4-T	02	C-10-T	02	C13-T	02	GE-2-T	02	GE-2-T-G	02	DSC-1D	02	DSE-1-B-T	02	14

Prof. Goutam Jana (SACT)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-4-T	02	C-8-T	02	DSE-3-T-H	02	DSC-1B	02	DSC-1D	02	GE-4-T	02	SEC-4-T-G	02	14

Data Capturing Format (DCF) for Distribution of Papers & Classes

Name of the Department: Department of Bengali (UG)

Academic Session: 2021-22 **Semester: ODD**

Dr. Nilanjana Bhattacharyya (Associate Professor & Head)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-7-T	02	C-11-T	03	GE-1-T	02	DSE-2H	02	SEC-3-G	02	GE-1-G	02	X	X	13

Dr. Sadhan Chandra Pandit (Assistant Professor - Stage 3)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-1-T	02	C-7-T	03	C-12-T	02	DSE-1H	02	DSE-G	02	X	X	X	X	11

Dr. Dipak Shom (Assistant Professor - Stage 2)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-1-T	02	C-6-T	02	C-12-T	02	GE-1-T	02	DSE1H	02	SEC-1H	02	GE-1-G	02	14

Prof. Avijit chakraborty(SACT)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-2-T	02	C-6-T	02	C-11-T	02	DSC-1c	02	DSE-G	02	X	X	X	X	10

Prof. Madhumita Addhya(SACT)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-2-T	02	C-5-T	02	DSC-1a	02	GE-3-T	02	GE-1-G	02	X	X	X	X	10

Prof. Sanat Pan (SACT)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-1-T	02	C-5-T	02	GE-3-T	02	DSC-1a	02	SEC-1-G	02	DSE-1G	02	X	X	12

Data Capturing Format (DCF) for Distribution of Papers & Classes

Name of the Department: Department of Bengali (UG)

Academic Session: 2021-22 **Semester: ODD**

Prof. Dipashree Roy (SACT)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-5-T	02	C-12-T	02	DSC-1a	02	AECC-C	02	GE-3-T	02	DSC-1c	02	DSE-2H	02	14

Prof. Goutam Jana (SACT)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C-2-T	02	C-6-T	02	C-11-T	02	GE-1-T	02	DSC-1c	02	DSE-1H	02	DSE-2H	02	14

Prof. …… N/A

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes

Prof. ……N/A

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes

Prof……N/A

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes

Prof. ……N/A

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes

Data Capturing Format (DCF) for Distribution of Papers & Classes

Name of the Department: Dept. of Botany
Academic Session: 2021-22 (July'21 – Dec'21) **Semester: ODD**

Dr. Uttam Kumar Kanp (Assistant Professor – Stage 2 & Head)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C1T	02	C1P	02	DSC-1AT	02	C6T	01	C6P	02	DSC-1CT	01	C12T	02	

Dr. Uttam Kumar Kanp (Assistant Professor – Stage 2 & Head)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
C12P	02	DSE 2T	02	DSE 2P	02	DSE1AT	02	DSE1AP	02	X	X	X	X	**22**

Prof. Nandita Bhakat (Assistant Professor - Stage 1)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C2T	02	C2P	02	C5T	02	C5P	02	C7T	01	C7P	02	GE3T	02	

Prof. Nandita Bhakat (Assistant Professor - Stage 1)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
GE3P	02	SEC-1T	01	DSE 1T	02	DSE1P	02	DSE1AT	01	SEC3T	01	X	X	**22**

Prof. Bangamoti Hansda (Assistant Professor - Stage 1)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
DSc1AT	02	DSC1AP	04	C6T	01	SEC1T	01	GE3T	02	GE3P	02	SEC1T	01	

Prof. Bangamoti Hansda (Assistant Professor - Stage 1)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
C12T	01	C12P	02	DSE1T	02	DSE1P	02	DSE2T	01	SEC3T	01	X	X	**22**

Name of the Department: Dept. of Botany

Data Capturing Format (DCF) for Distribution of Papers & Classes

Academic Session: 2021-22 (July'21 – Dec'21) **Semester: ODD**

Dr. Prithwi Ghosh (Assistant Professor - Stage 1)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C2T	02	C2P	02	GE1T	01	C6T	02	C6P	02	C7T	01	C11T	02	

Dr. Prithwi Ghosh (Assistant Professor - Stage 1)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
C11P	02	DSE2T	01	DSE2P	02	DSE1AT	01	DSE1AP	02	C5T	02	X	X	**22**

Prof. Sanjay Kumar Datta (State Aided College Teacher)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C1T	02	C1P	02	GE1T	02	GE1P	02	C5P	02	SEC1T	01	DSC1CT	01	

Prof. Sanjay Kumar Datta (State Aided College Teacher)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
DSC1CP	02	C12T	01	X	X	X	X	X	X	X	X	X	X	**15**

Prof. Arpita Chakraborty (State Aided College Teacher)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
GE1T	01	GE1P	02	C7T	02	C7P	02	DSC1CT	02	DSC1CP	02	C11T	02	

Prof. Arpita Chakraborty (State Aided College Teacher)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
C11P	02	X	X	X	X	X	X	X	X	X	X	X	X	**15**

Name of the Department: Dept. of Botany

Academic Session: 2021-22 (Jan'22-June'22) **Semester: EVEN**

Data Capturing Format (DCF) for Distribution of Papers & Classes

Dr. Uttam Kumar Kanp (Assistant Professor – Stage 2 & Head)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C4T	02	C4P	02	DSC2BT	02	C8T	01	C8P	02	DSC2DT	01	C13T	02	

Dr. Uttam Kumar Kanp (Assistant Professor – Stage 2 & Head)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
C13P	02	C14T	02	C14P	02					X	X	X	X	**18**

Prof. Nandita Bhakat (Assistant Professor - Stage 1)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C3T	02	C8T	03	C8P	02	C10T	02	C10P	02	GE4T	02	GE4P	02	

Prof. Nandita Bhakat (Assistant Professor - Stage 1)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
C13T	02	C13P	02									X	X	**19**

Prof. Bangamoti Hansda (Assistant Professor - Stage 1)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
DSC2BT	02	DSC2BP	04	C9T	01	SEC2T	01	GE4T	02	GE4P	02	C14T	02	

Prof. Bangamoti Hansda (Assistant Professor - Stage 1)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
C14P	02	DSE4T	02	DSE4P	02							X	X	**20**

Data Capturing Format (DCF) for Distribution of Papers & Classes

Name of the Department: Dept. of Botany
Academic Session: 2021-22 (Jan'22-June'22) **Semester: EVEN**

Dr. Prithwi Ghosh (Assistant Professor - Stage 1)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C3P	02	C4T	02	C4P	02	GE2T	01	C9T	02	C9P	02	SEC2T	01	

Dr. Prithwi Ghosh (Assistant Professor - Stage 1)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
DSE3T	02	DSE3P	02	DSE4T	02	DSE4P	02					X	X	**20**

Prof. Sanjay Kumar Datta (State Aided College Teacher)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C3T	02	C3P	02	GE2T	02	GE2P	02	C9T	01	C9P	02	DSC2DT	01	

Prof. Sanjay Kumar Datta (State Aided College Teacher)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
DSC2DP	02	X	X	X	X	X	X	X	X	X	X	X	X	**14**

Prof. Arpita Chakraborty (State Aided College Teacher)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
GE2T	01	GE2P	02	C10T	02	C10P	02	DSC2DT	02	DSC2DP	02	DSE3T	02	

Prof. Arpita Chakraborty (State Aided College Teacher)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
DSE3P	02	X	X	X	X	X	X	X	X	X	X	X	X	**15**

NARAJOLE RAJ COLLEGE

(NAAC Accredited 'B' Grade Govt. Aided College)
NARAJOLE : PASCHIM MEDINIPUR : PIN – 721 211
Ph.: 9475429270 e-mail : narajolerajcollege@rediffmail.com

Teaching Plan

Name of the Department : Bengali (PG).

Name of the Teacher : Dr. Nilanjana Bhattacharyya

Name of the Distinctive Number of the paper : BNGPG – 405D
(Title -) **গল্প হেকিম সাহেব (নাটক) : মনোজ মিত্র**

Session : 2021-22

Semester : IV(PG)

Sl. No. of Lecture	Broad Topic in University Syllabus	Topic to be covered in the Lecture
Lecture 01	গল্প হেকিম সাহেব (নাটক) : মনোজ মিত্র	ভূমিকা : বাংলা নাট্যসাহিত্য ও মনোজ মিত্র
Lecture 02		পাঠ বিশ্লেষণ – ১ অঙ্ক / দৃশ্য : ১/১, ১/২
Lecture 03		পাঠ বিশ্লেষণ – ২ অঙ্ক / দৃশ্য : ১/৩, ১/৪
Lecture 04		পাঠ বিশ্লেষণ – ৩ অঙ্ক / দৃশ্য : ১/৫, ২/১
Lecture 05		পাঠ বিশ্লেষণ – ৪ অঙ্ক / দৃশ্য : ২/২, ২/৩
Lecture 06		পাঠ বিশ্লেষণ – ৫ অঙ্ক / দৃশ্য : ২/৪, ২/৫
Lecture 07		রসতাত্ত্বিক আলোচনা – ১ রূপক নাটক রূপে ' গল্প হেকিম সাহেব' – এর আলোচনা
Lecture 08		রসতাত্ত্বিক আলোচনা – ২ সামাজিক নাটক রূপে ' গল্প হেকিম সাহেব' – এর আলোচনা
Lecture 09		' গল্প হেকিম সাহেব' – এর সংলাপ

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Teaching Plan

Sl. No. of Lecture	Broad Topic in University Syllabus	Topic to be covered in the Lecture
Lecture 10	গল্প হেকিম সাহেব (নাটক) : মনোজ মিত্র	গল্প হেকিম সাহেব' – এর হাস্যরস
Lecture 11		গল্প হেকিম সাহেব' – এর গঠনশৈলী
Lecture 12		গল্প হেকিম সাহেব' – এর প্রধান চরিত্রগুলির আলোচনা
Lecture 13		গল্প হেকিম সাহেব' – এর অপ্রধান চরিত্রগুলির আলোচনা
Lecture 14		সম্ভাব্য প্রশ্নাবলী
Lecture 15		সম্ভাব্য প্রশ্নাবলী
Lecture 16		সম্ভাব্য প্রশ্নাবলী

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Teaching Plan

Name of the Department : Bengali (PG).

Name of the Teacher : Dr. Nilanjana Bhattacharyya

Name of the Distinctive Number of the paper : BNGPG – 405D
(Title -) **গল্প হেকিম সাহেব (নাটক) : মনোজ মিত্র**

Session : 2021-22

Semester : V (UG).

Sl. No. of Lecture	Broad Topic in University Syllabus	Topic to be covered in the Lecture
Lecture 01	গল্প হেকিম সাহেব (নাটক) : মনোজ মিত্র	ভূমিকা : বাংলা নাট্যসাহিত্য ও মনোজ মিত্র
Lecture 02		পাঠ বিশ্লেষণ – ১ অঙ্ক / দৃশ্য : ১/১, ১/২
Lecture 03		পাঠ বিশ্লেষণ – ২ অঙ্ক / দৃশ্য : ১/৩, ১/৪
Lecture 04		পাঠ বিশ্লেষণ – ৩ অঙ্ক / দৃশ্য : ১/৫, ২/১
Lecture 05		পাঠ বিশ্লেষণ – ৪ অঙ্ক / দৃশ্য : ২/২, ২/৩
Lecture 06		পাঠ বিশ্লেষণ – ৫ অঙ্ক / দৃশ্য : ২/৪, ২/৫
Lecture 07		রসতাত্ত্বিক আলোচনা – ১ রূপক নাটক রূপে ' গল্প হেকিম সাহেব' – এর আলোচনা
Lecture 08		রসতাত্ত্বিক আলোচনা – ২ সামাজিক নাটক রূপে ' গল্প হেকিম সাহেব' – এর আলোচনা
Lecture 09		' গল্প হেকিম সাহেব' – এর সংলাপ

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Teaching Plan

Sl. No. of Lecture	Broad Topic in University Syllabus	Topic to be covered in the Lecture
Lecture 10	গল্প হেকিম সাহেব (নাটক) : মনোজ মিত্র	গল্প হেকিম সাহেব' – এর হাস্যরস
Lecture 11		গল্প হেকিম সাহেব' – এর গঠনশৈলী
Lecture 12		গল্প হেকিম সাহেব' – এর প্রধান চরিত্রগুলির আলোচনা
Lecture 13		গল্প হেকিম সাহেব' – এর অপ্রধান চরিত্রগুলির আলোচনা
Lecture 14		সম্ভাব্য প্রশ্নাবলী
Lecture 15		সম্ভাব্য প্রশ্নাবলী
Lecture 16		সম্ভাব্য প্রশ্নাবলী

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Name of the Department: BOTANY

Name of the Teacher: DR. UTTAM KUMAR KANP

Name and Distinctive Number of the Paper: PHYCOLOGY AND MICROBIOLOGY (CC1 T & P)

Session: 2021-2022 (JULY'2021 –DEC'2021)

Semester: I (HONOURS)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Theory** **Unit 3: Bacteria**	Discovery and general characteristic of bacteria.
Lecture 02		Eubacteria and wall less forms
Lecture 03		Cell structure, Nutrition types of bacteria.
Lecture 04		Reproduction- vegetative and asexual
Lecture 05		Reproduction-Recombination.
Lecture 06	**Unit 4: Algae**	General characteristics of algae.
Lecture 07		Ecology, distribution, range of thallus organization of algae.
Lecture 08		Cell structure and components
Lecture 09		Cell wall, Pigment system, reserve food of Algae.
Lecture 10		Types of flagella, methods of reproduction of algae.
Lecture 11		Classification: Criteria, system of Fritsch.
Lecture 12		Evolutionary classification of Lee and Van-den Hoeke t. al.
Lecture 13		Significant contributions of important phycologists.
Lecture 14		Role of algae in the environment, agriculture, biotechnology and industry.
Lecture 15	**Unit 5: Cyanophyta and Xanthophyta**	Cyanophyta: Ecology and occurrence, range of thallus organization, cell structure, reproduction, morphology.
Lecture 16		Xanthophyta: Ecology and occurrence range of thallus organization, cell structure, reproduction, morphology.

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Lecture 17		Life cycle of *Nostoc.*
Lecture 18		Life cycle of *Vaucheria.*
Lecture 19		Revision
Lecture 20		Revision
Lecture 21		Revision
Practical 1	**Practical** **Microbiology**	Electron micrographs/Models of viruses – T-Phage and TMV, Line drawings/ Photographs of Lytic and Lysogenic Cycle.
Practical 2		Types of Bacteria to be observed from temporary/permanent slides/photographs.
Practical 3		Electron micrographs of bacteria, binary fission, endospore, conjugation, root Nodule.
Practical 4		Gram staining.
Practical 5		Endospore staining with malachite green using the (endospores taken from soil bacteria).
Practical 6		Study of bacteria from root nodules/Curd sample.

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Name of the Department: BOTANY
Name of the Teacher: DR. UTTAM KUMAR KANP
Name and Distinctive Number of the Paper: ECONOMIC BOTANY (CC6 T & P)
Session: 2021-2022 (JULY'2021 – DEC'2021)
Semester: III (HONOURS)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Theory** **Unit 4: Source of sugars and starches**	Morphology cultivation, management and processing of sugarcane, products and by-products of sugarcane industry.
Lecture 02		Potato – morphology, propagation & uses.
Lecture 03	**Unit 5: Spices**	Listing of important spices, their family and part used. Economic importance with special reference to fennel, saffron, clove and black pepper
Lecture 4	**Unit 6: Beverages**	Tea: morphology, processing & uses.
Lecture 5		Coffee: morphology, processing & uses.
Lecture 6	**Unit 7: Sources of oils and fats**	General description, classification, extraction, their uses and health implications of groundnut, coconut, linseed (Botanical name, family & uses).
Lecture 7		General description, classification, extraction, their uses and health implications of soybean, mustard and coconut (Botanical name, family & uses).
Lecture8		Essential Oils: General account, extraction methods, comparison with fatty oils & their uses.
Lecture 9		Revision
Lecture 10		Revision
Lecture 12		Revision
Practical 1	**Practical** **Economic botany**	**Cereals**: Wheat (habit sketch, L. S/T.S. grain, starch grains, micro-chemical tests) Rice (habit sketch,

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		study of paddy and grain, starch grains, micro-chemical tests).
Practical 2		**Legumes**: Soybean, Groundnut, (habit, fruit, seed structure, micro-chemical tests).
Practical 3		**Sources of sugars and starches**: Sugarcane (habit sketch; cane juice- micro-chemical tests), Potato (habit sketch, tuber morphology, T.S. tuber to show localization of starch grains, w.m. starch grains, micro-chemical tests).
Practical 4		**Spices:** Black pepper, Fennel and Clove (habit and sections).
Practical 5		**Beverages**: Tea (plant specimen, tea leaves), Coffee (plant specimen, beans).
Practical 6		**Sources of oils and fats**: Coconut- T.S. nut, Mustard–plant specimen, seeds; tests for fats in crushed seeds

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Name of the Department: BOTANY
Name of the Teacher: DR. UTTAM KUMAR KANP
Name and Distinctive Number of the Paper: PLANT PHYSIOLOGY (CC12 T & P)
Session: 2021-2022 (JULY'2021 –DEC'2021)
Semester: V (HONOURS)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Theory** **Unit 5: Plant growth regulators**	Discovery, chemical nature (basic structure), bioassay and physiological roles of - Auxin,
Lecture 02		-Gibberellins,.,
Lecture 03		-Cytokinin
Lecture 04		-Abscisic acid,
Lecture 05		-Ethylene,
Lecture 06		-Brassinosteroids and Jasmonic acid
Lecture 07	**Unit 6: Physiology of flowering**	Photoperiodism, flowering stimulus, florigen concept,
Lecture 08		vernalization,
Lecture 09		seed dormancy.
Lecture 10	**Unit 7: Phytochrome, crytochromes and phototropins**	Discovery, chemical nature, role in photomorphogenesis.
Lecture 11		low energy responses (LER) and high irradiance responses (HIR), mode of action.
Lecture 12		Revision
Lecture 13		Revision
Lecture 14		Revision
Practical 1	**Practical**	Calculation of stomatal index and stomatal frequency from the two surfaces of leaves of a mesophyte.
Practical 2		Calculation of stomatal index and stomatal frequency from the two surfaces of leaves of a xerophyte.
Practical 3		To calculate the area of an open stoma and percentage of leaf area open through stomata in a mesophyte (both surfaces).
Practical 4		To calculate the area of an open stoma and percentage of leaf area open through stomata in a

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		xerophyte (both surfaces).
Practical 5		To study the phenomenon of seed germination (effect of light).
Practical 6		To study the effect of different concentrations of IAA on *Avena* coleoptile elongation (IAA Bioassay).
Practical 7		To study the induction of amylase activity in germinating barley grains.
Practical 8		To demonstrate suction due to transpiration.
Practical 9		Fruit ripening/Rooting from cuttings (Demonstration).
Practical 10		Bolting experiment/*Avena* coleoptiles bioassay (demonstration).

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Name of the Department: BOTANY
Name of the Teacher: DR. UTTAM KUMAR KANP
Name and Distinctive Number of the Paper: PLANT BREEDING (DSE 2T & P)
Session: 2021-2022 (JULY'2021 –DEC'2021)
Semester: V (HONOURS)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Theory** **Unit 1: Plant breeding**	Introduction and objectives of breeding systems.
Lecture 02		Modes of reproduction in crop plants.
Lecture 03		Important achievements and undesirable consequences of plant breeding.
Lecture 04	**Unit 2: Methods of Crop improvement**	Introduction: Centres of origin and domestication of crop plants
Lecture 05		plant genetic resources; Acclimatization.
Lecture 067		Selection methods: For self pollinated propagated plants.
Lecture 07		cross pollinated and vegetative propagated plants.
Lecture 08		Hybridization: For self, propagated plants – Procedure, advantages and limitations.
Lecture 9		Hybridization: For cross propagated plants – Procedure, advantages and limitations.
Lecture 10		Hybridization: For vegetative propagated plants – Procedure, advantages and limitations.
Lecture 11		Revision
Lecture 12		Revision
Lecture 13		Revision
Practical 1	**Practical** **Plant Breeding**	Identification of offspring's having parental genotypes and recombinant genotypes, based on combination of morphological attributes in a dihybrid cross.
Practical 2		Processes of emaculation – By applying higher temperature.

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Practical 3		Processes of emaculation –By amputing anthers

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Name of the Department: BOTANY
Name of the Teacher: DR. UTTAM KUMAR KANP
Name and Distinctive Number of the Paper: BIODIVERSITY (DSC 2AT)
Session: 2021-2022 (JULY'2021 –DEC'2021)
Semester: I (GENERAL)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Theory** **Unit 4: Introduction to Archegoniate**	Unifying features of archegoniates.
Lecture 02		Transition to land habit, Alternation of generations.
Lecture 03	**Unit 5: Bryophytes**	General characteristics, adaptations to land habit
Lecture 04		Range of thallus organization, Classification (up to family).
Lecture 05		Morphology, anatomy and reproduction of *Marchantia.*
Lecture 06		Morphology, anatomy and reproduction of *Funaria*.
Lecture 07		Ecology and economic importance of bryophytes with special mention of *Sphagnum*.
Lecture 08	**Unit 6: Pteridophytes**	General characteristics, classification, Classification (up to family),
Lecture 09		Early land plants (*Cooksonia* and *Rhynia*).
Lecture 10		Morphology, anatomy and reproduction of *Selaginella*, (Developmental details not to be included).
Lecture 11		Morphology, anatomy and reproduction of *Equisetum*. (Developmental details not to be included).
Lecture 12		Morphology, anatomy and reproduction of *Pteris*. (Developmental details not to be included).
Lecture 13		Heterospory and seed habit, stelar evolution.

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Lecture 14		Ecological and economical importance of Pteridophytes.
Lecture 14	**Unit 7: Gymnosperms**	General characteristics, classification. Classification (up to family),
Lecture 15		Morphology, anatomy and reproduction of *Cycas* (Developmental details not to be included).
Lecture 16		Morphology, anatomy and reproduction of *Pinus*. (Developmental details not to be included). Ecological and economical importance.
Lecture 17		Ecological and economical importance.

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Name of the Department: BOTANY

Name of the Teacher: DR. UTTAM KUMAR KANP

Name and Distinctive Number of the Paper: PLANT ANATOMYAND EMBRYOLOGY (DSC 2CT)

Session: 2021-2022 (JULY'2021 –DEC'2021)

Semester: III (GENERAL)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Theory** **Unit 4: Adaptive and protective systems**	Epidermis, cuticle, stomata; General account of adaptations in xerophytes.
Lecture 02		Epidermis, cuticle, stomata; General account of adaptations in hydrophytes.
Lecture 03	**Unit 5: Structural organization of flower**	Structure of anther and pollen.
Lecture 04		Structure and types of ovules.
Lecture 05		Types of embryo sacs.
Lecture 06		Organization and ultrastructure of mature embryo sac.

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Name of the Department: BOTANY
Name of the Teacher: DR. UTTAM KUMAR KANP
Name and Distinctive Number of the Paper: ECONOMIC BOTANY AND BIOTECHNOLOGY (DSE 2AT & P)
Session: 2021-2022 (JULY'2021 –DEC'2021)
Semester: V (GENERAL)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Theory** **Unit 5: Beverages**	Tea (morphology, processing, uses)
Lecture 02	**Unit 6: Oils and Fats**	General description with special reference to groundnut.
Lecture 03	**Unit 7: Fibre Yielding Plants**	General description with special reference to Cotton (Botanical name, family, part used, morphology and uses).
Lecture 04		Revision
Lecture 05		Revision
Lecture 06		Revision
Practical 1	**Practical**	Study of economically important plants : Wheat, Gram, through specimens, sections and microchemical tests.
Practical 2		Study of economically important plants : Soybean, Black pepper, Clove through specimens, sections and microchemical tests.
Practical 3		Study of economically important plants : Tea, through specimens, sections and microchemical tests.
Practical 4		Study of economically important plants : Cotton, Groundnut through specimens, sections and microchemical tests.

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Name of the Department: BOTANY
Name of the Teacher: DR. UTTAM KUMAR KANP
Name and Distinctive Number of the Paper: ARCHEGONIATE (CC 4 T)
Session: 2021-2022 (JAN'2022 –JUNE'2022)
Semester: II (HONOURS)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Unit 3: Type studies- Bryophytes**	Classification (up to family),
Lecture 02		Morphology, anatomy and reproduction of –*Riccia*
Lecture 03		-*Marchantia*
Lecture 04		-*Pellia*
Lecture 05		-*Porella*
Lecture 06		-*Anthoceros*
Lecture 07		-*Sphagnum*
Lecture 08		- *Funaria and* Pogonatum
Lecture 09		Reproduction and evolutionary trends in *Riccia*, *Marchantia*, *PlagichasmaAnthoceros*and *Funaria*(developmental stages not included).
Lecture 10		Ecological and economic importance of bryophytes with special reference to *Sphagnum*.
Lecture 11		Revision
Lecture 12		Revision
Lecture 13		Revision

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Name of the Department: BOTANY

Name of the Teacher: DR. UTTAM KUMAR KANP

Name and Distinctive Number of the Paper: MOLECULAR BIOLOGY (CC8 T)

Session: 2021-2022 (JAN'2022 –JUNE'2022)

Semester: IV (HONOURS)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Unit- 1: Nucleic acids: Carriers of genetic information**	Historical perspective;
Lecture 02		DNA as the carrier of genetic information - Griffith's experiment.
Lecture 03		-Hershey & Chase experiment.
Lecture 04		-Avery, McLeod & McCarty experiment.
Lecture 05		-Fraenkel-Conrat's experiment.
Lecture 06	**Unit -2. The Structures of DNA and RNA / Genetic Material**	DNA Structure: Miescher to Watson and Crick- historic perspective.
Lecture 07		DNA structure, Salient features of double helix.
Lecture 08		Types of DNA.
Lecture 09		Types of genetic material, denaturation and renaturation.
Lecture 10		Cot curves; Organization of DNA-Prokaryotes, Viruses, Eukaryotes.
Lecture 11		RNA Structure.
Lecture 12		Organelle DNA - mitochondria and chloroplast DNA.
Lecture 13		The Nucleosome.
Lecture 14		Chromatin structure-Euchromatin.
Lecture 15		Heterochromatin- Constitutive and Facultative heterochromatin.
Lecture 16	**Unit- 3: The replication of DNA**	Chemistry of DNA synthesis (Kornberg's discovery);
Lecture 17		General principles – bidirectional, semiconservative and semi discontinuous replication,
Lecture 18		RNA priming;
Lecture 19		Various models of DNA replication, including rolling

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		circle,
Lecture 20		θ (theta) mode of replication,
Lecture 21		replication of linear ds-DNA,
Lecture 22		replication of the 5'end of linear chromosome;
Lecture 23		Enzymes involved in DNA replication.
Lecture 24		Revision
Lecture 25		Revision

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Name of the Department: BOTANY
Name of the Teacher: DR. UTTAM KUMAR KANP
Name and Distinctive Number of the Paper: PLANT METABOLISM (CC13 T)
Session: 2021-2022 (JAN'2022 –JUNE'2022)
Semester: VI (HONOURS)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Unit 1: Concept of metabolism**	Introduction, anabolic and catabolic pathways.
Lecture 02		Regulation of metabolism.
Lecture 03		Role of regulatory enzymes (allosteric,covalent modulation and Isozymes).
Lecture 04	**Unit 2: Carbon assimilation**	Historical background, photosynthetic pigments.
Lecture 05		Role of photosynthetic pigments (chlorophylls and accessory pigments).
Lecture 06		Antenna molecules and reaction centres,
Lecture 07		Photochemical reactions, photosynthetic electron transport, PSI, PSII, Q cycle,
Lecture 08		CO2 reduction,
Lecture 09		photorespiration,
Lecture 10		C4 pathways;
Lecture 11		Crassulacean acid metabolism;
Lecture 12		Factors affecting CO2 reduction.
Lecture 13	**Unit 3: Carbohydrate metabolism**	Synthesis and catabolism of sucrose and starch.
Lecture 14	**Unit 4: Carbon Oxidation**	Glycolysis.
Lecture 15		Fate of pyruvate, regulation of glycolysis.
Lecture 16		Oxidative pentose phosphate pathway.
Lecture 17		Oxidative decarboxylation of pyruvate.
Lecture 18		Regulation of PDH, NADH shuttle.
Lecture 19		TCA cycle.
Lecture 20		Amphibolic role, anaplerotic

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		reactions, regulation of the cycle.
Lecture 21		Mitochondrial electron transport.
Lecture 22		Oxidative phosphorylation.
Lecture 23		Cyanide-resistant respiration.
Lecture 24		Factors affecting respiration.
Lecture 25		Revision
Lecture 26		Revision

NARAJOLE RAJ COLLEGE

(NAAC Accredited 'B' Grade Govt.-Aided College)

NARAJOLE: PASCHIM MEDINIPUR: PIN-721211

Ph.: 9475429270 e-mail: narajolerajcollege@rediffmail.com

Name of the Department: BOTANY

Name of the Teacher: DR. UTTAM KUMAR KANP

Name and Distinctive Number of the Paper: PLANT BIOTECHNOLOGY(CC14T)

Session: 2021-2022 (JAN'2022 –JUNE'2022)

Semester: VI (HONOURS)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Unit -1: Plant Tissue Culture**	Historical perspective.
Lecture 02		Composition of media.
Lecture 03		Nutrient and hormone requirements (role of vitamins and hormones).
Lecture 04		Totipotency; Organogenesis.
Lecture 05		Embryogenesis (somatic and zygotic).
Lecture 06		Protoplast isolation, culture and fusion.
Lecture 07		Tissue culture applications (micropropagation, androgenesis, virus elimination.
Lecture 08		Secondary metabolite production.
Lecture 09		Haploids, triploids and hybrids.
Lecture 10		Cryopreservation; Germplasm Conservation).
Lecture 11	**Unit- 2: Recombinant DNA technology**	Restriction Endonucleases - History, Types I-IV.
Lecture 12		Restriction Endonucleases biological role and application.
Lecture 13		Restriction Mapping (Linear and Circular).
Lecture 14		Cloning Vectors - Prokaryotic pUC 18 and pUC19.
Lecture 15		- pBR322, Ti plasmid, BAC.
Lecture 16		Lambda phage.
Lecture 17		M13 phagemid.
Lecture 18		Cosmid, Shuttle vector.
Lecture 19		Eukaryotic Vectors (YAC).
Lecture 20	**Unit- 3:Gene Cloning**	Recombinant DNA.
Lecture 21		Bacterial Transformation and selection of recombinant clones.
Lecture 22		PCR mediated gene cloning.

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Lecture 23		Gene Construct; construction of genomic and cDNA libraries.
Lecture 24		Screening DNA libraries to obtain gene of interest by genetic selection; complementation, colony hybridization.
Lecture 25		PCR.
Lecture 26		Revision
Lecture 27		Revision

NARAJOLE RAJ COLLEGE

(NAAC Accredited B Grade Govt. – Aided College)

NARAJOLE: PASCHIM MEDINIPUR: PIN-721211

Department of Bengali

Notice

Dated:08.01.2022

Notice is hereby given that a meeting of Dept. of Bengaliwill be held on 10.01.2022 (Monday) at7.00PMthrough video conferencing to discuss the following agenda. Please make it convenient to attend the meeting.

Agenda

1. To discuss regarding academic progress of the department in the odd semesters of the session 2021-
2. To follow up the departmental administrative activities.
3. To prepare the names of paper setters and examiners for internal assessments of semester V examinations in the session 2021-22 and to discuss on other examination related issues
4. Academic Audit Report and AQAR related issues.
5. To discuss regarding progress of publication of departmental Journal'Prayas'-2021-2022.
6. Miscellaneous (if any) with the permission of the chair.

Dr. Anupam Parua
Signature of the Principal

Principal
Narajole Raj College
Narajole, Pin-721 211

Dr. Nilanjana Bhattacharyya
Signature of the Convenor

Copy forwarded for information and necessary action to:

(1) Dr. Sadhan Ch. Pandit
(2) Dr. Dipak Shom
(3) Prof. Aviijit Chakraborty
(4) Prof. MadhumitaAddya
(5) Prof. Sanat Pan
(6) Prof. Dipashri Roy
(7) Prof. Goutam Jana

NB; MEETING LINK WILL BE SHARED IN DUE COURSE THROUGH CONCERNED WHATSAPP GROUP.

নং / No.	রেজল্যুশন / Resolution Adopted
	Meeting date: 10/01/22
1.	[illegible] Sarma
2.	Nilanjana Bhattacharyya
3.	Srijit Chakraborty
4.	Dipak Ghosh
5.	Sadhan Chandra Sandil
6.	Sanat Pan
7.	Dipashri Rat
8.	Goutam Jana.

NARAJOLE RAJ COLLEGE

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Pashchim Medinipur
Estd.-1966

NARAJOLE RAJ COLLEGE
Estd.-1966

Proceedings of the meeting of the Department of Bengali held on 10/01/2022 (Monday) at 8.30pm in Google meet with meeting id: with meeting id: pxa -zcuv -owc

Meeting 02 of the Academic Session 2021-22

Meeting of the Department of Bengali commenced with the Principal in the chair, detailed discussions on the items of agenda took place and the following resolutions were adopted:

1. To discuss regarding academic progress of the department in the odd semesters of the session 2021- 22.

Members discussed at length in the odd semesters of the session 2020 -21. Dr. Nilanjana Bhattacharyya mentioned that classes are going on as per planning. Percentage of completion of syllabus is also satisfactory. accordingly.

Proceedings of the meeting of the Department of Bengali held on 10/01/2022 (Monday) at 8.30pm in Google meet with meeting id: with meeting id: pxa -zcuv -owc

Meeting 02 of the Academic Session 2021-22

2. To follow up the departmental administrative activities.

HoD, Dr. Nilanjana Bhattacharyya mentioned that all the pending documentation work is going according to plan and department will be complete the documentation process within due time. The following area of work is going now for preservation:

i. Copies of all End Semester examinations of UG courses has been preserved in departmental drive.

ii. All the question papers of internal examinations are preserved in departmental folders.

iii. All the VCC routine are also preserved in departmental folders.

iv. Copies of front pages of evaluated answer scripts are also preserved by the department.

v. Excel sheets with marks of all completed examinations are stored in the department as well as to the examiners.

3. To prepare the names of paper setters and examiners for internal assessments of semester V examinations in the session 2021-22 and to discuss on other examination related issues.

Members discussed at length regarding preparation of list of paper setters and examiners and the list is annexed below:

Paper	Name of the paper setter	Name of the Examiner
C11T	Prof. Avijit Chakraborty	Prof. Avijit Chakraborty
C12T	Dr. S. C. Pandit	Dr. S. C. Pandit
DSE1TH	Dr. Dipak Shom	Dr. Dipak Shom
DSE2TH	Dr. Nilanjana Bhattacharyya	Dr. Nilanjana Bhattacharyya
GE1TG	Prof. D. Roy	Prof. D. Roy
DSE1TG	Prof. S.Pan	Prof. S.Pan
SEC3TG	Prof. Avijit Chakraborty	Prof. Avijit Chakraborty

Proceedings of the meeting of the Department of Bengali held on 10/01/2022 (Monday) at 8.30pm in Google meet with meeting id: with meeting id: pxa -zcuv -owc

Meeting 02 of the Academic Session 2021-22

Here, Dr. Dipak Shom, convenor, Academic Committee, discussed on other examination related issues which are resolved at Academic Committee meeting which are as follows:

i. Prepared question papers wil be sent to departmental domain email Id in due time.
ii. Examinations will be of 20 marks for 75 marks papers and 10 marks for 50 marks papers.
iii. For twenty marks papers eight questions will be given to the students and students will attempt any four of them and for ten marks papers four options will be given and students will attempt any two of them. Each will be of five marks.

4. Academic Audit Report and AQAR related issues.

HoD Dr. Nilanjana Bhattacharyya informed the members that all the documents required for AQAR are sent to IQAC for the purpose of submission of the same.

5. To discuss regarding progress of publication of departmental Journal 'Prayas'-2021-2022.

Prof. Avijit Chakraborty informed the members that progress of publication of Prayas - 2022 is going on. This year due to continuation of lockdown the e edition of the journal is planned. Write ups are collected from the departmental faculties and students and from invited writers as well. The tentative date of publication of the journal is 21st February, 2022. Here, he added that the yearly programme of observation of international mother language day will also be arranged by the department in befitting manner.

Proceedings of the meeting of the Department of Bengali held on 10/01/2022 (Monday) at 8.30pm in Google meet with meeting id: with meeting id: pxa -zcuv -owc

Meeting 02 of the Academic Session 2021-22

As no other business left, meeting ended with reciprocal vote of thanks to and from the chair.

(Dr. Anupam Parua)
Chairman

Principal
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Narajole,Pin-721 211

NARAJOLE RAJ COLLEGE

(NAAC Accredited B Grade)

NARAJOLE, PASCHIM MEDINIPUR, PIN-721211

Academic Committee Notice

19-07-2022

All the members of the Academic committee are hereby requested to attend a meeting on 26/07/22 at 3.00 PM to discuss the following agenda.

Agenda:

1) Read and confirm the previous resolution.

2) To discuss about the value added course, Add-on Course in the session 2022-2023.

3) To discuss about the Project work of ENVS in the session of 2022-2023.

4) To discuss about the commensment of class

5) Misc (With the permission of the chair)

Dipak Shom

Dr. Dipak Shom
Convener/ Academic Committee

Convenor
Academic Committee
Narajole Raj College
Narajole, PIN-721211

Members :-

1. Dr. N. Bhattacharyya Nilanjana Bhattacharyya
2. Dr. R. Debnath R. Debnath
3. Prof. P. P. Mondal Pragnaparamita Mondal
4. Prof. N. Bhakat
5. Dr. Arif Iqbal Mallick
6. Prof. Anustup Chattopadhyay
7. Dr. Md. Aziz
8. Dr. Mangal Kr, Nayak
9. Prof. Subhasis Das
10. Dr. Poulami Adhikari Mukherjee
11. Dr. Tanuka Acharya Tanuka Acharya
12. Dr. Akul Rana
13. Dr. Parimal Dua
14. Prof. Mosibul Ali Sk Mosibul Ali
15. Dr. Atanu Nanda A. Nanda
16. Prof. Barun Rout

30/04/24

Principal
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Narajole,Pin-721 211

মিটিং রেজল্যুশন বহি

MEETING RESOLUTION BOOK

মিটিং নং/Meeting No.	
তারিখ/Date	26-07-2022

স্থান/Place	Vice-principal Chamber
সময়/Time	2.30 P.M

উপস্থিত সভ্যগণের নাম
NAME OF MEMBERS PRESENT

১। 1. Ranajit Kr. Khalua
২। 2. Dipak
৩। 3. Parimal
৪। 4. Rajasree Debnath
৫। 5. Tanmoy Acharya
৬। 6. Atul Rout
৭। 7. Nandita Bhakat
৮। 8. Arif Iqbal Mallick
৯। 9. Sk Monibul Ali
১০। 10. Subhasis Das
১১। 11. Nilanjan Bhattacharya
১২। 12. Poulami Adhikary Mukherjee
১৩। 13. A. Chattopadhyay
১৪। 14. S. [illegible]
১৫। 15. Uday Kumar Nayak
১৬। 16. Soumendu Bisoi
১৭। 17.
১৮। 18.
১৯। 19.
২০। 20.
২১। 21.

নং/No. রেজল্যুশন/Resolution Adopted

Proceedings of the meeting of the Academic Committee held on 26-07-2022 at 2.30 pm

Venue: Vice- Principal's Chamber

The meeting was chaired by Dr. Ranajit Kumar Khalua, the Vice-Principal of the College and Chairman of the Academic Committee.

Detailed discussions took place on the agenda ongoing academic activities of the college and the following resolutions were adopted:

1. The resolutions of the previous meeting dated 29/04/2022 were read and confirmed without any change.

2. The convenor informed the house that IQAC Co-ordinator proposed to conduct some ADD On/ Value Added/ Certificate courses in our college. After detailed discussion, the following courses approved unanimously.

List of Add on / Value Added / Certificate / Innovative Hub Course
(Session : 2022 – 2023) [01.07.2022 – 30.06.2023]
Narajole Raj College, Narajole, Paschim Medinipur

ADD ON COURSES

Sl. No.	Title	Course Code	Department	Course Co-ordinators	Course duration	Intake capacity
1	Add on Course on Medicinal Plants: Conservation, Propagation and Uses.	AOCMPCPU	Botany	Nandita Bhakat	12.11.2022-30.06.2023	35
2	Add on Course on Application of Chemdraw Software for Scientific Drawing.	AOCACSSD	Chemistry	Dr. Soumendu Bisoi	22.12.2022 – 13.06.2023	20

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3	Add on Course on Ancient Indian History and Culture.	AOCAIHC	History, Philosophy and Sanskrit	Dr. Bhakti Pada Jana, Dr. Rabindranath Maity and Singray Tudu	02.03.2023 -23.03.2023	115
4	Add on Course on Functional Bengali and Grammar.	AOCFBG	Bengali	Dr. Dipak Shom	23.03.2023 – 27.06.2023	30
5	Add on Course on Indian Constitution & Polity.	AOCICP	Political Science	Prasenjit Senapoti and Supen Sarkar	03.05.2023- 30.06.2023	25
6	Add on Course on Archival Research .	AOCAR	History	Dr. Mangal Kumar Nayak and Baisali Guha	22.05.2023 -30.06.2023	30
7	Add on Course on Water Resource Management.	AOCWRM	Geography	Ishita Biswas	26.05.2023 -27.06.2023	15
8	Add on Course on English Writing Skills.	AOCEWS	English	Pragna Paramita Mondal	01.06.2023 -30.06.2023	50
9	Add on Course on Household Chemistry (Grihasthali rasayanik toirir jonnyo laboratoryte hate kolome prasikkhan).	AOCHC	Chemistry	Dr. Sk Mohammad Aziz and Dr. Soumendu Bisoi	13.06.2023 – 30.06.2023	15
10	Add on Course on "FORTRAN Programming and ORIGINLAB for Scientific Data Analysis".	AOCFPOSDA	Physics	Dr. Arif Iqbal Mallick and Dr. Avradip Pradhan	13.06.2023- 30.06.2023	10

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	on Yoga & Meditation.			Mandal	01.02.2023	
2	Value Added Course on Human Rights Education.	VACHRE	Political Science	Dr. Rajasree Debnath	25.08.2022 - 30.11.2022	25
3	Value Added Course on Creative Writing in Bengali.	VACCWB	Bengali	Dr. Nilanjana Bhattacharyya	09.09.2022 – 03.01.2023	30
4	Value Added Course on Add on Course on ARC GIS Basics.	AOCAGB	Geography	Subhasis Das	24.12.2022 – 22.06.2023	15

5	Value Added Course on the Study of Biodiversity and its impact on human health.	VACSBIHH	Botany, Zoology, Physiology	Prof. Nandita Bhakat	20.02.2023 – 29.06.2023	30
6	Value Added Course on Basic Computer Training for SC and ST Students.	VACBCTSSS	Technology Sub-Committee	Dr. Avradip Pradhan	28.02.2023 – 07.04.2023	20
7	Value Added Course on Basic Mathematics .	VACBM	Mathematics	Shilpa Patra	15.05.2023 – 30.06.2023	30
8	Value Added Course on Spoken Sanskrit.	VACSS	Sanskrit	Dr. Uttam Kumar Singha and Tumpa Jana	17.05.2023 – 31.05.2023	115
9	Value Added Course on Ethics & Value Education .	VACEVE	Philosophy & Education	Dr. Tanuka Acharya	17.05.2023 – 30.06.2023	45
10	Value Added Course on Basic Computer Skills for female students.	VACBCSFS	Technology Sub-Committee	Dr. Shreyasi Jana	20.05.2023-30.06.2023	15
11	Value Added Course on Women's Health and Nutrition.	VACWHN	Physiology & Zoology	Dr. Parimal Dua and Dr. Poulami Adhikary Mukherjee	23.05.2023-28.06.2023	30
12	Value Added Course on General English for Competitive Exams.	VACGECE	English	Pragna Paramita Mondal	01.06.2023 – 30.06.2023	50
13	Value Added Course on LED Based Device Production.	VACLBDP	Physics Department	Dr. Tapanendu Kamilya	02.06.2023 – 27.06.2023	15
14	Value Added Course on Vedic Culture and Karmakanda.	CCVCK	Sanskrit	Asis Bhattacharya and Barnali Banerjee	12.06.2023 – 30.06.2023	100
			Total			**570**
1	Certificate Course on English as a Second Language.	CCESL	Language Lab	Pragna Paramita Mondal	01.06.2023 – 30.06.2023	50
			Total			**50**

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Total						50
1	Innovative Hub on Techniques for Mushroom Cultivation.	AOCTMC	Botany	Sanjay Kumar Dutta	03.12.2022 – 16.06.2022	30
Total						30
Grand Total (No. of Total Course 10+14+1+1 = 26)						995

It is further resolved that the Course Co-coordinator take approval of Department Committee to form the BOS as per UGC guidelines of VAC/ Add on/ certificate course and each course will be of 30 hours duration. The syllabus of these courses will be designed by the concerned department and it is to be approved by the BOS. An MCQ examination will be held at the end of each course and certificate will be provided to the successful candidates.

3. It is resolved that the project work of the paper AECC-2(ENVS-Environmental Science) is supervised by the following teachers:

i) Prof. Bangamoti Hansda
ii) Dr. Prithwi Ghosh
iii) Prof Ishita Biswas
iv) Dr. Parimal Dua
v) Prof. Nandita Bhakat
vi) Prof. Subhasis Das

The Project work of other departments will be supervised by the concerned departmental teacher and it is to be resolved in the departmental meeting.

4. After brief discussion, it was unanimously resolved that the class of the 5th Semester will begin on and from 16/08/2022 in offline mode.

As there was no further agenda for discussion, the meeting ended with a reciprocal vote of thanks to and from the Chair.

Dipak Ghosh
Convenor

Convenor
Academic Committee
Narajole Raj College
Narajole, PIN- 721211

Vice Principal
Vice-Principal
Narajole Raj College
P.O.- Narajole
Dist.- Paschim Medinipur, 7

Principal
Narajole Raj College
Narajole,Pin-721 211

NARAJOLE RAJ COLLEGE

(NAAC Accredited II Grade Govt. – Aided College)

NARAJOLE, PASCHIM MEDINIPUR, PIN-721211

Department of Bengali

Notice

Dated: 11.07.2022

Notice is hereby given that a meeting of Dept. of Bengali will be held on 19.07.2022 (Tuesday) at 2.00 PM in the office chamber of the Vice Principal to discuss the following agenda. Please make it convenient to attend the meeting.

Agenda:

1. To read and confirm the proceedings of the meeting dated 28.05.2022.
2. Hand over the Charge of Head of the Department in the session 2022-23.
3. To discuss regarding Academic preparedness of the department for the coming session 2022-23.
4. Miscellaneous (if any) with the permission of the Chair.

Dr. Ranajit Kumar Khatua
Vice - Principal

Dr. Nilanjana Bhattacharyya
Convenor

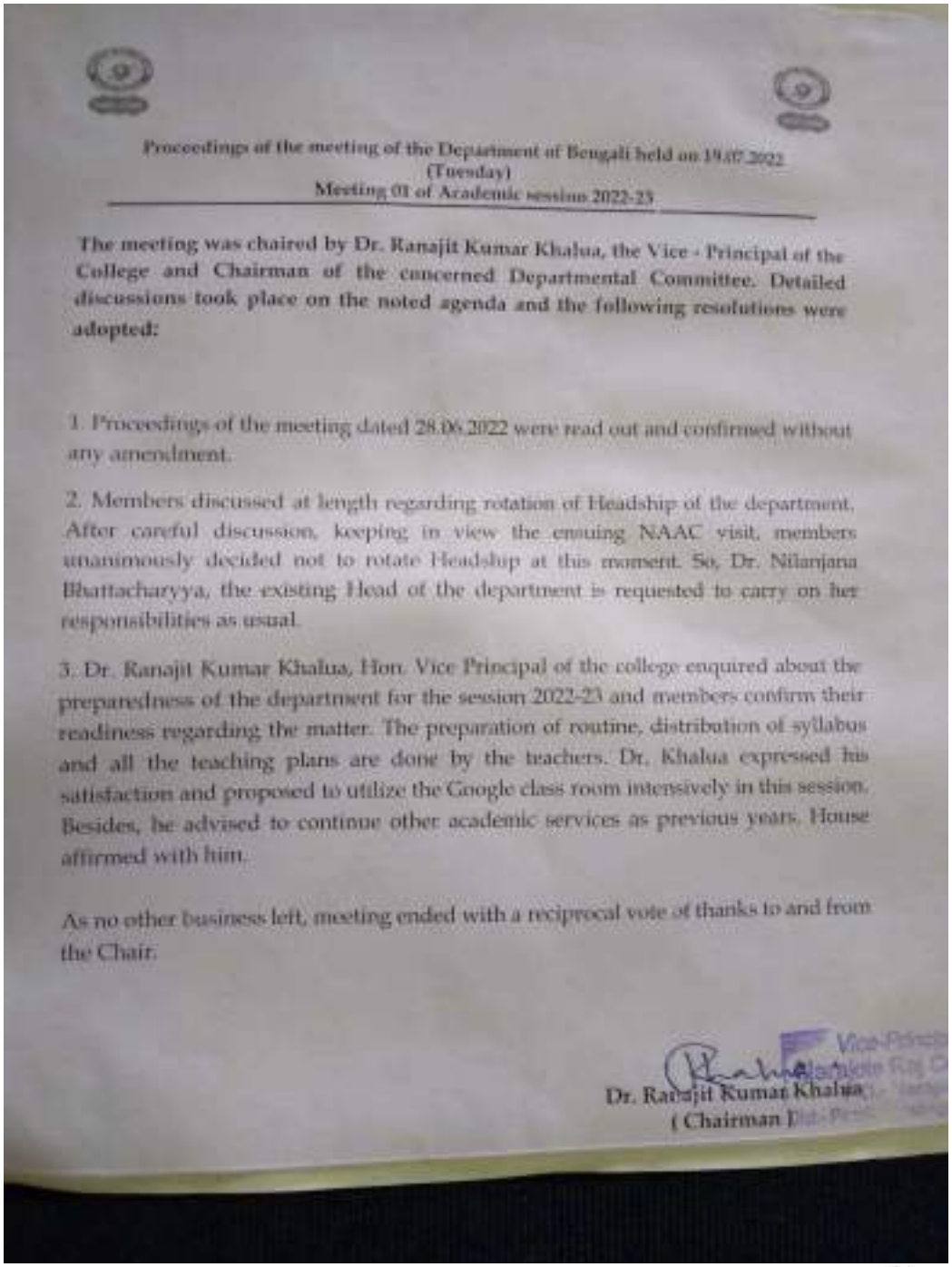
Vice-Principal
Narajole Raj College
P.O. Narajole
Dist.-Paschim Medinipur, Pin-721211

Members:

(1) Dr. Sadhan Ch. Pandit
(2) Dr. Dipak Sheet
(3) Prof. Avijit Chakraborty
(4) Prof. Madhumita Addya
(5) Prof. Sanat Pan
(6) Prof. Dipashri Roy
(7) Prof. Goutam Jana

Attested
30/04/24

Principal
Narajole Raj College
Narajole, Pin-721 211



Proceedings of the meeting of the Department of Bengali held on 19.07.2022
(Tuesday)
Meeting 01 of Academic session 2022-23

The meeting was chaired by Dr. Ranajit Kumar Khalua, the Vice - Principal of the College and Chairman of the concerned Departmental Committee. Detailed discussions took place on the noted agenda and the following resolutions were adopted:

1. Proceedings of the meeting dated 28.06.2022 were read out and confirmed without any amendment.

2. Members discussed at length regarding rotation of Headship of the department. After careful discussion, keeping in view the ensuing NAAC visit, members unanimously decided not to rotate Headship at this moment. So, Dr. Nilanjana Bhattacharyya, the existing Head of the department is requested to carry on her responsibilities as usual.

3. Dr. Ranajit Kumar Khalua, Hon. Vice Principal of the college enquired about the preparedness of the department for the session 2022-23 and members confirm their readiness regarding the matter. The preparation of routine, distribution of syllabus and all the teaching plans are done by the teachers. Dr. Khalua expressed his satisfaction and proposed to utilize the Google class room intensively in this session. Besides, he advised to continue other academic services as previous years. House affirmed with him.

As no other business left, meeting ended with a reciprocal vote of thanks to and from the Chair.

Dr. Ranajit Kumar Khalua
(Chairman)

Attested
25/04/24
Principal
Narajole Raj College
Narajole, Pin-721 211

বিদ্যালয়

মিটিং রেজল্যুশন বই
MEETING RESOLUTION BOOK

SCHOOL

মিটিং-এর ক্রমিক সংখ্যা / Serial No. of Meeting : 15 মিটিং এর তারিখ / Date of Meeting : 09.12.2022

মিটিং এর স্থান / Venue of Meeting : online মিটিং এর সময় / Time of Meeting : 8.00 p.m.

উপস্থিত সভ্যগণের নাম / Name of Members Present

১/1. [signature]	৯/9	১৭/17
২/2. Bani Ranjan De	১০/10	১৮/18
৩/3. Srutinath Chakraborty	১১/11	১৯/19
৪/4. Nilanjana Bhattacharyya	১২/12	২০/20
৫/5. Dipak Ghom	১৩/13	২১/21
৬/6. Sadhan Chandra Pandit	১৪/14	২২/22
৭/7.	১৫/15	২৩/23
৮/8.	১৬/16	২৪/24

ক্রমিক সংখ্যা / Serial No. — রেজল্যুশন / RESOLUTIONS ADOPTED

গতকাল ০৯.১২.২০২২ তারিখ, শুক্রবার, রাত্রি ৮ টায় নাড়াজোল রাজ কলেজের বাংলা বিভাগের Board of Studies-এর অনলাইনে ইন্টারনেট মাধ্যমে video Conference-এ সভা অনুষ্ঠিত হয়। এই অনলাইন সভায়, বিভাগীয় প্রধান ড. প্রদীপ কুমার ... সভাপতির আসন গ্রহণ করার পর সভার কাজ শুরু হয়।

১। সভার পূর্ববর্তী Resolutions পাঠ হয়, এবং তা সর্বসম্মতিক্রমে অনুমোদিত হয়।

২। সভায় ২০২২-২০২৩ শিক্ষাবর্ষে নাড়াজোল রাজ কলেজের বিভাগের প্রথম সেমেস্টার (M.A. 1st Sem.-2022) ও তৃতীয় সেমেস্টার (M.A. 3rd Sem. 2022) -2022 এর Paper-Setters (Internal & External), Examiners, Moderators, Reviewers & Scrutineer-এর নাম নির্ধারিত হয় এবং তা সর্বসম্মতিক্রমে গৃহীত হয়।

* M.A. 1st Sem. Exam. -2022

Paper	Paper-Setter (Internal)	Paper-setter (External)	Examiners
BENG-101	Dr. Dipak Ghom	Dr. Nirmal Kr. Bera, Dept. of Bengali, Sabang S.K. Mahavidyalaya	Dr. Nirmal Kr. Bera, Dept. of Bengali, Sabang S.K. Mahavidyalaya
BENG-102	Dr. Sadhan Ch. Pandit	Dr. Bipul Kr. Mandal, Dept. of Bengali, Raja N.L. Khan Womens' College, Midnapore.	Dr. Dipak Ghom
BENG-103	Dr. Sadhan Ch. Pandit	Dr. Sujoy Kr. Maity, Dept. of Bengali, Raja N.L. Khan Womens' College, Midnapore	Dr. Sadhan Ch. Pandit
BENG-104	Dr. Nilanjana Bhattacharyya	Dr. Saradaprata Laha, Dept. of Bengali, Raja N.L. Khan Womens' College, Midnapore	Dr. Nilanjana Bhattacharyya

সিদ্ধান্তসমূহ | RESOLUTIONS ADOPTED

Paper	Internal Paper-setter	External Paper-setter	Examiner
BENG-105	Avijit Chakraborty	Dr. Hasanur Rahaman, Dept. of Bengali, Ghatal R.S. Mahavidyalaya, Paschim Medinipur	Avijit Chakraborty

* M.A. 3rd Sem. Exam. - 2022

Paper	Paper-setter (Internal)	Paper-setter (External)	Examiners
BENG-301	Dr. Sadhan Ch. Pandit	Dr. Amar Adikari, Dept. of Bengali, Kharagpur College	Dr. Sadhan Ch. Pandit
BENG-302	Dr. Nilanjana Bhattacharyya	Dr. Rita Sil, Dept. of Bengali, Garhbeta College, Paschim Medinipur	Dr. Nilanjana Bhattacharyya
BENG-303	Dr. Dipak Shom	Dr. Amar Kr. Saha, Dept. of Bengali, Midnapore College (Autonomous)	Dr. Dipak Shom
BENG-304 (CBCS)	Avijit Chakraborty	Dr. Santanu Dolai, Dept. of Bengali, Egra S.S.B. College, Purba-Medinipore	Avijit Chakraborty
BENG-305 (Project Paper)	—	—	① Dr. Bipul Kr. Mondal (External), Raja N.L. Khan Women's College, Midnapore ② Dr. Amar Adikari (External), Kharagpur College ③ Dr. Nilanjana Bhattacharyya (Internal) ④ Dr. Dipak Shom (Internal)

* M.A. 1st & 3rd Sem. Exam. - 2022 (Moderators):

Papers
BENG-101, 102, 103, 104, 105
&
BENG-301, 302, 303, 304 (CBCS),

① Prof. Bani Ranjan De (External), Dept. of Bengali, Vidyasagar University
② Prof. Srutinath Chakraborty (External), Former Professor, Dept. of Bengali, Vidyasagar University, Midnapore.
③ Dr. Nilanjana Bhattacharyya (Internal)
④ Dr. Dipak Shom (Internal)

Attested
30/04/24

Principal
Narajole Raj College
Narajole, Pin-721 211

বিদ্যালয়

SCHOOL

মিটিং রেজল্যুশন বই
MEETING RESOLUTION BOOK

মিটিং এর ক্রমিক সংখ্যা / Serial No. of Meeting :

মিটিং এর তারিখ / Date of Meeting :

মিটিং এর স্থান / Venue of Meeting :

মিটিং এর সময় / Time of Meeting :

উপস্থিত সভ্যগণের নাম / Name of Members Present

১/1	৯/9	১৭/17
২/2	১০/10	১৮/18
৩/3	১১/11	১৯/19
৪/4	১২/12	২০/20
৫/5	১৩/13	২১/21
৬/6	১৪/14	২২/22
৭/7	১৫/15	২৩/23
৮/8	১৬/16	২৪/24

ক্রমিক সংখ্যা Serial No. — রেজল্যুশন / RESOLUTIONS ADOPTED

* M.A. 1st & 3rd Sem.-2022 Examination — Reviewers :—

(1) Dr. Sujoy Kr. Maity → M.A. 1st Sem. Exam.-2022
Dept. of Bengali
Raja N.L. Khan Womens' College
Paschim Medinipur

(2) Dr. Biswaranjan Ghorai → M.A. 3rd Sem. Exam.— 2022
Dept. of Bengali
Panskura Banamali College
Purba Medinipur

* M.A. 1st & 3rd Sem.-2022 (Scrutineers) :—
All Internal Teachers :
(1) Dr. Nilanjana Bhattacharyya
(2) Dr. Sadhan Ch. Pandit
(3) Dr. Dipak Shom
(4) Avijit Chakraborty

Attested
[signature] 30/04/24
Principal
Narajole Raj College
Narajole, Pin-721 211

৩/ সভায় উপস্থিত সকলেই মনে করেন, বিদ্যাসাগর বিশ্ববিদ্যালয়ের Rules & Regulations অনুযায়ী যে Question Pattern নির্দিষ্ট হয়েছে সেই অনুযায়ী প্রশ্নকর্তাগণ প্রশ্নপত্র তৈরী করে [illegible] নির্দিষ্ট [illegible] [illegible] দিতে পারবেন। নির্দিষ্ট [illegible] প্রশ্নপত্র [illegible] PG Board of Moderators নির্দিষ্ট দিনে প্রশ্নপত্র Moderation করবেন।

রেজোল্যুশন | RESOLUTIONS ADOPTED

সর্বসম্মতিক্রমে আজ গৃহীত হল যে, M.A. (Bengali) 1st Sem. & 3rd Sem. – 2022-এর Internal Assessment শিক্ষকদের নির্দেশিকানুযায়ী নিয়ে সম্পূর্ণ সম্পন্ন হয়েছে।

সভায় আর কোনো আলোচনার বিষয় না থাকায় সভাপতি মহাশয়কে ধন্যবাদ জানিয়ে সভার কাজ শেষ হয়।

(সভাপতির স্বাক্ষর ও তারিখ)

Chairman
Examination Cell
PG Board of Studies
Narajole Raj College
Paschim Medinipur

NARAJOLE RAJ COLLEGE Estd.-1966

30/04/24

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মিটিং রেজল্যুশন বই
MEETING RESOLUTION BOOK

মিটিং-এর ক্রমিক সংখ্যা / Serial No. of Meeting : 16

মিটিং এর তারিখ / Date of Meeting : 22/5/2023

মিটিং এর স্থান / Venue of Meeting : online

মিটিং এর সময় / Time of Meeting : 8.00 pm

উপস্থিত সভ্যগণের নাম / Name of Members Present

১/1 Bhattacharya	৯/9	১৭/17
২/2 Bani Ranjan De	১০/10	১৮/18
৩/3 Sreetinath Chakraborty	১১/11	১৯/19
৪/4 Dipak Shom	১২/12	২০/20
৫/5 Sadhan Chandra Pandir 22/5/23	১৩/13	২১/21
৬/6	১৪/14	২২/22
৭/7	১৫/15	২৩/23
৮/8	১৬/16	২৪/24

ক্রমিক সংখ্যা Serial No.

রেজল্যুশন / RESOLUTIONS ADOPTED

অদ্য ২২.৫.২০২৩ তারিখ, সোমবার, রাত ৮-০০টায় নাড়াজোল রাজ কলেজের বাংলা স্নাতকোত্তর বিভাগের Board of Studies-এর আলোচনাসভা ইন্টারনেট মাধ্যমে Video Conference-এ সম্পন্ন (meeting link https://meet.google.com/cpd-mwwf-fot) অনুষ্ঠিত হয়। এই আলোচনাসভায় কলেজের উপাধ্যক্ষ ড. ... সভাপতির আসন গ্রহণ করেন এবং সভার কাজ শুরু হয়।

১ সভায় পূর্ববর্তী Resolutions পাঠ করা হয় এবং তা সর্বসম্মতিক্রমে অনুমোদিত হয়।

২/ সভায় ২০২২-২৩ শিক্ষাবর্ষে বাংলা স্নাতকোত্তর বিভাগের দ্বিতীয় সেমেস্টার ও চতুর্থ সেমেস্টার পরীক্ষা – ২০২৩ এর Paper-Setters (External & Internal), Examiners (External & Internal), Moderators, Reviewers নাম নির্ধারিত হয় এবং তা সর্বসম্মতিক্রমে গৃহীত হয়।

* M.A. 2nd Semester Examination (Final) – 2023 :

Papers	Internal Paper-Setters	External Paper-Setters	Examiners
BNG 201	Dr. Dipak Shom	Dr. Nirmal Bera, Sabang S. K. Mahavidyalaya, Sabang, Paschim Medinipur	Dr. Nirmal Bera (External), Sabang S. K. Mahavidyalaya
BNG 202	Dr. Sadhan Ch. Pandir	Dr. Kopotakhshi Sur, Ghatal R. S. Mahavidyalaya	Dr. Sadhan Ch. Pandir
BNG 203	Dr. Nilanjana Bhattacharya	Dr. Paramesh Acharya, Tamralipta Mahavidyalaya	Dr. Nilanjana Bhattacharya

রেজল্যুশন | RESOLUTIONS ADOPTED

Paper Code	Internal Paper-setter	External Paper-setters	Examiners
BNG 204 (CBCS)	Avijit Chakraborty	Dr. Saradabrata Laha, Raja N.L. Khan Women's College, Midnapore	Avijit Chakraborty
BNG 205 (Project Paper)	—	—	1. Amar Adikari, [illegible] (External) 2. Dr. Nilanjana Bhattacharyya (Internal)

* M.A. 4th Semester Examination (Final) – 2023 :

BNG 401	Avijit Chakraborty	Dr. Santanu [illegible], Egra S.S.B. Mahavidyalaya, Egra, Purba Medinipur	Avijit Chakraborty
BNG 402	Dr. Dipak Shom	Dr. Sujoy Maity, Raja N.L. Khan Womens' College, Midnapore	Dr. Dipak Shom
BNG 403	Dr. Nilanjana Bhattacharyya	~~[illegible]~~ Dr. Rita Sil, Garbeta College	Dr. Nilanjana Bhattacharyya
BNG 404	Dr. Sadhan Ch. Pandit	Dr. Amar Saha, Midnapore College (Autonomous)	Dr. Sadhan Ch. Pandit
BNG 405D (Natak)	Dr. Dipak Shom	Dr. Bipul Mondal, Raja N.L. Khan womens' college, Midnapore	Avijit Chakraborty
BNG 405F (Kathasahitya)	Dr. Sadhan Ch. Pandit	Dr. Amar Saha, Midnapore College (Autonomous).	Dr. Sadhan Ch. Pandit

* M.A. 2nd & 4th Semester Exam. – 2023 Reviewers :

Paper: BNG 201, 202, 203, 204, 205 → Dr. Paramesh Acharya (External), Tamralipta Mahavidyalaya, Tamluk : Purba Medinipur.

Paper: BNG 401, 402, 403, 404, 405D, 405F → Dr. Biswaranjan Ghorai, Panskura Banamali College, Panskura, Purba Medinipur. (External)

* M.A. IInd & 4th Sem. Exam. – 2023 Moderators :

Paper: 201, 202, 203, 204 (CBCS) →
Paper: 401, 402, 403, 404, 405D, 405F →

1. Prof. Bani Ranjan De (External), Dept. of Bengali, V.U.
2. Prof. Srutinath Chakraborty (External), Former Professor, Dept. of Bengali, Vidyasagar University.
3. Dr. Nilanjana Bhattacharyya (Internal)
4. Dr. Dipak Shom (Internal)

Attested
30/04/24

Principal
Narajole Raj College
Narajole, Pin-721 211

বিদ্যালয় SCHOO

মিটিং রেজল্যুশন বই
MEETING RESOLUTION BOOK

মিটিং-এর ক্রমিক সংখ্যা / Serial No. of Meeting :

মিটিং এর তারিখ / Date of Meeting :

মিটিং এর স্থান / Venue of Meeting :

মিটিং এর সময় / Time of Meeting :

উপস্থিত সভ্যগণের নাম / Name of Members Present

১/1	৯/9	১৭/17
২/2	১০/10	১৮/18
৩/3	১১/11	১৯/19
৪/4	১২/12	২০/20
৫/5	১৩/13	২১/21
৬/6	১৪/14	২২/22
৭/7	১৫/15	২৩/23
৮/8	১৬/16	২৪/24

ক্রমিক সংখ্যা Serial No.

রেজল্যুশন / RESOLUTIONS ADOPTED

৩। সভাতে আলোচনার পর এই সিদ্ধান্ত হয় যে, বিদ্যাসাগর বিশ্ববিদ্যালয়ের Rules & Regulations অনুযায়ী ও Question pattern নির্দিষ্ট হওয়ায় সেইমত প্রশ্নকর্তাদের প্রশ্নপত্র তৈরী করতে বলা হয়। নির্দিষ্ট সময়ের মধ্যে External & Internal paper-setter-দের কাছ থেকে প্রশ্নপত্র সংগ্রহ করে PG Board of Moderators মিটিং করে প্রশ্নপত্র Moderation করা হবে।

৪। আলোচনাক্রমে আরও সিদ্ধান্ত হয় যে, M.A. 2nd & 4th Sem.-2023-এর Internal Assessment বিদ্যাসাগর বিশ্ববিদ্যালয়ের নিয়ম অনুযায়ী সম্পন্ন হয়েছে।

সভায় আর কোনো আলোচ্য বিষয় না থাকায় সভাপতি মহাশয় উপস্থিত সকলকে ধন্যবাদ জানিয়ে সভার কাজ সমাপ্ত করেন।

Attested
27/04/24

Principal
Narajole Raj College
Narajole Pin-721 211

NARAJOLE RAJ COLLEGE Estd. 1960

Chairman
Examination Cell
PG Board of Studies
Narajole Raj College
Paschim Medinipur
2.5.23

Narajole Raj College

MASTER ROUTINE -SESSION-2022-23-SEMESTER-I, III, V (Arts)

Day	Semester	10.00-11.00	11.00-12.00	12.00-01.00	01.00-02.00	02.00-03.00	03.00-04.00	04.00-05.00
Monday	I (H)	C1T-Pol.Sc-S1(R.D)	C1T-Eng-G3 (SDR) C1T-San-G7 (AC) C1T-Phil-S3 (BM) C1T-His-S4 (BG)	C2T-Beng-SH (TX) C1T-Eng-G7 (MB) C2T-San-G3 (AB) C2T-Phil-S3 (xxx) C2T-His-S4 (UC) C2T-Pol.Sc-S5 (xx)	GE1T-Beng-SH (TX) GE1T-Eng-S1 (XX) GE1T-San-S2 (EX) GE1T-Phil-S3 (BM) GE1T-His-S4 (UC) GE1T-Pol.Sc-S5 (XXX) GE1T-Edu-LRR (M.A)			C1T-Beng-SH (SP)
	I (G)	DSC1AT/2AT-Phy.Edu-A1 (AN) DSC1AT/2AT-San-A2 (US)	DSC1_LRR-GJ DSC1AT/2AT-Phil-A6 (AG) DSC1AT/2AT-His-S2 (MKN)	AECC1T Core (ENG-I)-A5 (XX)	DSC1AT/2AT-Pol.Sc-TR (XXX)	DSC1AT/2AT-Phy.Edu-A8 (AN) DSC1AT/2AT-San-A5 (Ex)	DSC1AT/2AT-Beng-LRR (XX)	DSC1AT/2AT-Eng-G1 (XX)
	III (H)	C6T-Sans-F1-(KS) C7T-Beng-F3-SCP C6T-Phlo-F4(B.M) C7T-S4(MM)	C5T-Beng-G6 (TX) C5T-Eng-G5 (SDR) C5T-San-G4 (RM) C5T-Phil-S1 (ST) C5T-His-G1 (UC) C5T-Pol.Sc-A5(PS)	C6T-Beng-LRR (GJ) C6T-Eng-G5 (MM) C6T-San-G4 (KS) C6T-His-G1 (BG) C6T-Pol.Sc-A7 (RD)	C7T-Beng-G6 (TX) C6T-Eng-G5 (MB) C7T-San-G4 (AB) C7T-Phil-S6 (ST) C7T-His-G1 (MKN) C7T-Pol.Sc-S7 (PS)	GE3T-Beng-SH (SP) GE3T-Eng-G5 (MM) GE3T-San-G4 (Ex) GE3T-Phil-G3 (B.M) GE3T-His-G1 (NS) GE3T-Pol.Sc-S6 (BR) GE3T-Edu-LRR (SMA)	SEC1T-Beng-G7 (NB) SEC1T-Eng-G5 (MB) SEC1T-San-G4 (KS) SEC1T-Phil-G3 (AG) SEC1T-His-G1 (MKN) SEC1T-Pol.Sc-S7 (RD)	
	III (G)	DSC1CT/2CT-Eng-A4 (SDR)	DSC1CT/2CT-Phy.Edu-TR (AN) DSC1CT/2CT-San-S6 (Ex)	DSC1CT/2CT-Phy.Edu-TR (A.N)AECC3T Core (ENG-II)-S1 (XX)		DSC1CT/2CT-Phil-A4 (XXX) DSC1CT/2CT-His-S2 (UC)	DSC1CT/2CT-Pol.Sc-S2 (PS) DSC1CT/2CT-Beng-SH (AC)	SEC1T-Beng-G7 (TX) SEC1T-Eng-G1 (MB) SEC1T-San-G4 (AC) SEC1T-Phil-G3 (XXX) SEC1T-His-G6 (NS) SEC1T-Pol.Sc-S4 (P.S) SEC1T-Edu-A2 (SMA) SEC1P-Phy.Edu-Field (AN)
	V (H)		DSE2T-Beng-G6 (NB) DSE2T-Eng-A1 (XX) DSE2T-San-A2 (AB) DSE2T-Phil-A3 (XXX) DSE2T-His-A4 (NS) DSE2T-Pol.Sc-A7 (RD)	C12T-Beng-LRR (TX) C11T-Eng-A1 (SDR) C11T-San-A2 (KS) C12T-Phil-A3 (AG) C12T-His-A4 (MKN) C12T-Pol.Sc-S6 (RD)	C11T-Beng-G3 (GJ) DSE1T-Eng-A1 (SDR) C12T-San-A2 (Ex) C11T-Phil-A3 (AG) C11T-His-A4 (BG) C11T-Pol.Sc-TR (RD)	DSE1T-Beng-G7 (TX) C12T-Eng-S6 (MB) DSE1T-San-G6 (EX) DSE1T-Phil-S3 (A.G) DSE1T-His-S4 (BG) DSE1T-Pol.Sc-F. Annex (PS)	DSE1T-Beng-LRR (GJ) DSE2T-Eng-G7 (MM) DSE2T-San-S2 (AC) DSE2T-Phil-S3 (ST) DSE2T-His-S4 (BG) DSE2T-Pol.Sc-S5 (BR)	DSE2T-His-S4 (BG) C115T-Phil-A6(A.G)
	V (G)	GE1T-Beng-SH (TX) GE1T-Eng-G5 (XXX) GE1T-San-G4 (Ex) GE1T-Phil-G3 (S.T) GE1T-His-G1 (UC) GE1T-Pol.Sc-G7 (XXX) GE1T-Edu-G6 (SMA)	DSE1AT/2AT-His-A5 (XXX)	DSE1AT/2AT-Pol.Sc-TR (XXX)	DSE1AT/2AT-Phy.Edu-A5 (AN) DSE1AT/2AT-San-A6 (RM)	DSE1AT/2AT-Phil-S5 (S.T)	GE1T-Phy.Edu-A3 (A.N) DSE1AT/2AT-Pol.Sc-S1 (XXX) DSE1AT/2AT-Beng-A4 (TX)	SEC3T-Beng-LRR (AC) SEC3T-Eng-G5 (MM) SEC3T-San-S4 (AB) SEC3T-Phil-S3 (BM) SEC3T-His-S1 (MN) SEC3T-Pol.Sc-S2 (XXX) SEC3T-Phy.Edu-A1 (A.N)
Tuesday	I (H)	C1T- Sans -F1-(RM) GE1T	C2T-Beng-LRR-(GJ)	C1T-Beng-SH (DS) C1T-Eng-G7 (PPM) C1T-San-G5 (TJ) C1T-Phil-S2 (BM) C1T-His-G4 (BG)	GE1T-Beng-G3 (NB) GE1T-Eng-G7 (MM) GE1T-San-G5 (US) GE1T-Phil-S1 (BM) GE1T-His-G4 (MKN) GE1T-Pol.Sc-S6 (PS) GE1T-Edu-A8 (I.A)	C2T-Beng-SH (AC) C2T-Eng-G7 (MM) C2T-San-G5 (TR) C2T-Phil-S4 (ST) C2T-His-S5 (MKN) C2T-Pol.Sc-S3 (BR)	AECC1T Elective ENG-SH (MB)	
	I (G)	DSC1AT/2AT-His-G7 (EX) DSC1AT/2AT-Phil-S6(T.A) DSC1AT/2AT-Edu-S.H(I.A)	DSC1AP/2AP-Phy.Edu-Field (PKM) DSC1AT/2AT-Edu-LRR(M.A)	DSC1AT/2AT-San-S3 (US) DSC1AP/2AP-Phy.Edu-Field (AN)	DSC1AT/2AT-Beng-G1 (GJ) DSC1AT/2AT-Pol.Sc-A7 (SS)	DSC1AT/2AT-Edu-A6 (M.A) DSC1AT/2AT-Eng-A5 (PPM)	AECC1T Elective BENG- G6 (NB)	AECC1T Core (ENG-I)-SH (MB)
	III (H)	C6T -BENG -F3 (AC) C7T-S4(PPM)	C6T-Beng-SH (AC) C6T-Eng-G6 (SDR) C6T-San-G1 (TJ) C6T-Phil-S4 (BM) C6T-His-S5 (MKN) C6T-Pol.Sc-S6 (SS)	C7T-Beng-LRR (GJ) C7T-Eng-G3 (SDR) C7T-San-G6 (AB) C7T-Phil-F5 (XXX) C7T-His-S5 (NS) C7T-Pol.Sc-S6 (PS)	C7T-Beng-SH (SCP) C5T-Eng-S2 (SDR) C5T-San-S3 (RM) C5T-Phil-S4 (S.T) C6T-His-S5 (NS) C5T-Pol.Sc-F5 (RD)	GE3T-Beng-S2 (SCP) GE3T-Eng-A8 (XXX) GE3T-San-G1 (AB) GE3T-Phil-G3 (XXX) GE3T-His-G4 (NS) GE3T-Pol.Sc-S6 (PS) GE3T-Edu-G6 (I.A)		
	III (G)	DSC1CT/2CT-Phil-S2(S.T)	AECC3T Core (ENG-II)-A2 (MB)	DSC1CP/2CP-Phy.Edu-Field (PKM)	DSC1CT/2CT-San-A3 (KS) DSC1CP/2CP-Phy.Edu-Field (PKM)	DSC1CT/2CT-Beng-S2 (TXX) DSC1CT/2CT-Pol.Sc-S7 (RD)	SEC1T-His-S1 (UC) DSC1CT/2CT-Eng-G3 (XX)	SEC1T-Beng-LRR (GJ) SEC1T-Eng-G5 (XX) SEC1T-San-S4 (TJ) SEC1T-Phil-S3 (S.T) SEC1T-His-S1 (UC) SEC1T-Pol.Sc-S2 (SS) SEC1T-Edu-G7 (M.A) SEC1P-Phy.Edu-Field (AN)
	V (H)		C11T-Beng-LRR (TXX) C11T-Eng-G7 (MM) C11T-San-G5 (AC) C11T-Phil-S1 (XXX) C11T-His-G4 (BG) C11T-Pol.Sc-S3 (RD)	C12T-Beng-G6 (TXX) C11T-Eng-G1 (MM) C12T-San-A1 (KS) C12T-Phil-A2 (ST) C12T-His-A3 (UC) C12T-Pol.Sc-S7 (BR)	DSE2T-Eng-LRR (PPM) DSE2T-San-A1 (EX) DSE2T-Phil-A2 (T.A) DSE2T-His-A3 (BG) DSE2T-Pol.Sc-A4 (BR)	DSE1TH-Beng-F5 (DS) C12T-Eng-S3 (MB) DSE1T-San-A1 (TJ) DSE1T-Phil-A2 (BM) DSE1T-His-A3 (UC) DSE1T-Pol.Sc-A4 (SS)	C11T-SH-GJ	DSE1T-S6 (SDR) DSE1T-San-A3 (RM)
	V (G)	GE1T-Beng-LRR (TXX) GE1T-Eng-G5 (XXX) GE1T-San-G4 (RM) GE1T-Phil-G3 (XXX) GE1T-His-G1 (MN) GE1T-Pol.Sc-A1 (R.D) GE1T-Edu-A2 (M.A) GE1T-Phy.Edu-A3 (AN)	DSE1AT/2AT-Phy.Edu-G3 (AN) DSE1AT/2AT-San-A5 (RM)	DSE1AT/2AT-Pol.Sc-TR (XXX) GE1T-Edu-A2-(I.A)	DSE1AT/2AT-San-A5 (EX) DSE1AT/2AT-Phy.Edu-TR (AN)	DSE1AT/2AT-Eng-F. Annex (XXX)	C11-HIST-G4 (BG) DSE1AT/2AT-Beng-XX (XX)	SEC3TG-Beng-G7 (AC) SEC3T-Eng-G5 (XXX) SEC3T-San-G4 (AC) SEC3T-Phil-G3 (BM) SEC3T-His-G6 (NS) SEC3T-Pol.Sc-S4 (B.R) SEC3T-Edu-A2 (I.A) SEC3T-Phy.Edu-A1 (PKM)
Wednesday	I (H)	C1T-Phil-F4(T.A)		C2T-Beng-SH (GJ) C2T-Eng-S3 (MM) C2T-San-S2 (TR) C2T-Phil-A3 (S.T) C2T-His-S4 (EX) C2T-Pol.Sc-S5 (SS)	GE1T-Beng-SH (DS) GE1T-Eng-S1 (XX) GE1T-San-G5 (KS) GE1T-Phil-A1 (TA) GE1T-His-G4 (BPJ) GE1T-Pol.Sc-Geo. Annex (PS) GE1T-Edu-S6 (I.A)	C1T-Beng-SH (TXX) C2T-Eng-G1 (SDR) C1T-His-S4 (BG) C1T-Pol.Sc-S5 (RD)		C1T-San-A3 (RM) C2-HIST-S4(NS)
	I (G)	DSC1AT/2AT-Edu-A4 (I.A) DSC1AT/2AT-Eng-G7 (MM)	DSC1AP/2AP-Phy.Edu-Field (AN) DSC1AT/2AT-San-S1 (RM)	DSC1AP/2AP-Phy.Edu-Field (A.N)	DSC1AT/2AT-Phil-A5 (XXX)	AECC1T Core (ENG-I)-LRR (XX)	DSC1AT/2AT-His-G7 (EX)	DSC1AT/2AT-Pol.Sc-A1 (RD) DSC1AT/2AT-Beng-G7 (MA)
	III (H)	C5T-San-G4 (US)	C5T-Beng-SH (MA) C5T-Eng-G5 (SK) C6T-San-G4 (TJ) C5T-Phil-S3 (XX) C5T-His-G1 (BPJ) C5T-Pol.Sc-S2 (RD)	C6T-Beng-G6 (DS) C7T-Eng-G5 (PPM) C6T-Phil-S6 (T.A) C6T-His-G1 (BG) C6T-Pol.Sc-S7 (PS)	C7T-Beng-LRR (SCP) C6T-Eng-S2 (MM) C7T-San-S3 (TR) C7T-Phil-F5 (XXX) C7T-His-S4 (NS) C7T-Pol.Sc-S5 (SS)	GE3T-Beng-G4 (SCP) GE3T-Eng-F5 (XXX) GE3T-San-G6 (TJ) GE3T-Phil-G7 (BM) GE3T-His-S2 (BPJ) GE3T-Pol.Sc-S6 (PS)	C6T-Beng-G6 (GJ) C6T-Eng-G5 (MM) C7T-San-G4 (AC) C7T-His-G1 (NS) C7T-Pol.Sc-G7 (PS)	C7T-Phil-A6(S.T)
	III (G)	DSC1CT/2CT-Eng-A5 (SK)	DSC1CT/2CT-Edu-LRR (IA)	AECC3T Core (ENG-II)-LRR (SK)	DSC1CP/2CP-Phy.Edu-Field (AN) DSC1CT/2CT-San-G6 (US)	DSC1CP/2CP-Phy.Edu-Field (A.N)	DSC1CT/2CT-Pol.Sc-S2 (SS) DSC1CT/2CT-Beng-S1 (MA)	DSC1CT/2CT-Phil-S1 (S.T) DSC1CT/2CT-His-S2 (BG)DS1C-S6 (PPM)
	V (H)	GE1-HIST-G1(BPJ) C11-HIST-G3(NS) DSE2TH-BENG G6 -GJ	C12T-Beng-G6 (DS) C11T-Eng-LRR (SDR) C12T-San-G7 (KS) C12T-Phil-A2 (XXX) C12T-His-G3 (EX) C12T-Pol.Sc-A7 (SS)	C11T-Beng-LRR (TXX) DSET-Eng-G3 (SDR) C11T-San-A1 (AC) C11T-Phil-A2 (BM) C11T-His-F5 (BPJ) C11T-Pol.Sc-A4 (RD)	DSE1T-Beng-G3 (GJ) C12T-Eng-G7 (PPM) DSE1T-San-A1 (RM) DSE1T-Phil-A2 (BM) DSE1T-His-A3 (BG) DSE1T-Pol.Sc-A4 (XXX)	C12T-Beng-S6 (TXX) C12T-Eng-G5 (PPM) C12T-San-S3 (US) C12T-Phil-S7 (S.T) C12T-His-S5 (NS) C12T-Pol.Sc-S1 (SS)		
	V (G)	GE1T-Beng-SH (TXX) GE1T-Eng-G5 (XXX) GE1T-San-G4 (TR) GE1T-Phil-G3 (S.T) GE1T-His-G1 (BS) GE1T-Pol.Sc-S2 (S.S) GE1T-Phy.Edu-A7 (AN)	DSE1AT/2AT-Phil-A4 (S.T) DSE1AT/2AT-His-S4 (BG)	DSE1AT/2AT-Eng-A5 (XXX)	DSE1AT/2AT-His-A6 (EX)	DSE1AT/2AT-Pol.Sc-TR (S.S) DSE1AT/2AT-Beng-A5 (TXX) DSE1AT/2AT-Edu-S4 (I.A)	DSE1AT/2AT-Phy.Edu-A2 (AN) DSE1AT/2AT-San-A3 (TJ)	GE1T-Beng-SH (TXX) GE1T-Eng-G5 (XXX) GE1T-San-G4 (TJ) GE1T-Phil-G3 (T.A) GE1T-His-G1 (EX) GE1T-Pol.Sc-S2 (R.D) GE1T-Phy.Edu-G7 (AN)
Thursday	I (H)	C1-HIST-G3(BS)	C2T-Beng-SH (MA) C1T-Eng-G5 (SDR) C2T-San-S2 (US) C2T-Phil-S3 (A.G) C2T-His-S4 (MKN) C2T-Pol.Sc-S5 (PS)	C1T-Beng-SH (DS) C1T-San-G3 (RM) C1T-Phil-S3 (TA) C1T-His-S4 (EX) C1T-Pol.Sc-S5 (SS)	GE1T-Beng-SH (DS) GE1T-Eng-S1 (XX) GE1T-San-S2 (TR) GE1T-Phil-S3 (XXX) GE1T-His-S4 (MKN) GE1T-Pol.Sc-S5 (PS) GE1T-Edu-G7 (I.A)	AECC1T Elective ENG-SH (SK)		C2T-ENG-S6 (SK)
	I (G)	DSC1AT/2AT-Pol.Sc-S3 (B.R) DSC1AT/2AT-Beng-G6 (TXXX)	DSC1AT/2AT-San-A8 (TR) DSC1AT/2AT-Phy.Edu-A5 (P.K.M)	DSC1AT/2AT-Phil-A5 (XXX)	DSC1AT/2AT-His-A6 (BG)	AECC1T Elective BENG-S5 (MA)	AECC1T Core (ENG-I)-SH (XX)	DSC1AT/2AT-Edu-G7 (I.A) DSC1AT/2AT-Eng-G6 (MM)
	III (H)	C6T-San-F1 (US)	C6T-Beng-G6 (TXX) C5T-Eng-A6 (SK) C6T-Phil-G3 (S.T) C6T-His-G1 (BS) C6T-Pol.Sc-S6 (BR)	C7T-Beng-G6 (NB) C5T-Eng-G5 (SDR) C7T-San-G4 (TR) C7T-Phil-S2 (A.G) C7T-His-G1 (MKN)	C5T-Beng-G6 (DR) C7T-Eng-G5 (PPM) C5T-San-G4 (US) C5T-Phil-S7 (TA) C5T-His-G1 (BS) C5T-Pol.Sc-S6 (SS)	GE3T-Beng-G6 (TXX) GE3T-Eng-G5 (XXX) GE3T-San-G4 (US) GE3T-Phil-G3 (A.G) GE3T-His-A3 (BPJ) GE3T-Pol.Sc-A4 (PS) GE3T-Edu-G7 (I.A)	SEC1T-Beng-G6 (NB) SEC1T-Eng-SH (SK) SEC1T-San-G4 (AC) SEC1T-Phil-G3 (A.G) SEC1T-His-G1 (MKN) SEC1T-Pol.Sc-S6 (SS)	C6T-Pol.Sc-S1(P.S)
	III (G)	DSC1CT/2CT-Pol.Sc-S1 (SS) DSC1CT/2CT-Beng-LRR (TXX)	AECC3T Core (ENG-II)-S1 (XX)	SEC1P-Phy.Edu-Field (PKM)	SEC1P-Phy.Edu-Field (PKM)	DSC1CT/2CT-Eng-S2 (MM)	DSC1CT/2CT-San-A1 (TR) DSC1CT/2CT-Phy.Edu-A2 (P.K.M) DSC1CT/2CT-Edu-S3(I.A)	DSC1CT/2CT-Phil-A1 (ST) DSC1CT/2CT-His-A2 (BS) SEC1T-ENG-G5-(SK)
	V (H)		C11T-Beng-SH (AC) C11T-Eng-LRR (PPM) C11T-San-A1 (TJ) C11T-Phil-A2 (TA) C11T-His-A3 (BPJ) C11T-Pol.Sc-A4 (SS)	DSE1T-Beng-LRR (TXX) DSE2T-Eng-S3 (PPM) DSE1T-San-A1 (TJ) DSE1T-Phil-A2 (XXX) DSE1T-His-A3 (BG) DSE1T-Pol.Sc-A4 (BR)	DSE2T-Beng-LRR (TXX) C11T-Eng-S3 (SDR) DSE2T-San-A1 (AB) DSE2T-Phil-A2 (ST) DSE2T-His-A3 (BPJ) DSE2T-Pol.Sc-A7(BR)	C12-HIST-S5-MN		C12T - BENG- F3 (DR)
	V (G)	GE1T-Beng-SH (DS) GE1T-Eng-G5 (XXX) GE1T-San-G4 (RM) GE1T-Phil-G3 (TA) GE1T-His-G1 (EX) GE1T-Pol.Sc-G7 (XXX) GE1T-Edu-A1 (I.A) GE1T-Phy.Edu-A2 (P.K.M)	DSE1AT/2AT-Beng-G7 (DR)	DSE1AT/2AT-Pol.Sc-A6 (SS)	DSE1AT/2AT-His-G6 (XXX)	DSE1AT/2AT-Phy.Edu-S4 (PKM) DSE1AT/2AT-Eng-A2 (XXX)	DSE1A-HIST-A6-(BPJ) DSE1AT/2AT-San-S2 (RM)	DSE1AT/2AT-Phil-S4 (A.G)
Friday	I (H)	C1T-San-F1 (AC) DSC1A-HIST-G7(UC)	C2T-Beng-SH (TXX) C2T-Eng-S5 (PPM) C2T-San-S2 (TR) C2T-Phil-S3 (ST) C2T-His-S4 (UC) C2T-Pol.Sc-S5 (BR)	C1T-Beng-SH (SCP) C1T-Eng-S1 (TG) C1T-His-S4 (BG) C1T-Pol.Sc-S5 (RD)	GE1T-Beng-SH (DR) GE1T-Eng-S1 (XX) GE1T-San-G5 (AB) GE1T-Phil-S3 (BM) GE1T-His-G1 (MKN) GE1T-Pol.Sc-S5 (XXX) GE1T-Edu-G7 (M.A)			C1T-Phil-A6(T.A)C1T-ENG-S6 (MM)
	I (G)	DSC1AT/2AT-His-G7 (NS) DSC1AT/2AT-Phil-S1 (XXX)	DSC1AT/2AT-Beng-SH_(SP)	DSC1AT/2AT-Pol.Sc-TR (XXX)	DSC1AT/2AT-Phy.Edu-TR (PKM) DSC1AT/2AT-San-G3 (TR)	DSC1AT/2AT-Phil-A5 (TA)	DSC1AT/2AT-Eng-A2 (XX) DSC1AT/2AT-Edu-A3 (M.A)	AECC1T Core (ENG-I)-SH (PPM)
	III (H)	C5T_G6 (SP) C6T-His-G1 (MKN)	C7T-Beng-G6 (NB) C5T-Eng-G5 (SDR) C7T-San-G4 (AB) C7T-Phil-G3 (XXX) C7T-His-G1 (MKN)	C6T-Beng-G6 (TXX) C7T-Eng-G5 (PPM) C6T-San-G4 (TJ) C6T-Phil-G3 (ST) C6T-His-G1 (EX) C6T-Pol.Sc-S6 (BR)	C5T-Beng-G6 (TXX) C5T-Eng-S2 (SDR) C5T-San-A8 (EX) C5T-Phil-F5 (T.A) C5T-His-S4 (UC) C5T-Pol.Sc-Geo. Annex (RD)	GE3T-Beng-G6 (MA) GE3T-Eng-G5 (XXX) GE3T-San-G4 (AC) GE3T-Phil-G3 (B.M) GE3T-His-G1 (BS) GE3T-Pol.Sc-S6 (SS) GE3T-Edu-G7 (SMA)	C5T-BENG-G6 (DR)	Pol.Sc-A2(SS)
	III (G)	DSC1CT/2CT-His-G5 (BS) DSC1CT/2CT-Phil-G3 (BM)	DSC1CT/2CT-Pol.Sc-TR (XXX)	DSC1CT/2CT-Beng-LRR (SP)	DSC1CT/2CT-Phy.Edu-A5 (AN) DSC1CT/2CT-San-A6 (AC)	SEC 1CT/2CT-Phy.Edu-A5 (P.K.M) DSC1CT/2CT-Eng-S1 (PPM)	SEC CT/2CT-Phy.Edu-A5 (A.N) AECC3T Core (ENG-II)-SH (XX)	
	V (H)	C12T -BENG-F3(DR)	DSE1T-Beng-G7 (DR) DSE1T-Eng-LRR (SDR) DSE1T-San-A1 (TJ) DSE1T-Phil-A2 (B.M) DSE1T-His-A3 (BS) DSE1T-Pol.Sc-A4 (XXX)	C11T-Beng-G7 (NB) DSE1T-Eng-LRR (XX) DSE2T-San-A1 (AB) C11T-Phil-A2 (BM) C12T-His-A3 (UC) C11T-Pol.Sc-A4 (SS)	DSE2T-Beng-LRR (DS) DSE2T-Eng-S6 (PPM) C11T-San-A1 (EX) DSE2T-Phil-A2 (XX) DSE2T-His-A3 (BG) DSE2T-Pol.Sc-A4 (SS)	C12T-Beng-SH (TXX) C12T-Eng-LRR (PPM) C12T-San-A1 (KS) C12T-Phil-A2 (ST) C12T-His-F5 (MKN) C12T-Pol.Sc-A4 (RD)		
	V (G)	GE1T-Beng-G6 (MA) GE1T-Eng-A7 (XXX) GE1T-San-G4 (KS) GE1T-Phil-A5 (S.T) GE1T-His-G1 (EX) GE1T-Pol.Sc-A6 (R.D) GE1T-Edu-G6 (M.A) GE1T-Phy.Edu-A8 (AN)	DSE1AT/2AT-His-A8 (BG)	DSE1AT/2AT-Phil-A6 (XXX) GE1TG-BENG-A5-(DR)	DSE1AT/2AT-Phy.Edu.-PE Lab (A.N.& P.K.M) DSE1AT/2AT-San-G4 (TJ)	DSE1AT/2AT-Eng-S3 (MM)	DSE1A-HIST-G3(BS) DSE1AT/2AT-Beng-LRR (SP) DSE1AT/2AT-Pol.Sc-S2 (XXX)	SEC-1F (A.N) DSE1A-HIST-G3(BS) DSE1AT/2AT-Phil-G1 (XXX)
Saturday	I (H)	C1T-San-F1 (AB)	C1T-Beng-F3 (DR) C1T-Eng-S5 (SK) C2T-San-S2 (TR) C2T-Phil-S3 (AG) C2T-His-S4 (MKN) C2T-Pol.Sc-S5 (BR)	C1T-Beng-SH (SP) C1T-Eng-S2 (PPM) C1T-Phil-S3 (B.M) C1T-His-S4 (BS) C1T-Pol.Sc-S7 (SS)	GE1T-Beng-G1 (DR) GE1T-Eng-S1 (MB) GE1T-San-G3 (TR) GE1T-Phil-S3 (TA) GE1T-His-S4 (MKN) GE1T-Pol.Sc-Com Lab (PS)	GE1T-Edu-G7 (IA)		
	I (G)	AECC1T Core (ENG-I)-SH (SK)	DSC1AT/2AT-His-G7 (NS)	DSC1AT/2AT-Eng-A5 (XX) DSC1AT/2AT-Edu-S5 (M.A)	DSC1AT/2AT-Beng-A5 TXX DSC1AT-ENG-S5(MM)	FIELD-Phy.Edu (A.N) DSC1AT/2AT-Pol.Sc-S1 (PS)	FIELD-Phy.Edu-A5 (A.N	
	III (H)		C5T-Beng-G6 (SP) C6T-Eng-G5 (MM) C5T-San-G4 (TJ) C5T-Phil-G3 (XXX) C5T-His-G1 (BS) C5T-Pol.Sc-S6 (SS)	C6T-Beng-G6 (DS) C6T-Eng-G5 (MB) C6T-San-G4 (TJ) C6T-Phil-G3 (T.A) C6T-His-G1 (MN) C6T-Pol.Sc-S6 (BR)	GE3T-Beng-F3 (SCP) GE3T-Eng-G5 (PPM) GE3T-San-A1 (AC) GE3T-Phil-S2 (XXX) GE3T-His-G4 (BPJ) GE3T-Pol.Sc-A4 (BR)			
	III (G)	AECC3T Core (ENG-II)-LRR (XX)	DSC1CT/2CT-His-A8 (EX) SEC1T-Edu-S.H(I.A)	DSC1CT/2CT-Edu-A8 (I.A) DSC1CT/2CT-Eng-A6 (XX)	FIELD-Phy. (A.N) DSC1CT/2CT-Phil-A6 (XXX)	FIELD-Phy.Edu(A.N) DSC1CT/2CT-Beng-F3 (TXX) DSC1CT/2CT-Pol.Sc-S2 (RD)		
	V (H)	C11T-San-F1 (TJ) DSE1-HIST-A3(BS) DSE2T-G5 (MM) DSE2TH-BENG- F3 (NB) DSE2T-Pol.Sc-S1(SS) C12T-Phil-F4(A.G)	C11T-Beng-F4 (NB) C12T-Eng-LRR (PPM) C11T-Phil-A2 (B.M) C11T-His-A3 (EX)	C12T-Beng-G7 (SCP) C11T-Eng-A1 (MM) C12T-San-F2 (AB) C11T-His-A3 (BPJ) C12T-Pol.Sc-A4 (RD)	DSE1T-Beng-F4 (TXX) DSE1T-Eng-LRR (SK) DSE2T-San-F5 (AB) DSE1T-Phil-S7 (B.M) DSE1T-His-A3 (EX)	DSE2T-Beng-F4 (DR) DSE1T-Eng-SH (XX) DSE1T-San-F1 (TR) DSE2T-Phil-S2 (TA) DSE2T-His-G6 (BPJ) DSE2T-Pol.Sc-S3 (BR) C11T-Pol.Sc-A4(R.D)		
	V (G)	DSE1A-G7 (MB) DSE1A-Edu-S4 (M.A)	FIELD-Phy.Edu(A.N) DSE1AT/2AT-His-A6 (BPJ)	FIELD-Phy.Edu(A.N) DSE1AT/2AT-Eng-A7 (XXX) DSE1TG-BENG-F4(DR)	DSE1AT/2AT-Phil-A7 (A.G) DSE1AT/2AT-Edu-LRR (I.A) GE1T-Edu-G6 (M.A)	DSE1AT/2AT-Beng-G7 (SP) SEC3T-Edu-G7(M.A) SEC3T-ENG -SH (SH)		

30/04/24

Principal
Narajole Raj College
Narajole, Pin-721 211

MASTER ROUTINE -SESSION-2022-23-SEMESTER-II, IV, VI (Arts)

Day	Semester	10.00-11.00	11.00-12.00	12.00-01.00	01.00-02.00	02.00-03.00	03.00-04.00	04.00-05.00
Monday	II (H)	C3T-Pol.Sc-S1(R.D)	C3T-Eng-G3 (SDR) C3T-San-G7 (AC) C3T-Phil-S3 (BM) C3T-His-S4 (BG)	C4T-Beng-SH (TX) C4T-Eng-G7 (MB) C4T-San-G3 (AB) C4T-Phil-S3 (xxx) C4T-His-S4 (UC) C4T-Pol.Sc-S5 (xx)	GE2T-Beng-SH (TX) GE2T-Eng-S1 (XX) GE2T-San-S2 (EX) GE2T-Phil-S3 (BM) GE2T-His-S4 (UC) GE2T-Pol.Sc-S5 (XXX) GE2T-Edu-LRR (M.A)			C3T-Beng-SH (SP)
	II (G)	DSC1BT/2BT-Phy.Edu-A1 (AN) DSC1BT/2BT-San-A2 (US)	DSC1_LRR-GJ DSC1BT/2BT-Phil-A6 (AG) DSC1BT/2BT-His-S2 (MKN)	AECC3T Core (ENG-I)-A5 (XX)	DSC1BT/2BT-Pol.Sc-TR (XXX)	DSC1BT/2BT-Phy.Edu-A8 (AN) DSC1BT/2BT-San-A5 (Ex)	DSC1BT/2BT-Beng-LRR (XX)	DSC1BT/2BT-Eng-G1 (XX)
	IVI (H))	C9T-Sans-F1-(KS) C10T-Beng-F3-SCP C9T-Phlo-F4(B.M) C10T-S4(MM)	C8T-Beng-G6 (TX) C8T-Eng-G5 (SDR) C8T-San-G4 (RM) C8T-Phil-S1 (ST) C8T-His-G1 (UC) C8T-Pol.Sc-A5(PS)	C9T-Beng-LRR (GJ) C9T-Eng-G5 (MM) C9T-San-G4 (KS) C9T-His-G1 (BG) C9T-Pol.Sc-A7 (RD)	C10T-Beng-G6 (TX) C9T-Eng-G5 (MB) C10T-San-G4 (AB) C10T-Phil-S6 (ST) C10T-His-G1 (MKN) C10T-Pol.Sc-S7 (PS)	GE4T-Beng-SH (SP) GE4T-Eng-G5 (MM) GE4T-San-G4 (Ex) GE4T-Phil-G3 (B.M) GE4T-His-G1 (NS) GE4T-Pol.Sc-S6 (BR) GE4T-Edu-LRR (SMA)	SEC2T-Beng-G7 (NB) SEC2T-Eng-G5 (MB) SEC2T-San-G4 (KS) SEC2T-Phil-G3 (AG) SEC2T-His-G1 (MKN) SEC2T-Pol.Sc-S7 (RD)	
	IVI (G)	DSC1DT/2DT-Eng-A4 (SDR)	DSC1DT/2DT-Phy.Edu-TR (AN) DSC1DT/2DT-San-S6 (Ex)	DSC1DT/2DT-Phy.Edu-TR (A.N)AECC3T Core (ENG-II)-S1 (XX)		DSC1DT/2DT-Phil-A4 (XXX) DSC1DT/2DT-His-S2 (UC)	DSC1DT/2DT-Pol.Sc-S2 (PS) DSC1DT/2DT-Beng-SH (AC)	SEC2T-Beng-G7 (TX) SEC2T-Eng-G1 (MB) SEC2T-San-G4 (AC) SEC2T-Phil-G3 (XXX) SEC2T-His-G6 (NS) SEC2T-Pol.Sc-S4 (P.S) SEC2T-Edu-A2 (SMA) SEC1P-Phy.Edu-Field (AN)
	VI (H))		DSE4T-Beng-G6 (NB) DSE4T-Eng-A1 (XX) DSE4T-San-A2 (AB) DSE4T-Phil-A3 (XXX) DSE4T-His-A4 (NS) DSE4T-Pol.Sc-A7 (RD)	C14T-Beng-LRR (TX) C13T-Eng-A1 (SDR) C13T-San-A2 (KS) C14T-Phil-A3 (AG) C14T-His-A4 (MKN) C14T-Pol.Sc-S6 (RD)	C13T-Beng-G3 (GJ) DSE3T-Eng-A1 (SDR) C14T-San-A2 (Ex) C13T-Phil-A3 (AG) C13T-His-A4 (BG) C13T-Pol.Sc-TR (RD)	DSE3T-Beng-G7 (TX) C14T-Eng-S6 (MB) DSE3T-San-G6 (EX) DSE3T-Phil-S3 (A.G) DSE3T-His-S4 (BG) DSE3T-Pol.Sc-F. Annex (PS)	DSE3T-Beng-LRR (GJ) DSE4T-Eng-G7 (MM) DSE4T-San-S2 (AC) DSE4T-Phil-S3 (ST) DSE4T-His-S4 (BG) DSE4T-Pol.Sc-S5 (BR)	DSE4T-His-S4 (BG) C115T-Phil-A6(A.G)
	VI (G)	GE2T-Beng-SH (TX) GE2T-Eng-G5 (XXX) GE2T-San-G4 (Ex) GE2T-Phil-G3 (S.T) GE2T-His-G1 (UC) GE2T-Pol.Sc-G7 (XXX) GE2T-Edu-G6 (SMA)	DSE1BT/2AT-His-A5 (XXX)	DSE1BT/2AT-Pol.Sc-TR (XXX)	DSE1BT/2AT-Phy.Edu-A5 (AN) DSE1BT/2AT-San-A6 (RM)	DSE1BT/2AT-Phil-S5 (S.T)	GE2T-Phy.Edu-A3 (A.N) DSE1BT/2AT-Pol.Sc-S1 (XXX) DSE1BT/2AT-Beng-A4 (TX)	SEC2T-Beng-LRR (AC) SEC2T-Eng-G5 (MM) SEC2T-San-S4 (AB) SEC2T-Phil-S3 (BM) SEC2T-His-S1 (MN) SEC2T-Pol.Sc-S2 (XXX) SEC2T-Phy.Edu-A1 (A.N)
Tuesday	II (H)	C3T-Sans-F1-(RM) GE2T	C4T-Beng-LRR-(GJ)	C3T-Beng-SH (DS) C3T-Eng-G7 (PPM) C3T-San-G5 (TJ) C3T-Phil-S2 (BM) C3T-His-G4 (BG)	GE2T-Beng-G3 (NB) GE2T-Eng-G7 (MM) GE2T-San-G5 (US) GE2T-Phil-S1 (BM) GE2T-His-G4 (MKN) GE2T-Pol.Sc-S6 (PS) GE2T-Edu-A8 (I.A)	C4T-Beng-SH (AC) C4T-Eng-G7 (MM) C4T-San-G5 (TR) C4T-Phil-S4 (ST) C4T-His-S5 (MKN) C4T-Pol.Sc-S3 (BR)	AECC3T Elective ENG-SH (MB)	
	II (G)	DSC1BT/2BT-His-G7 (EX) DSC1BT/2BT-Phil-S6(T.A) DSC1BT/2BT-Edu-S.H(I.A)	DSC1AP/2AP-Phy.Edu-Field (PKM) DSC1BT/2BT-Edu-LRR(M.A)	DSC1BT/2BT-San-S3 (US) DSC1AP/2AP-Phy.Edu-Field (AN)	DSC1BT/2BT-Beng-G1 (GJ) DSC1BT/2BT-Pol.Sc-A7 (SS)	DSC1BT/2BT-Edu-A6 (M.A) DSC1BT/2BT-Eng-A5 (PPM)	AECC3T Elective BENG- G6 (NB)	AECC3T Core (ENG-I)-SH (MB)
	IVI (H))	C9T-BENG-F3 (AC) C10T-S4(PPM)	C9T-Beng-SH (AC) C9T-Eng-G6 (SDR) C9T-San-G1 (TJ) C9T-Phil-S4 (BM) C9T-His-S5 (MKN) C9T-Pol.Sc-S6 (SS)	C10T-Beng-LRR (GJ) C10T-Eng-G3 (SDR) C10T-San-G6 (AB) C10T-Phil-F5 (XXX) C10T-His-S5 (NS) C10T-Pol.Sc-S6 (PS)	C10T-Beng-SH (SCP) C8T-Eng-S2 (SDR) C8T-San-S3 (RM) C8T-Phil-S4 (S.T) C9T-His-S5 (NS) C8T-Pol.Sc-F5 (RD)	GE4T-Beng-S2 (SCP) GE4T-Eng-A8 (XXX) GE4T-San-G1 (AB) GE4T-Phil-G3 (XXX) GE4T-His-G4 (NS) GE4T-Pol.Sc-S6 (PS) GE4T-Edu-G6 (I.A)		
	IVI (G)	DSC1DT/2DT-Phil-S2(S.T)	AECC3T Core (ENG-II)-A2 (MB)	DSC1CP/2CP-Phy.Edu-Field (PKM)	DSC1DT/2DT-San-A3 (KS) DSC1CP/2CP-Phy.Edu-Field (PKM)	DSC1DT/2DT-Beng-S2 (TXX) DSC1DT/2DT-Pol.Sc-S7 (RD)	SEC2T-His-S1 (UC) DSC1DT/2DT-Eng-G3 (XX)	SEC2T-Beng-LRR (GJ) SEC2T-Eng-G5 (XX) SEC2T-San-S4 (TJ) SEC2T-Phil-S3 (S.T) SEC2T-His-S1 (UC) SEC2T-Pol.Sc-S2 (SS) SEC2T-Edu-G7 (M.A) SEC1P-Phy.Edu-Field (AN)
	VI (H))		C13T-Beng-LRR (TXX) C13T-Eng-G7 (MM) C13T-San-G5 (AC) C13T-Phil-S1 (XXX) C13T-His-G4 (BG) C13T-Pol.Sc-S3 (RD)	C14T-Beng-G6 (TXX) C13T-Eng-G1 (MM) C14T-San-A1 (KS) C14T-Phil-A2 (ST) C14T-His-A3 (UC) C14T-Pol.Sc-S7 (BR)	DSE4T-Eng-LRR (PPM) DSE4T-San-A1 (EX) DSE4T-Phil-A2 (T.A) DSE4T-His-A3 (BG) DSE4T-Pol.Sc-A4 (BR)	DSE3T-Beng-F5 (DS) C14T-Eng-S3 (MB) DSE3T-San-A1 (TJ) DSE3T-Phil-A2 (BM) DSE3T-His-A3 (UC) DSE3T-Pol.Sc-A4 (SS)	C13T-SH-GJ	DSE3T-S6 (SDR) DSE3T-San-A3 (RM)
	VI (G)	GE2T-Beng-LRR (TXX) GE2T-Eng-G5 (XXX) GE2T-San-G4 (RM) GE2T-Phil-G3 (XXX) GE2T-His-G1 (MN) GE2T-Pol.Sc-A1 (R.D) GE2T-Edu-A2 (M.A) GE2T-Phy.Edu-A3 (AN)	DSE1BT/2AT-Phy.Edu-G3 (AN) DSE1BT/2AT-San-A5 (RM)	DSE1BT/2AT-Pol.Sc-TR (XXX) GE2T-Edu-A2-(I.A)	DSE1BT/2AT-San-A5 (EX) DSE1BT/2AT-Phy.Edu-TR (AN)	DSE1BT/2AT-Eng-F. Annex (XXX)	C11-HIST-G4 (BG) DSE1BT/2AT-Beng-XX (XX)	SEC2TG-Beng-G7 (AC) SEC2T-Eng-G5 (XXX) SEC2T-San-G4 (AC) SEC2T-Phil-G3 (BM) SEC2T-His-G6 (NS) SEC2T-Pol.Sc-S4 (B.R) SEC2T-Edu-A2 (I.A) SEC2T-Phy.Edu-A1 (PKM)
Wednesday	II (H)	C3T-Phil-F4(T.A)		C4T-Beng-SH (GJ) C4T-Eng-S3 (MM) C4T-San-S2 (TR) C4T-Phil-A3 (S.T) C4T-His-S4 (EX) C4T-Pol.Sc-S5 (SS)	GE2T-Beng-SH (DS) GE2T-Eng-S1 (XX) GE2T-San-G5 (KS) GE2T-Phil-A1 (TA) GE2T-His-G4 (BPJ) GE2T-Pol.Sc-Geo. Annex (PS) GE2T-Edu-S6 (I.A)	C3T-Beng-SH (TXX) C4T-Eng-G1 (SDR) C3T-His-S4 (BG) C3T-Pol.Sc-S5 (RD)		C3T-San-A3 (RM) C2-HIST-S4(NS)
	II (G)	DSC1BT/2BT-Edu-A4 (I.A) DSC1BT/2BT-Eng-G7 (MM)	DSC1AP/2AP-Phy.Edu-Field (AN) DSC1BT/2BT-San-S1 (RM)	DSC1AP/2AP-Phy.Edu-Field (A.N)	DSC1BT/2BT-Phil-A5 (XXX)	AECC3T Core (ENG-I)-LRR (XX)	DSC1BT/2BT-His-G7 (EX)	DSC1BT/2BT-Pol.Sc-A1 (RD) DSC1BT/2BT-Beng-G7 (MA)
	IVI (H))	C8T-San-G4 (US)	C8T-Beng-SH (MA) C8T-Eng-G5 (SK) C9T-San-G4 (TJ) C8T-Phil-S3 (XX) C8T-His-G1 (BPJ) C8T-Pol.Sc-S2 (RD)	C9T-Beng-G6 (DS) C10T-Eng-G5 (PPM) C9T-Phil-S6 (T.A) C9T-His-G1 (BG) C9T-Pol.Sc-S7 (PS)	C10T-Beng-LRR (SCP) C9T-Eng-S2 (MM) C10T-San-S3 (TR) C10T-Phil-F5 (XXX) C10T-His-S4 (NS) C10T-Pol.Sc-S5 (SS)	GE4T-Beng-G4 (SCP) GE4T-Eng-F5 (XXX) GE4T-San-G6 (TJ) GE4T-Phil-G7 (BM) GE4T-His-S2 (BPJ) GE4T-Pol.Sc-S6 (PS)	C9T-Beng-G6 (GJ) C9T-Eng-G5 (MM) C10T-San-G4 (AC) C10T-His-G1 (NS) C10T-Pol.Sc-G7 (PS)	C10T-Phil-A6(S.T)
	IVI (G)	DSC1DT/2DT-Eng-A5 (SK)	DSC1DT/2DT-Edu-LRR (IA)	AECC3T Core (ENG-II)-LRR (SK)	DSC1CP/2CP-Phy.Edu-Field (AN) DSC1DT/2DT-San-G6 (US)	DSC1CP/2CP-Phy.Edu-Field (A.N)	DSC1DT/2DT-Pol.Sc-S2 (SS) DSC1DT/2DT-Beng-S1 (MA)	DSC1DT/2DT-Phil-S1 (S.T) DSC1DT/2DT-His-S2 (BG)DS1C-S6 (PPM)
	VI (H))	GE1-HIST-G1(BPJ) C11-HIST-G3(NS) DSE4TH-BENG G6 -GJ	C14T-Beng-G6 (DS) C13T-Eng-LRR (SDR) C14T-San-G7 (KS) C14T-Phil-A2 (XXX) C14T-His-G3 (EX) C14T-Pol.Sc-A7 (SS)	C13T-Beng-LRR (TXX) DSET-Eng-G3 (SDR) C13T-San-A1 (AC) C13T-Phil-A2 (BM) C13T-His-F5 (BPJ) C13T-Pol.Sc-A4 (RD)	DSE3T-Beng-G3 (GJ) C14T-Eng-G7 (PPM) DSE3T-San-A1 (RM) DSE3T-Phil-A2 (BM) DSE3T-His-A3 (BG) DSE3T-Pol.Sc-A4 (XXX)	C14T-Beng-S6 (TXX) C14T-Eng-G5 (PPM) C14T-San-S3 (US) C14T-Phil-S7 (S.T) C14T-His-S5 (NS) C14T-Pol.Sc-S1 (SS)		
	VI (G)	GE2T-Beng-SH (TXX) GE2T-Eng-G5 (XXX) GE2T-San-G4 (TR) GE2T-Phil-G3 (S.T) GE2T-His-G1 (BS) GE2T-Pol.Sc-S2 (S.S) GE2T-Phy.Edu-A7 (AN)	DSE1BT/2AT-Phil-A4 (S.T) DSE1BT/2AT-His-S4 (BG)	DSE1BT/2AT-Eng-A5 (XXX)	DSE1BT/2AT-His-A6 (EX)	DSE1BT/2AT-Pol.Sc-TR (S.S) DSE1BT/2AT-Beng-A5 (TXX) DSE1BT/2AT-Edu-S4 (I.A)	DSE1BT/2AT-Phy.Edu-A2 (AN) DSE1BT/2AT-San-A3 (TJ)	GE2T-Beng-SH (TXX) GE2T-Eng-G5 (XXX) GE2T-San-G4 (TJ) GE2T-Phil-G3 (T.A) GE2T-His-G1 (EX) GE2T-Pol.Sc-S2 (R.D) GE2T-Phy.Edu-G7 (AN)
Thursday	II (H)	C1-HIST-G3(BS)	C4T-Beng-SH (MA) C3T-Eng-G5 (SDR) C4T-San-S2 (US) C4T-Phil-S3 (A.G) C4T-His-S4 (MKN) C4T-Pol.Sc-S5 (PS)	C3T-Beng-SH (DS) C3T-San-G3 (RM) C3T-Phil-S3 (TA) C3T-His-S4 (EX) C3T-Pol.Sc-S5 (SS)	GE2T-Beng-SH (DS) GE2T-Eng-S1 (XX) GE2T-San-S2 (TR) GE2T-Phil-S3 (XXX) GE2T-His-S4 (MKN) GE2T-Pol.Sc-S5 (PS) GE2T-Edu-G7 (I.A)	AECC3T Elective ENG-SH (SK)		C4T-ENG-S6 (SK)
	II (G)	DSC1BT/2BT-Pol.Sc-S3 (B.R) DSC1BT/2BT-Beng-G6 (TXXX)	DSC1BT/2BT-San-A8 (TR) DSC1BT/2BT-Phy.Edu-A5 (P.K.M)	DSC1BT/2BT-Phil-A5 (XXX)	DSC1BT/2BT-His-A6 (BG)	AECC3T Elective BENG-S5 (MA)	AECC3T Core (ENG-I)-SH (XX)	DSC1BT/2BT-Edu-G7 (I.A) DSC1BT/2BT-Eng-G6 (MM)
	IVI (H))	C9T-San-F1 (US)	C9T-Beng-G6 (TXX) C8T-Eng-A6 (SK) C9T-Phil-G3 (S.T) C9T-His-G1 (BS) C9T-Pol.Sc-S6 (BR)	C10T-Beng-G6 (NB) C8T-Eng-G5 (SDR) C10T-San-G4 (TR) C10T-Phil-S2 (A.G) C10T-His-G1 (MKN)	C8T-Beng-G6 (DR) C10T-Eng-G5 (PPM) C8T-San-G4 (US) C8T-Phil-S7 (TA) C8T-His-G1 (BS) C8T-Pol.Sc-S6 (SS)	GE4T-Beng-G6 (TXX) GE4T-Eng-G5 (XXX) GE4T-San-G4 (US) GE4T-Phil-G3 (A.G) GE4T-His-A3 (BPJ) GE4T-Pol.Sc-A4 (PS) GE4T-Edu-G7 (I.A)	SEC2T-Beng-G6 (NB) SEC2T-Eng-SH (SK) SEC2T-San-G4 (AC) SEC2T-Phil-G3 (A.G) SEC2T-His-G1 (MKN) SEC2T-Pol.Sc-S6 (SS)	C9T-Pol.Sc-S1(P.S)
	IVI (G)	DSC1DT/2DT-Pol.Sc-S1 (SS) DSC1DT/2DT-Beng-LRR (TXX)	AECC3T Core (ENG-II)-S1 (XX)	SEC1P-Phy.Edu-Field (PKM)	SEC1P-Phy.Edu-Field (PKM)	DSC1DT/2DT-Eng-S2 (MM)	DSC1DT/2DT-San-A1 (TR) DSC1DT/2DT-Phy.Edu-A2 (P.K.M) DSC1DT/2DT-Edu-S3(I.A)	DSC1DT/2DT-Phil-A1 (ST) DSC1DT/2DT-His-A2 (BS) SEC2T-ENG-G5-(SK)
	VI (H))		C13T-Beng-SH (AC) C13T-Eng-LRR (PPM) C13T-San-A1 (TJ) C13T-Phil-A2 (TA) C13T-His-A3 (BPJ) C13T-Pol.Sc-A4 (SS)	DSE3T-Beng-LRR (TXX) DSE4T-Eng-S3 (PPM) DSE3T-San-A1 (TJ) DSE3T-Phil-A2 (XXX) DSE3T-His-A3 (BG) DSE3T-Pol.Sc-A4 (BR)	DSE4T-Beng-LRR (TXX) C13T-Eng-S3 (SDR) DSE4T-San-A1 (AB) DSE4T-Phil-A2 (ST) DSE4T-His-A3 (BPJ) DSE4T-Pol.Sc-A7(BR)	C12-HIST-S5-MN		C14T - BENG- F3 (DR)
	VI (G)	GE2T-Beng-SH (DS) GE2T-Eng-G5 (XXX) GE2T-San-G4 (RM) GE2T-Phil-G3 (TA) GE2T-His-G1 (EX) GE2T-Pol.Sc-G7 (XXX) GE2T-Edu-A1 (I.A) GE2T-Phy.Edu-A2 (P.K.M)	DSE1BT/2AT-Beng-G7 (DR)	DSE1BT/2AT-Pol.Sc-A6 (SS)	DSE1BT/2AT-His-G6 (XXX)	DSE1BT/2AT-Phy.Edu-S4 (PKM) DSE1BT/2AT-Eng-A2 (XXX)	DSE1B-HIST-A6-(BPJ) DSE1BT/2AT-San-S2 (RM)	DSE1BT/2AT-Phil-S4 (A.G)
Friday	II (H)	C3T-San-F1 (AC) DSC1A-HIST-G7(UC)	C4T-Beng-SH (TXX) C4T-Eng-S5 (PPM) C4T-San-S2 (TR) C4T-Phil-S3 (ST) C4T-His-S4 (UC) C4T-Pol.Sc-S5 (BR)	C3T-Beng-SH (SCP) C3T-Eng-S1 (TG) C3T-His-S4 (BG) C3T-Pol.Sc-S5 (RD)	GE2T-Beng-SH (DR) GE2T-Eng-S1 (XX) GE2T-San-G5 (AB) GE2T-Phil-S3 (BM) GE2T-His-G1 (MKN) GE2T-Pol.Sc-S5 (XXX) GE2T-Edu-G7 (M.A)			C3T-Phil-A6(T.A)C3T-ENG-S6 (MM)
	II (G)	DSC1BT/2BT-His-G7 (NS) DSC1BT/2BT-Phil-S1 (XXX)	DSC1BT/2BT-Beng-SH_(SP)	DSC1BT/2BT-Pol.Sc-TR (XXX)	DSC1BT/2BT-Phy.Edu-TR (PKM) DSC1BT/2BT-San-G3 (TR)	DSC1BT/2BT-Phil-A5 (TA)	DSC1BT/2BT-Eng-A2 (XX) DSC1BT/2BT-Edu-A3 (M.A)	AECC3T Core (ENG-I)-SH (PPM)
	IVI (H))	C8T_G6 (SP) C9T-His-G1 (MKN)	C10T-Beng-G6 (NB) C8T-Eng-G5 (SDR) C10T-San-G4 (AB) C10T-Phil-G3 (XXX) C10T-His-G1 (MKN)	C9T-Beng-G6 (TXX) C10T-Eng-G5 (PPM) C9T-San-G4 (TJ) C9T-Phil-G3 (ST) C9T-His-G1 (EX) C9T-Pol.Sc-S6 (BR)	C8T-Beng-G6 (TXX) C8T-Eng-S2 (SDR) C8T-San-A8 (EX) C8T-Phil-F5 (T.A) C8T-His-S4 (UC) C8T-Pol.Sc-Geo. Annex (RD)	GE4T-Beng-G6 (MA) GE4T-Eng-G5 (XXX) GE4T-San-G4 (AC) GE4T-Phil-G3 (B.M) GE4T-His-G1 (BS) GE4T-Pol.Sc-S6 (SS) GE4T-Edu-G7 (SMA)	C8T-BENG-G6 (DR)	Pol.Sc-A2(SS)
	IVI (G)	DSC1DT/2DT-His-G5 (BS) DSC1DT/2DT-Phil-G3 (BM)	DSC1DT/2DT-Pol.Sc-TR (XXX)	DSC1DT/2DT-Beng-LRR (SP)	DSC1DT/2DT-Phy.Edu-A5 (AN) DSC1DT/2DT-San-A6 (AC)	SEC 1CT/2CT-Phy.Edu-A5 (P.K.M) DSC1DT/2DT-Eng-S1 (PPM)	SEC CT/2CT-Phy.Edu-A5 (A.N) AECC3T Core (ENG-II)-SH (XX)	
	VI (H))	C14T -BENG-F3(DR)	DSE3T-Beng-G7 (DR) DSE3T-Eng-LRR (SDR) DSE3T-San-A1 (TJ) DSE3T-Phil-A2 (B.M) DSE3T-His-A3 (BS) DSE3T-Pol.Sc-A4 (XXX)	C13T-Beng-G7 (NB) DSE3T-Eng-LRR (XX) DSE4T-San-A1 (AB) C13T-Phil-A2 (BM) C14T-His-A3 (UC) C13T-Pol.Sc-A4 (SS)	DSE4T-Beng-LRR (DS) DSE4T-Eng-S6 (PPM) C13T-San-A1 (EX) DSE4T-Phil-A2 (XX) DSE4T-His-A3 (BG) DSE4T-Pol.Sc-A4 (SS)	C14T-Beng-SH (TXX) C14T-Eng-LRR (PPM) C14T-San-A1 (KS) C14T-Phil-A2 (ST) C14T-His-F5 (MKN) C14T-Pol.Sc-A4 (RD)		
	VI (G)	GE2T-Beng-G6 (MA) GE2T-Eng-A7 (XXX) GE2T-San-G4 (KS) GE2T-Phil-A5 (S.T) GE2T-His-G1 (EX) GE2T-Pol.Sc-A6 (R.D) GE2T-Edu-G6 (M.A) GE2T-Phy.Edu-A8 (AN)	DSE1BT/2AT-His-A8 (BG)	DSE1BT/2AT-Phil-A6 (XXX) GE2TG-BENG-A5-(DR)	DSE1BT/2AT-Phy.Edu.-PE Lab (A.N.& P.K.M) DSE1BT/2AT-San-G4 (TJ)	DSE1BT/2AT-Eng-S3 (MM)	DSE1B-HIST-G3(BS) DSE1BT/2AT-Beng-LRR (SP) DSE1BT/2AT-Pol.Sc-S2 (XXX)	SEC-1F (A.N) DSE1B-HIST-G3(BS) DSE1BT/2AT-Phil-G1 (XXX)
Saturday	II (H)	C3T-San-F1 (AB)	C3T-Beng-F3 (DR) C3T-Eng-S5 (SK) C4T-San-S2 (TR) C4T-Phil-S3 (AG) C4T-His-S4 (MKN) C4T-Pol.Sc-S5 (BR)	C3T-Beng-SH (SP) C3T-Eng-S2 (PPM) C3T-Phil-S3 (B.M) C3T-His-S4 (BS) C3T-Pol.Sc-S7 (SS)	GE2T-Beng-G1 (DR) GE2T-Eng-S1 (MB) GE2T-San-G3 (TR) GE2T-Phil-S3 (TA) GE2T-His-S4 (MKN) GE2T-Pol.Sc-Com Lab (PS)	GE2T-Edu-G7 (IA)		
	II (G)	AECC3T Core (ENG-I)-SH (SK)	DSC1BT/2BT-His-G7 (NS)	DSC1BT/2BT-Eng-A5 (XX) DSC1BT/2BT Edu-S5 (M.A)	DSC1BT/2BT-Beng-A5 TXX DSC1AT-ENG-S5(MM)	FIELD-Phy.Edu (A.N) DSC1BT/2BT-Pol.Sc-S1 (PS)	FIELD-Phy.Edu-A5 (A.N	
	IVI (H))		C8T-Beng-G6 (SP) C9T-Eng-G5 (MM) C8T-San-G4 (TJ) C8T-Phil-G3 (XXX) C8T-His-G1 (BS) C8T-Pol.Sc-S6 (SS)	C9T-Beng-G6 (DS) C9T-Eng-G5 (MB) C9T-San-G4 (TJ) C9T-Phil-G3 (T.A) C9T-His-G1 (MN) C9T-Pol.Sc-S6 (BR)	GE4T-Beng-F3 (SCP) GE4T-Eng-G5 (PPM) GE4T-San-A1 (AC) GE4T-Phil-S2 (XXX) GE4T-His-G4 (BPJ) GE4T-Pol.Sc-A4 (BR)			
	IVI (G)	AECC3T Core (ENG-II)-LRR (XX)	DSC1DT/2DT-His-A8 (EX) SEC2T-Edu-S.H(I.A)	DSC1DT/2DT-Edu-A8 (I.A) DSC1DT/2DT-Eng-A6 (XX)	FIELD-Phy. (A.N) DSC1DT/2DT-Phil-A6 (XXX)	FIELD-Phy.Edu(A.N) DSC1DT/2DT-Beng-F3 (TXX) DSC1DT/2DT-Pol.Sc-S2 (RD)		
	VI (H))	C13T-San-F1 (TJ) DSE1-HIST-A3(BS) DSE4T-G5 (MM) DSE4TH-BENG- F3 (NB) DSE4T-Pol.Sc-S1(SS) C14T-Phil-F4(A.G)	C13T-Beng-F4 (NB) C14T-Eng-LRR (PPM) C13T-Phil-A2 (B.M) C13T-His-A3 (EX)	C14T-Beng-G7 (SCP) C13T-Eng-A1 (MM) C14T-San-F2 (AB) C13T-His-A3 (BPJ) C14T-Pol.Sc-A4 (RD)	DSE3T-Beng-F4 (TXX) DSE3T-Eng-LRR (SK) DSE4T-San-F5 (AB) DSE3T-Phil-S7 (B.M) DSE3T-His-A3 (EX)	DSE4T-Beng-F4 (DR) DSE3T-Eng-SH (XX) DSE3T-San-F1 (TR) DSE4T-Phil-S2 (TA) DSE4T-His-G6 (BPJ) DSE4T-Pol.Sc-S3 (BR) C13T-Pol.Sc-A4(R.D)		
	VI (G)	DSE1B-G7 (MB) DSE1B-Edu-S4 (M.A)	FIELD-Phy.Edu(A.N) DSE1BT/2AT-His-A6 (BPJ)	FIELD-Phy.Edu(A.N) DSE1BT/2AT-Eng-A7 (XXX) DSE3TG-BENG-F4(DR)	DSE1BT/2AT-Phil-A7 (A.G) DSE1BT/2AT-Edu-LRR (I.A) GE2T-Edu-G6 (M.A)	DSE1BT/2AT-Beng-G7 (SP) SEC2T-Edu-G7(M.A) SEC2T-ENG -SH (SH)		

Attested

30/04/24

Principal
Narajole Raj College
Narajole, Pin-721 211

Narajole Raj College

MASTER ROUTINE :: SESSION:2022-23 :: SEMESTER - ODD (SCIENCE)

Day	Semester	10.00-11.00	11.00-12.00	12.00-01.00	01.00-02.00	02.00-03.00	03.00-04.00	Day
Monday	I (H)		C1T (Phys)-Gen Lab C1T (Chem)-Org L C1T (Bot)-L1 C1T (Zoo)-L1 C1T (Math)-Dept C1T (Geo)-A7	C2T (Phys)-Gen Lab C2T (Chem)-Org L C2T (Bot)-L1 C2T (Zoo)-L1 C2T (Math)-Dept C2T (Geo)-A7	GE1T (Phys)-Gen Lab GE1T (Bot)-L1 GE1T (Zoo)-L1 GE1T (Math)-Comp. Lab GE1T (Geo)-Lab GE1T (Physio)-Lab	C1P (Phys)-Com. Lab C1P (Chem)-Org L C1P (Bot)-L1 C1P (Zoo)-L1 C1T (Geo)-Lab	C1P (Phys)-Com Lab C1P(Chem)-Org L C1P (Bot)-L1 C1P (Zoo)-L1	Monday
	I (G)	DSC-1/2/3AT-Chem- Org Lab	DSC-1/2/3AT-Chem-TR	DSC-1/2/3A-Zoo-Tech. Room	DSC-1/2/3AT-Physio-Lab1 DSC-1/2/3AT-Geo-TR	DSC-1/2/3AP-Phys-Lab DSC-1/2/3AP-Bot-Lab	DSC-1/2/3AP-Phys-Lab DSC-1/2/3AP-Bot-Lab	
	III (H)	C5P (Phys)-Com Lab C5P (Chem)-Phyc L C5P (Bot)-L1 C5P (Zoo)-L1	C5P (Phys)-Com Lab C5P (Chem)-Phyc Lab C5P (Bot)-L2 C5P (Zoo)-L2 C5T (Math)-TR C5T (Geo)-A8	C5T (Phys)-Dept. Annex C5T (Chem)-Com Lab C5T (Bot)-L2 C5T (Zoo)-L2 C5T (Math)-TR C5T (Geo)-SH Annex	C6T (Phys)-Dept. Annex C6T (Chem)-Org L C6T (Bot)-L2 C6T (Zoo)-L2 C6T (Math)-Dept C6T (Geo)-F5	C7T (Phys)-Dept. Annex C7T (Chem)-Iorg L C7T (Bot)-L2 C7T (Zoo)-L2 C7T (Math)-Dept C7T (Geo)-A7	GE3P (Phys)-Electri. Lab GE3P (Bot)-L2 GE3P (Zoo)-L2 GE3P (Chem)-Iorg L GE3T (Geo)-S6 GE3P (Physio)-Lab	
	III (G)	DSC-1/2/3CT-Phys-Elec. Lab DSC-1/2/3CT-Bot-L3	DSC-1/2/3CT-Chem-Geo Annex	DSC-1/2/3CT-Math-Geo Annex DSC-1/2/3CT-Zoo-Annex Lab	DSC-1/2/3CT-Physio-Lab2 DSC-1/2/3CT-Geo-Geo Annex-	DSC-1/2/3CP-Physio-Lab2 DSC-1/2/3CP-Geo-Lab	DSC-1/2/3CP-Physio-Lab2 DSC-1/2/3CP-Geo-Lab	
	V (H)		DSE1T (Phys)-Electri. Lab DSE1P(Chem)-Iorg Lab DSE1P (Bot)-L3 DSE1P (Zoo)-CL1 DSE1T (Math)-F5 DSE1P (Geo)-Lab	DSE2T (Phys)-Electri. Lab DSE1P(Chem)-Iorg Lab DSE1P (Bot)-L3 DSE1P (Zoo)-CL1 DSE2T (Math)-G6 DSE1P (Geo)-Lab	C12T (Phys)-Electri. Lab C12T (Chem)-Iorg L C12T (Bot)-L3 C12T (Zoo)-CL1 C12T (Math)-F. Annex C12T (Geo)-A7	DSE1T (Phys)-Electric. Lab DSE1T(Chem)-F5 DSE1T (Bot)-L3 DSE1T (Zoo)-CL1 DSE1T (Math)-A2 DSE1T (Geo)-SH. Annex	C11P (Phys)-Com. Lab C11P(Chem)-Iorg. lab C11P (Bot)-L3 C11P (Zoo)-CL1 C11T (Math)-Dept C11P (Geo)-Lab	
	V (G)	DSE-1/2/3AT-Phys-Elecn. Lab DSE-1/2/3AT-Bot-A4	DSE-1/2/3AT-Chem- Physics Annex	DSE-1/2/3AT-Zoo-Physio. L	DSE-1/2/3AT-Physio DSE-1/2/3AT-Geo-A8	DSE-1/2/3AP-Physio-Lab DSE-1/2/3AP-Geo-lab	DSE-1/2/3AP-Physio-Lab DSE-1/2/3AP-Geo-Lab	
Tuesday	I (H)		C2T(Phys)-Gen Lab C2T(Chem)-Org L C2T(Bot)-L1 C2T(Zoo)-L1 C2T(Math)-Dept C2T(Geo)-Lab	C1T (Phys)-Gen Lab C1T (Chem)-Org L C1T (Bot)-L1 C1T (Zoo)-L1 C1T (Math)-Dept C1T (Geo)-Lab	GE1P (Phys)-Electron. Lab GE1P(Bot)-L1 GE1P (Zoo)-L1 GE1T (Math)-Dept GE1T (Geo)-Lab GE1P (Physio)-Lab	GE1P (Phys)-Electron. Lab GE1P(Bot)-L1 GE1P (Zoo)-L1 GE1P (Physio)-Lab	AECC: ENG-Sem. Hall	Tuesday
	I (G)	DSC-1/2/3AT-Phys-Gen Lab DSC-1/2/3AT-Bot-L2	DSC-1/2/3AT-Phys-Elecn. Lab DSC-1/2/3AT-Bot-SH Annex	DSC-1/2/3AT-Math-TR DSC-1/2/3AT-Zoo-TR	DSC-1/2/3AP-Chem-Lab	DSC-1/2/3AP-Chem-Lab	AECC: ENG-Sem. Hall	
	III (H)		C5T (Phys)-Dept. Annex C5T (Chem)-Iorg L C5T (Bot)-L2 C5T (Zoo)-L2 C5T (Math)-F. Annex C5T (Geo)-A7	C6T (Phys)-Dept. Annex C6T (Chem)-Iorg L C6T (Bot)-L2 C6T (Zoo)-L2 C6T (Math)-F. Annex C6T (Geo)-A7	C7T (Phys)-Dept. Annex C7T (Chem)-Org L C7T (Bot)-L2 C7T (Zoo)-L2 C7T (Math)-F. Annex C7T (Geo)-A7	GE3T (Phys)-Gen. Lab GE3T (Bot)-L2 GE3T (Zoo)-L2 GE3T (Chem)-Org L GE3T (Geo)-A7 GE3T (Physio)-Lab	C6P (Phys)-Electric. Lab C6P (Chem)-Inorg L C6P (Bot)-L2 C6P (Zoo)-L2 C6P (Geo)-Lab	
	III (G)	DSC-1/2/3CT-Chem-ILab	DSC-1/2/3CT-Phys-Opt. Lab DSC-1/2/3CT-Bot-A4	DSC-1/2/3CT-Math-Geo Annex DSC-1/2/3CT-Zoo-Annex Lab	DSC-1/2/3CP-Chem Lab	DSC-1/2/3CP-Chem- Lab	DSC-1/2/3CT-Physio-Lab1 DSC-1/2/3CT-Geo-Lab1	
	V (H)		C11T (Phys)-Electric. Lab C11T (Chem)-Com. Lab C11T (Bot)-L3 C11T (Zoo)-CL1 C11T (Math)-F5 C11T (Geo)-S2	C12T (Phys)-Electric. Lab C12T (Chem)-Com. Lab C12T (Bot)-L3 C12T (Zoo)-CL1 C12T (Math)-S4 C12T (Geo)-A4	DSE2T (Phys)-Electric. Lab DSE2T(Chem)-Iorg L DSE2T (Bot)-L3 DSE2T (Zoo)-CL1 DSE2T (Math)-Comp. Lab DSE2T (Geo)-SH Annex	C12P (Phys)-Electric. Lab C12P (Chem)-Org L C12P (Bot)-L3 C12P(Zoo)-CL1 C12T (Math)-Dept C12P (Geo)-Lab	C12P (Phys)-Electric. Lab C12P (Chem)-Org L C12P (Bot)-L3 C12P(Zoo)-CL1 C12P (Geo)-Lab	
	V (G)	DSE-1/2/3AT-Chem-S2	DSE-1/2/3AT-Phys-Opt. Lab DSE-1/2/3AT-Bot-TR	DSE-1/2/3AT-Math-A8 DSE-1/2/3AT-Zoo-A6	DSE-1/2/3AP-Chem-Lab	DSE-1/2/3AP-Chem-Lab	DSE-1/2/3AP-Phys-Lab DSE-1/2/3AP-Bot-Lab	
Wednesday	I (H)		C1T (Phys)-Gen Lab C1T (Chem)-Org L C1T (Bot)-L1 C1T (Zoo)-L1 C1T (Math)-F5 C1T (Geo)-Lab	C2T (Phys)-Gen Lab C2T (Chem)-Org L C2T (Bot)-L1 C2T (Zoo)-L1 C2T (Math)-Dept C2T (Geo)-Lab	GE1T (Phys)-Gen Lab GE1T (Bot)-L1 GE1T (Zoo)-L1 GE1T (Math)-Dept GE1T (Geo)-A7 GE1T (Physio)-Lab	C2P (Phys)-Gen Lab C2P (Chem)-Phyc L C2P (Bot)-L1 C2P (Zoo)-L1 C2P (Geo)-Lab	C2P (Phys)-Gen Lab C2P (Chem)-Phyc L C2P (Bot)-L1 C2P (Zoo)-L1 C2P (Geo)-Lab	Wednesday
	I (G)	DSC-1/2/3AT-Math-Dept DSC-1/2/3AT-Zoo-L1	DSC-1/2/3AT-Physio-Lab1 DSC-1/2/3AT-Geo-Tech. Room-	DSC-1/2/3AT-Chem-TR	DSC-1/2/3AP-Physio-Lab1 DSC-1/2/3AP-Geo-Lab	DSC-1/2/3AP-Physio-Lab1 DSC-1/2/3AP-Geo-Lab		
	III (H)		C5T (Phys)-Dept. Annex C5T (Chem)-Iorg L C5T (Bot)-L2 C5T (Zoo)-L2 C5T (Math)-Dept C5T (Geo)-A7	C6T (Phys)-Dept. Annex C6T (Chem)-Iorg L C6T (Bot)-L2 C6T (Zoo)-L2 C6T (Math)-F. Annex C6T (Geo)-A7	C7T (Phys)-Dept. Annex C7T (Chem)-Iorg L C7T (Bot)-L2 C7T (Zoo)-L2 C7T (Math)-TR C7T (Geo)-A7	GE3T (Phys)-Electric. Lab GE3T (Bot)-L2 GE3T (Zoo)-L2 GE3T (Chem)-Iorg L GE3T (Geo)-A7 GE3T (Physio)-Lab	C7P (Phys)-Electron. Lab C7P(Chem)-Org L C7P (Bot)-L2 C7P (Zoo)-L2 C7P (Math)-Com Lab	
	III (G)	DSC-1/2/3CT-Math-F. Annex DSC-1/2/3CT-Zoo-L2	DSC-1/2/3CT-Physio-Lab2 DSC1/2/3CT-Geo-Geo Annex-	DSC-1/2/3CT-Phys-Electron. lab DSC-1/2/3CT-Bot-Geo Annex	DSC-1/2/3CT-Chem-Tech Room	DSC-1/2/3CP-Phys-lab DSC-1/2/3CP-Bot-Lab	DSC-1/2/3CP-Phys-Lab DSC-1/2/3CP-Bot lab	
	V (H)	DSE2P(Chem)-Org L DSE2P (Bot)-L3 DSE2P (Zoo)-L3 DSE2T(Geo)-Lab	DSE2P(Chem)-Org. Lab DSE2P (Bot)-L3 DSE2P (Zoo)-L3 DSE2T (Geo)-F. Annex	C11T (Phys)-Electric. Lab C11T (Chem)-Com. Lab C11T (Bot)-L3 C11T (Zoo)-L3 C11T (Math)-S1 C11T (Geo)-A8	DSE1T (Phys)-Electric. Lab DSE1T(Chem)-Org L DSE1T (Bot)-L3 DSE1T (Zoo)-L3 DSE1T (Math)-F Annex DSE1T (Geo)-Comp. Lab	DSE2T (Phys)-Dept. Annex DSE2T(Chem)-Org Lab DSE2T (Bot)-L3 DSE2T (Zoo)-L3 DSE2T (Math)-Dept DSE2T (Geo)-F. Annex	C11P (Phys)-Com. Lab C11P(Chem)-Iorg L C11P (Bot)-L3 C11P (Zoo)-L3 C11T (Math)-Dept C11P (Geo)-Lab	
	V (G)	DSE-1/2/3AT-Math-	DSE-1/2/3AT-Physio-Comp Lab DSE-1/2/3AT-Geo-Lab-	DSE-1/2/3AT-Chem-Teac. R	DSE-1/2/3AT-Chem-Phyc Lab	DSE-1/2/3AT-Math-TR DSE-1/2/3AT-Zoo-CL1	DSE-1/2/3AT-Physio-Lab2 DSE-1/2/3AT-Geo-A7	
Thursday	I (H)		C2P (Phys)-Gen Lab C2P (Chem)-Phyc Lab C2P (Bot)-L1 C2P (Zoo)-L1 C2P (Geo)-Lab C2T (Math)-Dept	C2P (Phys)-Gen Lab C2P (Chem)-Phyc Lab C2P (Bot)-L1 C2P (Zoo)-L1 C2P (Geo)-Lab C1T (Math)-Dept	GE1T (Phys)-Gen Lab GE1T (Bot)-L1 GE1T (Zoo)-L1 GE1T (Math)-Dept GE1T (Geo)-A8 GE1T (Physio)-Lab	AECC: ENG-Sem. Hall		Thursday
	I (G)	DSC-1/2/3AP-Chem-Lab	DSC-1/2/3AP-Chem-Lab	DSC-1/2/3AT-Math-Geo Annex DSC-1/2/3AT-Zoo-Annex lab	DSC-1/2/3AT-Chem-TR-	AECC: ENG-Sem. Hall	DSC-1/2/3AT-Phys-Lab DSC-1/2/3AT-Bot-Lab	
	III (H)		C5P (Phys)-Com. Lab C5P (Chem)-Phy L C5P (Bot)-L2 C5P (Zoo)-L2 C6T (Math)-Dept	C5P (Phys)-Com. Lab C5P (Chem)-Phy Lab C5P (Bot)-L2 C5P (Zoo)-L2 C5T (Math)-F. Anx C5T (Geo)-A7	C6T (Phys)-Dept. Annex C6T (Chem)-Iorg L C6T (Bot)-L2 C6T (Zoo)-L2 C6T (Math)-F. Anx C6T (Geo)-A7	C7T (Phys)-Dept. Annex C7T (Chem)-Iorg L C7T (Bot)-L2 C7T (Zoo)-L2 C7T (Math)-Dept C7T (Geo)-Lab	GE3P (Phys)-Electric. Lab GE3P (Bot)-L2 GE3P (Zoo)-L2 GE3P (Chem)-Iorg L GE3T (Geo)-F. Anx GE3P (Physio)-Lab	
	III (G)	DSC-1/2/3CP-Chem-lab	DSC-1/2/3CP-Chem-Lab	DSC-1/2/3CT-Math-TR DSC-1/2/3CT-Zoo-TR	DSC-1/2/3CT-Physio-Lab DSC-1/2/3CT-Geo-Lab-	DSC-1/2/3CT-Phys-Lab DSC-1/2/3CT-Bot-Geo. Annex	DSC-1/2/3CT-Chem-Org L	
	V (H)		C11T (Phys)-Electric. Lab C11T (Chem)-Org Lab C11T (Bot)-L3 C11T (Zoo)-CL1 C11T (Math)-F. Anx C11T (Geo)-SH Anx	C12T (Phys)-Electric. Lab C12T (Chem)-Physical Lab C12T (Bot)-L3 C12T (Zoo)-CL1 C12T (Math)-G7 C12T (Geo)-SH Anx	DSE1T (Phys)-Electric. Lab DSE1T(Chem)-Org L DSE1T (Bot)-L3 DSE1T (Zoo)-CL1 DSE1T (Math)-Com lab DSE1T (Geo)-A4	DSE2T (Phys)-Electric. Lab DSE2T(Chem)-Org L DSE2T (Bot)-L3 DSE2T (Zoo)-CL1 DSE2T (Math)-F Anx DSE2T (Geo)-A7	C12P (Phys)-Electric. Lab C12P (Chem)-Org L C12P (Bot)-L3 C12P(Zoo)-CL1 C12T (Math)-Dept C12P (Geo)-Lab	
	V (G)	DSE-1/2/3AP-Chem-Lab	DSE-1/2/3AP-Chem-Lab	DSE-1/2/3AT-Math-A8 DSE-1/2/3AT-Zoo-Physiology Lab	DSE-1/2/3AT-Phys-Com. Room DSE-1/2/3AT-Bot-Lab	DSE-1/2/3AT-Phys-Lab DSE-1/2/3AT-Bot-Lab	DSE-1/2/3AT-Physio-Lab DSE-1/2/3AT-Geo-Lab	
Friday	I (H)		C2T (Phys)-Gen Lab C2T (Chem)-Phyc Lab C2T (Bot)-L1 C2T (Zoo)-L1 C2T (Math)-Dept C2T (Geo)-Lab	C1T (Phys)-Gen. Lab C1T (Chem)-Phyc Lab C1T (Bot)-L1 C1T (Zoo)-L1 C1T (Math)-Dept C1T (Geo)-Lab	GE1P (Phys)-Electron. Lab GE1P(Bot)-L1 GE1P (Zoo)-L1 GE1P (Physio) GE1T (Math)-Dept GE1T (Geo)-Lab	GE1P (Phys)-Electron. Lab GE1P(Bot)-L1 GE1P (Zoo)-L1 GE1P (Physio)-Lab		Friday
	I (G)	DSC-1/2/3AP-Physio-Lab DSC-1/2/3AP-Geo-Lab	DSC-1/2/3AP-Physio-Lab DSC-1/2/3AP-Geo-Lab	DSC-1/2/3AT-Math-TR	DSC-1/2/3AP-Zoo-Lab	DSC-1/2/3AP-Zoo-Lab	DSC-1/2/3AP-Phys-Lab DSC-1/2/3AP-Bot-Lab	
	III (H)	C6P (Phys)-Electric. Lab C6P (Chem)-Iorg Lab C6P (Bot)-L2 C6P (Zoo)-L2 C6P (Geo)-Lab	C6P (Phys)-Electric. Lab C6P (Chem)-Iorg L C6P (Bot)-L2 C6P (Zoo)-L2 C6P (Geo)-Lab C6T (Math)-F. Annex	SEC1T (Phys)-Gen. Lab SEC1T(Chem)-Org L SEC1T (Bot)-L2 SEC1T (Zoo)-L2 SEC1T (Math)-F. Anx SEC1T (Geo)-A7	C5T (Phys)-Dept. Annex C5T (Chem)-Iorg L C5T (Bot)-L2 C5T (Zoo)-L2 C5T (Math)-F. Anx C5T (Geo)-A7	GE3T (Phys)-Gen. Lab GE3T (Bot)-L2 GE3T (Zoo)-L2 GE3T (Chem)-Iorg L GE3T (Geo)-Lab GE3T (Physio)-Lab	SEC1P (Chem)-Iorg L C5T (Math)-Dept	
	III (G)	DSC-1/2/3CP-Phys-Lab DSC-1/2/3CP-Bot4-Lab	DSC-1/2/3CP-Phys-Lab DSC-1/2/3CP-Bot-Lab	DSC-1/2/3CT-Math-Geo Annex DSC-1/2/3CP-Zoo-Annex Lab	DSC-1/2/3CP-Zoo-Lab	SEC1T (Phys)-Opt Lab SEC1T (Bot)-L3 SEC1T (Zoo)-CL1 SEC1T (Math)-Dept SEC1T (Geo)-F. anx SEC1T-(Chem)-Comp Lab	DSC-1/2/3CP-Physio-Lab DSC-1/2/3CP-Geo-Lab	
	V (H)		C12T (Phys)-Dept. Annex C12T (Chem)-Com Lab C12T (Bot)-L3 C12T (Zoo)-CL1 C12T (Math)-SH Anx C12T (Geo)-F5	C11T (Phys)-Dept. Annex C11T (Chem)-Com Lab C11T (Bot)-L3 C11T (Zoo)-CL1 C11T (Math)-S2 C11T (Geo)-SH Anx	DSE2T (Phys)-Electric. Lab DSE2T(Chem)-Org L DSE2T (Bot)-L3 DSE2T (Zoo)-CL1 DSE2T (Math)-Com Lab DSE2T (Geo)-SH. Anx	DSE2P(Chem)-Org L DSE2P (Bot)-L3 DSE2P (Zoo)-CL1 DSE2T (Geo)S5-	DSE2P(Chem)-Org L DSE2P (Bot)-L3 DSE2P (Zoo)-CL1 DSE2T (Geo)-Lab	
	V (G)	DSE-1/2/3AP-Phys-Lab DSE-1/2/3AP-Bot-Lab	DSE-1/2/3AP-Phys-Lab DSE-1/2/3AP-Bot-Lab	DSE-1/2/3AT-Math-A8 DSE1/2/3A1P-Zoo-Lab	DSE-1/2/3AP-Zoo-Lab	SEC3T (Phys)-S6 SEC3T (Bot)-Lab SEC3T (Zoo)-Lab SEC3T (Math)-A3 SEC3T (Geo)-Lab SEC3T-(Chem)-Lab SEC3T- (Physio)-Lab	DSE-1/2/3AP-Physio-Lab DSE1/2/3AP-Geo-Lab	
Saturday	I (H)		C1P (Phys)-Com. Lab C1P (Chem)-Org L C1P (Bot)-L1 C1P (Zoo)-L1 C1T (Math)-Dept C1T (Geo)-Lab	C1P (Phys)-Com. Lab C1P (Chem)-Org L C1P (Bot)-L1 C1P (Zoo)-L1 C2T (Math)-Dept	GE1T (Phys)-Gen. Lab GE1T (Bot)-L1 GE1T (Zoo)-L1 GE1T (Math)-Dept GE1T (Geo)-Lab GE1T (Physio)-Lab			Saturday
	I (G)	DSC-1/2/3AP-Zoo-Lab	DSC-1/2/3AP-Zoo-Lab	DSC-1/2/3AT-Phys-Lab DSC-1/2/3AT-Geo. Annex	DSC-1/2/3AT-Math-			
	III (H)	C7P (Phys)-Electron. Lab C7PChem)- Org L C7P (Bot)-L2 C7P (Zoo)-L2 C7P (Math)-Com Lab C7T(Geo)-Lab	C7P (Phys)-Electron. Lab C7PChem)- Org L C7P (Bot)-L2 C7P (Zoo)-L2 C7P (Math)-Com Lab C7T (Geo)-F5	SEC1T (Phys)-Electron Lab SEC1T (Bot)-L2 SEC1T (Zoo)-L2 SEC1T (Math)-TR SEC1T (Geo)-S2	GE3T (Phys)-Electric. Lab GE3T (Bot)-L2 GE3T (Zoo)-L2 GE3T (Chem)-Org L GE3T (Geo)-F. Anx GE3T (Physio)-Lab			
	III (G)	DSC-1/2/3CP-Zoo-Lab	DSC-1/2/3CP-Zoo-Lab	SEC1P (Phys)-Lab SEC1P (Bot)-Lab SEC1P (Zoo)-Lab SEC1P (Geo)-Lab SEC1P-(Chem)-Lab	SEC1P (Phys)-Lab SEC1P (Bot)-Lab SEC1P (Zoo)-Lab SEC1P (Geo)-Lab SEC1P-(Chem)-Lab			
	V (H)		DSE1T (Phys)-Electric. Lab DSE1T(Chem)-Inorg. Lab DSE1T (Bot)-L3 DSE1T (Zoo)-CL1 DSE1T (Math)-F. Anx DSE1T (Geo)-A7	DSE2T (Phys)-Electric. Lab DSE1P(Chem)-Iorg L DSE1P (Bot)-L3 DSE1P (Zoo)-CL1 DSE2T (Math)-F. Anx DSE1P (Geo)-Lab	DSE1T (Phys)-Electron. Lab DSE1P(Chem)-Iorg Lab DSE1P (Bot)-L3 DSE1P (Zoo)-CL1 DSE1T (Math)-F3 DSE1P (Geo)-Lab			
	V (G)	DSE-1/2/3AP-Zoo-Lab	DSE-1/2/3AP-Zoo-Lab	SEC3P (Phys)-Lab SEC3P (Bot)-Lab SEC3P (Zoo)-Lab SEC3P (Geo)-Lab SEC3P-(Chem)-Lab SEC3P- (Physio)-Lab	SEC3P (Phys)-Lab SEC3P (Bot)-Lab SEC3P (Zoo)-Lab SEC3P (Geo)-Lab SEC3P-(Chem)-Lab SEC3P- (Physio)-Lab			

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VIDYASAGAR UNIVERSITY

Curriculum for 3 -Year B Sc (HONOURS)
in
Botany

Under Choice Based Credit System (CBCS)
w.e.f 2017-2018

VIDYASAGAR UNIVERSITY

B Sc (Honours) in Botany

[Choice Based Credit System]

Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks		
							CA	ESE	TOTAL
	Semester-I								
1	I	Core-1		CT1: Algae and Microbiology	6	4-0-0	15	60	75
				CP1: Algae and Microbiology-**Lab**		0-0-4			
		Core-2		CT2: Biomolecule and Cell Biology	6	4-0-0	15	60	75
				CP2: Biomolecule and Cell Biology-**Lab**		0-0-4			
		GE-1		TBD	6	4/5	15	60	75
				TBD		2/1			
		AECC-1		English/MIL	2	1-1-0	10	40	50
	Semester –I: total				**20**				**275**
	Semester-II								
	II	Core-3		CT3: Mycology and Phytopathology	6	4-0-0	15	60	75
				CP3: Mycology and Phytopathology -**Lab**		0-0-4			
		Core-4		CT4: Archegoniate	6	4-0-0	15	60	75
				CP4: Archegoniate-**Lab**		0-0-4			
		GE-2		TBD	6	4/5	15	60	75
				TBD		2/1			
		AECC-2		ENVS	4		20	80	100
	Semester-II : total				**22**				**325**

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Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks		
							CA	ESE	TOTAL
2	**Semester-III**								
	III	Core-5		CT5: Morphology and Anatomy	6	4-0-0	15	60	75
				CP5: Morphology and Anatomy - **Lab**		0-0-4			
		Core-6		CT6: Economic Botany	6	4-0-0	15	60	75
				CP6: Economic Botany-**Lab**		0-0-4			
		Core-7		CT7: Genetics	6	4-0-0	15	60	75
				CP7: Genetics -**Lab**		0-0-4			
		GE-3		TBD	6	4/5	15	60	75
						2/1			
		SEC-1		TBD	2		10	40	50
		Semester – III : total			**26**				**350**
	Semester-IV								
	IV	Core-8		CT8: Molecular Biology	6	4-0-0	15	60	75
				CP8: Molecular Biology -**Lab**		0-0-4			
		Core-9		CT9: Plant Ecology and Phytogeography	6	4-0-0	15	60	75
				CP9: Plant Ecology and Phytogeography **-Lab**		0-0-4			
		Core-10		CT10: Plant Systematics	6	4-0-0	15	60	75
				CP10: Plant Systematics-**Lab**		0-0-4			
		GE-4		TBD	6	4/5	15	60	75
						2/1			
		SEC-2		TBD	2		10	40	50
		Semester – IV : total			**26**				**350**

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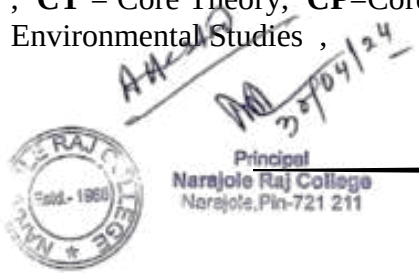
Year	Semester	Course Type	Course Code	Course Title	Credit	L-T-P	Marks		
							CA	ESE	TOTAL
3	V	**Semester-V**							
		Core-11		CT11: Reproductive Biology Angiosperms	6	4-0-0	15	60	75
				CP11: Reproductive Biology Angiosperms -**Lab**		0-0-4			
		Core-12		CT12: Plant Physiology	6	4-0-0	15	60	75
				CP12: Plant Physiology -**Lab**		0-0-4			
		DSE-1		TBD	6	4-0-0	15	60	75
						0-0-4			
		DSE-2		TBD	6	4-0-0	15	60	75
						0-0-4			
		Semester –V : total			**24**				**300**
		Semester-VI							
	VI	Core-13		CT13: Plant Metabolism	6	4-0-0	15	60	75
				CP13: Plant Metabolism -**Lab**		0-0-4			
		Core-14		CT14: Plant Biotechnology	6	4-0-0	15	60	75
				CP14: Plant Biotechnology-**Lab**		0-0-4			
		DSE-3		TBD	6	4-0-0	15	60	75
						0-0-4			
		DSE-4		TBD	6	4-0-0	15	60	75
						0-0-4			
		Semester – VI : total			**24**				**300**
Total in all semester:					**142**				**1900**

CC = Core Course , **AECC** = Ability Enhancement Compulsory Course , **GE** = Generic Elective , **SEC** = Skill Enhancement Course , **DSE** = Discipline Specific Elective , **CA**= Continuous Assessment , **ESE**= End Semester Examination , **TBD**=To be decided , **CT** = Core Theory, **CP**=Core Practical , **L** = Lecture, **T** = Tutorial ,**P** = Practical , **MI**L = Modern Indian Language , **ENV**S = Environmental Studies ,



List of Core Course (CC)

CC-1: Phycology and Microbiology
CC-2: Bio-molecules and Cell Biology
CC-3: Mycology and Phytopathology
CC-4: Archegoniate
CC-5: Anatomy of Angiosperms
CC-6: Economic Botany
CC-7: Genetics
CC-8: Molecular Biology
CC-9: Plant Ecology and Phytogeography
CC-10: Plant Systematics
CC-11: Reproductive Biology of Angiosperms
CC-12: Plant Physiology
CC-13: Plant Metabolism
CC-14: Plant Biotechnology

Discipline Specific Electives (DSE)

DSE-1: Natural Resource Management
Or
DSE-1: Biostatistics
DSE-2: Plant Breeding
Or
DSE-2: Stress Biology
DSE-3: Industrial and Environmental Microbiology
Or
DSE-3: Bioinformatics
DSE-4: Analytical Techniques in Plant Sciences
Or
DSE- 4: Research Methodology

Skill Enhancement Course (SEC)

SEC-1: Biofertilizers
Or
SEC- 1: Floriculture

SEC-2: Medicinal Botany
Or
SEC-2: Mushroom Culture Technology

Generic Electives (GE)

GE-1: Biodiversity (Microbes, Algae, Fungi and Archegoniate)
GE-2 : Plant Ecology and Taxonomy
GE-3: Economic Botany and Plant Biotechnology
GE-4: Plant Anatomy and Embryology
Or
GE-4: Plant Physiology and Metabolism

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Core Courses(CC)

CC-1: Phycology and Microbiology **Credits 06**

C1T: Phycology and Microbiology **Credits 04**

Course Contents:

Unit 1: Introduction to microbial world
Microbial nutrition, growth and metabolism. Economic importance of viruses with reference to vaccine production, role in research, medicine and diagnostics, as causal organisms of plant diseases. Economic importance of bacteria with reference to their role in agriculture and industry (fermentation and medicine).

Unit 2: Viruses
Discovery, physiochemical and biological characteristics; classification (Baltimore), general structure with special reference to viroids and prions; replication (general account), DNA virus (T-phage), lytic and lysogenic cycle; RNA virus (TMV).

Unit 3: Bacteria
Discovery, general characteristics; Types-archaebacteria, eubacteria, wall-less forms (mycoplasma and spheroplasts); Cell structure; Nutritional types; Reproduction-vegetative, asexual and recombination (conjugation, transformation and transduction).

Unit 4: Algae
General characteristics; Ecology and distribution; range of thallus organization; Cell structure and components; cell wall, pigment system, reserve food (of only groups represented in the syllabus), flagella; methods of reproduction; Classification; criteria, system of Fritsch, and evolutionary classification of Lee (only upto groups) and Van – den Hoek et.al(1982); Significant contributions of important phycologists (F.E. Fritsch, G.M. Smith, R.N. Singh, T.V. Desikachary, H.D. Kumar, M.O.P. Iyengar). Role of algae in the environment, agriculture, biotechnology and industry.

Unit 5: Cyanophyta and Xanthophyta
Ecology and occurrence; Range of thallus organization; Cell structure; Reproduction, Morphology and life-cycle of *Nostoc* and *Vaucheria.*

Unit 6: Chlorophyta and Charophyta
General characteristics; Occurrence; Range of thallus organization; Cell structure; Reproduction. Morphology and life-cycles of *Chlamydomonas, Volvox, Oedogonium, Coleochaete, Chara.*
Evolutionary significance of *Prochloron.*

Unit 7: Phaeophyta and Rhodophyta
Characteristics; Occurrence; Range of thallus organization; Cell structure; Reproduction. Morphology and life-cycles of *Ectocarpus, Fucus* and *Polysiphonia.*

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C1P: Phycology and Microbiology (Practical) **Credits 02**

(Practical)

Microbiology

1. Electron micrographs/Models of viruses – T-Phage and TMV, Line drawings/ Photographs of Lytic and Lysogenic Cycle.
2. Types of Bacteria to be observed from temporary/permanent slides/photographs. Electron micrographs of bacteria, binary fission, endospore, conjugation, root Nodule.
3. Gram staining.
4. Endospore staining with malachite green using the (endospores taken from soil bacteria).
5. Study of bacteria from root nodules/Curd sample.

Phycology

Study of vegetative and reproductive structures of *Nostoc, Chlamydomonas* (electron micrographs), Volvox, *Oedogonium,Coleochaete, Chara, Vaucheria, Ectocarpus, Fucus and Polysiphonia, Procholoron* through electron micrographs, temporary preparations and permanent slides.

Suggested Readings:

- Lee, R.E. (2008). Phycology, Cambridge University Press, Cambridge. 4th edition.
- Wiley JM, Sherwood LM and Woolverton CJ. (2013) Prescott's Microbiology. 9th Edition. McGraw
- Hill International.
- Kumar, H.D. (1999). Introductory Phycology. Affiliated East-West Press, Delhi.
- 4.Sahoo, D. (2000). Farming the ocean: seaweeds cultivation and utilization. Aravali International,New Delhi.
- Campbell, N.A., Reece J.B., Urry L.A., Cain M.L., Wasserman S.A. Minorsky P.V., Jackson
- R.B. (2008). Biology, Pearson Benjamin Cummings, USA. 8th edition.
- Pelczar, M.J. (2001) Microbiology, 5th edition, Tata McGraw-Hill Co, New Delhi.

CC-2 : Bio-molecules and Cell Biology **Credits 06**

C2T : Bio-molecules and Cell Biology **Credits 04**

Course Contents:

Unit-1: Biomolecules

Types and significance of chemical bonds; Structure and properties of water; pH and buffers.

Carbohydrates: Nomenclature and classification; Monosaccharides; Disaccharides; Oligosaccharides and polysaccharides.

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Lipids: Definition and major classes of storage and structural lipids; Fatty acids structure and functions; Essential fatty acids; Triacyl glycerols structure, functions and properties; Phosphoglycerides.
Proteins: Structure of amino acids; Levels of protein structure-primary, secondary, tertiary and quarternary; Protein denaturation and biological roles of proteins.

Nucleic acids: Structure of nitrogenous bases; Structure and function of nucleotides; Types of nucleic acids; Structure of A, B, Z types of DNA; Types of RNA; Structure of tRNA.

Unit- 2: Bioenergenetics
Laws of thermodynamics, concept of free energy, endergonic and exergonic reactions, coupled reactions, redox reactions. ATP: structure, its role as a energy currency molecule.

Unit- 3: Enzymes
Structure of enzyme: holoenzyme, apoenzyme, cofactors, coenzymes and prosthetic group; Classification of enzymes; Features of active site, substrate specificity, mechanism of action (activation energy, lock and key hypothesis, induced - fit theroy), Michaelis – Menten equation, enzyme inhibition and factors affecting enzyme activity.

Unit-4: The cell
Cell as a unit of structure and function; Characteristics of prokaryotic and eukaryotic cells; Origin ofeukaryotic cell (Endosymbiotic theory).

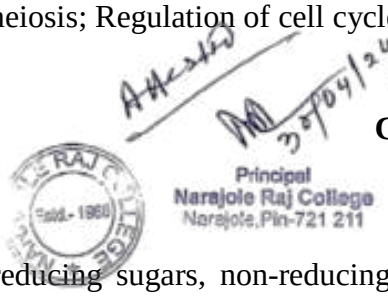
Unit- 5: Cell wall and plasma membrane
Chemistry, structure and function of Plant cell wall. Overview of membrane function; fluid mosaic model; Chemical composition of membranes; Membrane transport – Passive, active and facilitated transport, endocytosis and exocytosis.

Unit- 6: Cell organelles
Nucleus: Structure-nuclear envelope, nuclear pore complex, nuclear lamina, molecular organization of chromatin; nucleolus. **Cytoskeleton:** Role and structure of microtubules, microfilaments and intermediary filament. **Chloroplast, mitochondria and peroxisomes:** Structural organization; Function; Semiautonomous nature of mitochondria and chloroplast. **Endomembrane system:** Endoplasmic Reticulum – Structure, targeting and insertion of proteins in the ER, protein folding, processing; Smooth ER and lipid synthesis, export of proteins and lipids; Golgi Apparatus – organization, protein glycosylation, protein sorting and export from Golgi Apparatus; Lysosomes

Unit -7: Cell division
Phases of eukaryotic cell cycle, mitosis and meiosis; Regulation of cell cycle- checkpoints, role of protein kinases.

C2P : Bio-molecules and Cell Biology **Credits 02**

(Practical)



1. Qualitative tests for carbohydrates, reducing sugars, non-reducing sugars, lipids and proteins.

2. Study of plant cell structure with the help of epidermal peel mount of Onion/*Rhoeo/Crinum*.
3. Demonstration of the phenomenon of protoplasmic streaming in *Hydrilla* leaf.
4. Measurement of cell size by the technique of micrometry.
5. Counting the cells per unit volume with the help of haemocytometer. (Yeast / pollen grains).
6. Study of cell and its organelles with the help of electron micrographs.
7. Cytochemical staining of : DNA- Feulgen Acto carmin and Aceto Orcrin stain and cell wall in the epidermal peel of onion using Periodic Schiff's (PAS) staining technique.
8. Study the phenomenon of plasmolysis and deplasmolysis.
9. Study the effect of organic solvent and temperature on membrane permeability.
10. Study different stages of mitosis and meiosis.

Suggested Readings:

- Campbell, MK (2012) Biochemistry, 7th ed., Published by Cengage Learning
- Campbell, PN and Smith AD (2011) Biochemistry Illustrated, 4th ed., Published by Churchill Livingstone
- Tymoczko JL, Berg JM and Stryer L (2012) Biochemistry: A short course, 2nd ed., W.H.Freeman
- Berg JM, Tymoczko JL and Stryer L (2011) Biochemistry, W.H.Freeman and Company
- Nelson DL and Cox MM (2008) Lehninger Principles of Biochemistry, 5th Edition., W.H. Freeman and Company.
- Karp, G. (2010). Cell Biology, John Wiley & Sons, U.S.A. 6th edition.
- Hardin, J., Becker, G., Skliensmith, L.J. (2012). Becker's World of the Cell, Pearson Education Inc. U.S.A. 8th edition.
- Cooper, G.M. and Hausman, R.E. (2009) The Cell: A Molecular Approach. 5th edition. ASM Press & Sunderland, Washington, D.C.; Sinauer Associates, MA.
- Becker, W.M., Kleinsmith, L.J., Hardin. J. and Bertoni, G. P. (2009) The World of the Cell. 7th edition. Pearson Benjamin Cummings Publishing, San Francisco

CC-3 : Mycology and Phytopathology **Credits 06**

C3 T : Mycology and Phytopathology **Credits 04**

Course Contents:

Unit- 1: Introduction to true fungi

General characteristics; Affinities with plants and animals; Thallus organization; Cell wall composition; Nutrition; Classification.

Unit- 2: Chytridiomycota and Zygomycota

Characteristic features; Ecology and significance; Thallus organisation; Reproduction; Life cycle with reference to *Synchytrium, Rhizopus* .

Unit-3: Ascomycota

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General characteristics (asexual and sexual fruiting bodies); Ecology; Life cycle, Heterokaryosis and parasexuality; Life cycle and classification with reference to *Saccharomyces, Aspergillus, Penicillium, Alternaria, Neurospora* and *Peziza.*

Unit- 4: Basidiomycota
General characteristics; Ecology; Life cycle and Classification with reference to black stem rust on wheat *Puccinia* (Physiological Specialization), loose and covered smut (symptoms only), *Agaricus*; Bioluminescence, Fairy Rings and Mushroom Cultivation with special reference to Oyster Mashroom..

Unit- 5: Allied Fungi
General characteristics; Status of Slime molds, Classification; Occurrence; Types of plasmodia; Types of fruiting bodies.

Unit- 6: Oomycota
General characteristics; Ecology; Life cycle and classification with reference to *Phytophthora, Albugo.*

Unit -7: Symbiotic associations
Lichen – Occurrence; General characteristics; Growth forms and range of thallus organization; Nature of associations of algal and fungal partners; Reproduction; Mycorrhiza-Ectomycorrhiza, Endomycorrhiza and their significance.

Unit- 8: Applied Mycology
Role of fungi in biotechnology; Application of fungi in food industry (Flavour & texture, Fermentation, Baking, Organic acids, Enzymes, Mycoproteins); Secondary metabolites (Pharmaceutical preparations); Agriculture (Biofertilizers); Mycotoxins; Biological control (Mycofungicides, Mycoherbicides, Mycoinsecticides, Myconematicides); Medical mycology.

Unit- 9: Phytopathology
Terms and concepts; General symptoms; Geographical distribution of diseases; Etiology; Symptomology; Host-Pathogen relationships; Disease cycle and environmental relation; prevention and control of plant diseases, and role of quarantine.
Bacterial diseases – Citrus canker and angular leaf spot of cotton. Viral diseases – Tobacco Mosaic viruses, vein clearing. Fungal diseases – Early blight of potato, Black stem rust of wheat, White rust of crucifers.

C3P: Mycology and Phytopathology **Credits 02**

Practical
1. Introduction to the world of fungi (Unicellular, coenocytic/septate mycelium, ascocarps & basidiocarps).
2. *Rhizopus*: study of asexual stage from temporary mounts and sexual structures through permanent slides.
3. *Aspergillus* and *Penicillium*: study of asexual stage from temporary mounts. Study of Sexual stage from permanent slides/photographs.
4. *Peziza*: Ascobulus sectioning through ascocarp.
5. *Alternaria:* Specimens/photographs and temporary mounts.

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6. *Puccinia*: Herbarium specimens of Black Stem Rust of Wheat and infected Barberry leaves; sections/ mounts of spores on wheat and permanent slides of both the hosts.
7. *Agaricus*: Specimens of button stage and full grown mushroom; sectioning of gills of *Agaricus*, fairy rings and bioluminescent mushrooms to be shown.
8. Study of phaneroplasmodium from actual specimens and /or photograph. Study of *Stemonitis* sporangia.
9. *Albugo:* Study of symptoms of plants infected with *Albugo*; asexual phase study through section/ temporary mounts and sexual structures through permanent slides.
10. Lichens: Study of growth forms of lichens (crustose, foliose and fruticose) on different substrates. Study of thallus and reproductive structures (soredia and apothecium) through permanent slides. Mycorrhizae: ectomycorrhiza and endomycorrhiza (Photographs)
11. Phytopathology : Herbarium specimens of bacterial diseases; Citrus Canker; Angular leaf spot of cotton, Viral diseases: TMV, Vein clearing, Fungal diseases: Early blight of potato, Black stem rust of wheat and White rust of crucifers.

Suggested Readings:

- Agrios, G.N. (1997) Plant Pathology, 4th edition, Academic Press, U.K.
- Alexopoulos, C.J., Mims, C.W., Blackwell, M. (1996). Introductory Mycology, John Wiley & Sons (Asia) Singapore. 4th edition.
- Webster, J. and Weber, R. (2007). Introduction to Fungi, Cambridge University Press, Cambridge. 3rd edition.
- Sethi, I.K. and Walia, S.K. (2011). Text book of Fungi and Their Allies, Macmillan Publishers India Ltd.
- Sharma, P.D. (2011). Plant Pathology, Rastogi Publication, Meerut, India.

CC-4: Archegoniate **Credits 06**

C4T: Archegoniate **Credits 04**

Course Contents:

Unit 1: Introduction

Unifying features of archegoniates; Transition to land habit; Alternation of generations.

Unit 2: Bryophytes

General characteristics; Adaptations to land habit; Classification; Range of thallus organization.

Unit 3: Type Studies- Bryophytes

Classification (up to family), morphology, anatomy and reproduction of *Riccia, Marchantia, Pellia, Porella, Anthoceros, Sphagnum and Funaria*; Pogonatum,Reproduction and evolutionary trends in *Riccia, Marchantia, Plagichasma Anthoceros* and *Funaria* (developmental stages not included). Ecological and economic importance of bryophytes with special reference to *Sphagnum*.

Unit 4: Pteridophytes

General characteristics; Classification; Early land plants (*Cooksonia* and *Rhynia*).

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Unit 5: Type Studies- Pteridophytes
Classification (up to family), morphology, anatomy and reproduction of *Psilotum*, *Selaginella*, *Equisetum* and *Pteris* (Developmental details not to be included).Apogamy, and apospory, heterospory andseed habit, telome theory, stelar evolution; Ecological and economic importance.

Unit 6: Gymnosperms
General characteristics, classification (up to family), morphology, anatomy and reproduction of *Cycas*, *Pinus* and *Gnetum* (Developmental details not to be included); Ecological and economic importance.

C4P : Archegoniate **Credits 02**

Practical

1. ***Riccia*** – Morphology of thallus.

2. ***Marchantia***- Morphology of thallus, whole mount of rhizoids & Scales, vertical sectionof thallus through Gemma cup, whole mount of Gemmae (all temporary slides), vertical section of Antheridiophore, Archegoniophore, longitudinal section of Sporophyte (all permanent slides).

3. ***Anthoceros***- Morphology of thallus, dissection of sporophyte (to show stomata, spores, pseudoelaters, columella) (temporary slide), vertical section of thallus (permanent slide).

4. ***Pellia, Porella***- Permanent slides.

5. ***Sphagnum***- Morphology of plant, whole mounts of leaf (permanent slide only).

6. ***Funaria***- Pogonatum/ Polytrichum Morphology, whole mount of leaf, rhizoids, operculum, peristome, annulus, spores (temporary slides); permanent slides showing antheridial and archegonial heads, longitudinal section of capsule and protonema.

7. ***Psilotum***- Study of specimen, transverse section of synangium (permanent slide).

8. ***Selaginella***- Morphology, whole mount of leaf with ligule, transverse section of stem, whole mount of strobilus, whole mount of microsporophyll and megasporophyll (temporary slides), longitudinal section of strobilus (permanent slide).

9. ***Equisetum***- Morphology, transverse section of internode, longitudinal section of strobilus, transverse section of strobilus, whole mount of sporangiophore, whole mount of spores (wet and dry) (temporary slide), transverse section of rhizome (permanent slide).

10. ***Pteris***- Morphology, transverse section of rachis, vertical section of sporophyll, wholemount of sporangium, whole mount of spores (temporary slides), transverse section of rhizome, whole mount of prothallus with sex organs and young sporophyte (permanent slide).

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11. ***Cycas***- Morphology (coralloid roots, bulbil, leaf), whole mount of microsporophyll, transverse section of coralloid root, transverse section of rachis, vertical section of leaflet, vertical section of microsporophyll, whole mount of spores (temporary slides), longitudinal section of ovule, transverse section of root (permanent slide).

12. ***Pinus***- Morphology (long and dwarf shoots, whole mount of dwarf shoot, male and female cones), transverse section of Needle, transverse section of stem, longitudinal section of / transverse section of male cone, whole mount of microsporophyll, whole mount of Microspores (temporary slides), longitudinal section of female cone, tangential longitudinal section &radial longitudinal sections stem (permanent slide).

13. ***Gnetum***- Morphology (stem, male & female cones), transverse section of stem, vertical section of ovule (permanent slide)

14. **Botanical excursion.**

Suggested Readings:

- Vashistha, P.C., Sinha, A.K., Kumar, A. (2010). Pteridophyta. S. Chand. Delhi, India.
- Bhatnagar, S.P. & Moitra, A. (1996). Gymnosperms. New Age International (P) Ltd Publishers, New Delhi, India.
- Parihar, N.S. (1991). An introduction to Embryophyta: Vol. I. Bryophyta. Central Book Depot. Allahabad.
- Raven, P.H., Johnson, G.B., Losos, J.B., Singer, S.R. (2005). Biology. Tata McGraw Hill, Delhi.
- Vanderpoorten, A. & Goffinet, B. (2009) Introduction to Bryophytes. Cambridge University Press.

CC-5: Anatomy of Angiosperms **Credits 06**

C5T: Anatomy of Angiosperms **Credits 04**

Course Contents:

Unit 1: Introduction and scope of Plant Anatomy: Applications in systematics, forensics and pharmacognosy**.**

Unit 2: Structure and Development of Plant Body

Internal organization of plant body: The three tissue systems, types of cells and tissues. Development of plant body: polarity, cytodifferentiation and organogenesis during embryogenic development, Root-stem transition, Nodal anatomy – Basic concept.

Unit 2: Tissues

Classification of tissues; Simple and complex tissues (no phylogeny); cytodifferentiation of tracheary elements and sieve elements; Pits and plasmodesmata; Wall ingrowths and transfer cells, adcrustation and incrustation, Ergastic substances. Hydathodes, cavities, lithocysts and laticifers.

Unit 3: Apical meristems

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Evolution of concept of organization of shoot apex (Apical cell theory, Histogen theory, Tunica Corpus theory, continuing meristematic residue, cytohistological zonation); Types of vascular bundles; Structure of dicot and monocot stem. Origin, development, arrangement and diversity in size and shape of leaves; Structure of dicot and monocot leaf, Kranz anatomy. Organization of root apex (Apical cell theory, Histogen theory, Korper-Kappe theory); Quiescent centre; Root cap; Structure of dicot and monocot root; Endodermis, exodermises and origin of lateral root.

Unit 4: Vascular Cambium and Wood

Structure, function and seasonal activity of cambium; Secondary growth in root and stem. Anomalous secondary growth in Bignonia, Boerhaavia , *Aristolochia* and Dracaena. Axially and radially oriented elements; Types of rays and axial parenchyma; Cyclic aspects and reaction wood; Sapwood and heartwood; Ring and diffuse porous wood; Early and late wood, tyloses; Dendrochronology. Development and composition of periderm, rhytidome and lenticels.

Unit 5: Adaptive and Protective Systems

Epidermal tissue system, cuticle, epicuticular waxes, trichomes(uni-and multicellular, glandular and nonglandular, two examples of each), stomata (classification); Adcrustation and incrustation; Anatomical adaptations of xerophytes and hydrophytes. Mechanical tissue – distribution and significance.

C5P: Anatomy of Angiosperms **Credits 02**

Practical

1. Study of anatomical details through permanent slides/temporary stain mounts/ macerations/museum specimens with the help of suitable examples.
2. Apical meristem of root, shoot and vascular cambium.
3. Distribution and types of parenchyma, collenchyma and sclerenchyma.
4. Xylem: Tracheary elements-tracheids, vessel elements; thickenings; perforation plates; xylem fibres.
5. Wood: ring porous; diffuse porous; tyloses; heart- and sapwood.
6. Phloem: Sieve tubes-sieve plates; companion cells; phloem fibres.
7. Epidermal system: cell types, stomata types; trichomes: non-glandular and glandular.
8. Root: monocot, dicot, secondary growth.
9. Stem: monocot, dicot - primary and secondary growth; periderm; lenticels.
10. Leaf: isobilateral, dorsiventral, C4 leaves (Kranz anatomy).
11. Adaptive Anatomy: xerophytes, hydrophytes.
12. Secretory tissues: cavities, lithocysts and laticifers.

Suggested Readings:

- Dickison, W.C. (2000). Integrative Plant Anatomy. Harcourt Academic Press, USA.
- Fahn, A. (1974). Plant Anatomy. Pergmon Press, USA.
- Mauseth, J.D. (1988). Plant Anatomy. The Benjammin/Cummings Publisher, USA.
- Evert, R.F. (2006) Esau's Plant Anatomy: Meristems, Cells, and Tissues of the Plant Body: Their Structure, Function and Development. John Wiley and Sons, Inc.

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CC-6: Economic Botany **Credits 06**

C6T: Economic Botany **Credits 04**

Course Contents:

Unit 1: Origin of Cultivated Plants
Concept of Centres of Origin, their importance with reference to Vavilov's work. Examples of major plant introductions; Crop domestication and loss of genetic diversity; evolution of new crops/varieties, importance of germplasm diversity.

Unit 2: Cereals
Wheat and Rice (origin, morphology, cultivation, management processing & uses); Brief account of millets.

Unit 3: Legumes
Origin, morphology cultivation, management and uses of Chick pea, Pigeon pea and fodder legumes. Importance to man and ecosystem.

Unit 4: Sources of sugars and starches

Morphology cultivation, management and processing of sugarcane, products and by-products of sugarcane industry. Potato – morphology, propagation & uses.

Unit 5: Spices
Listing of important spices, their family and part used. Economic importance with special reference to fennel, saffron, clove and black pepper

Unit 6: Beverages
Tea, Coffee (morphology, processing & uses)

Unit 7: Sources of oils and fats
General description, classification, extraction, their uses and health implications groundnut, coconut, linseed, soybean, mustard and coconut (Botanical name, family & uses). Essential Oils: General account, extraction methods, comparison with fatty oils & their uses.

Unit 8: Natural Rubber
Para-rubber: tapping, processing and uses.

Unit 9: Drug-yielding plants
Therapeutic and habit-forming drugs with special reference to C*inchona, Digitalis, Papaver* and *Cannabis*; Tobacco (Morphology, processing, uses and health hazards).

Unit 10: Timber plants
General account with special reference to teak and pine.

Unit 11: Fibers

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Classification based on the origin of fibers; Cotton, Coir and Jute (morphology, extraction and uses).

C6P: Economic Botany **Credits 02**

Practical

1. **Cereals**: Wheat (habit sketch, L. S/T.S. grain, starch grains, micro-chemical tests) Rice (habit sketch, study of paddy and grain, starch grains, micro-chemical tests).
2. **Legumes**: Soybean, Groundnut, (habit, fruit, seed structure, micro-chemical tests).
3. **Sources of sugars and starches**: Sugarcane (habit sketch; cane juice- micro-chemical tests), Potato (habit sketch, tuber morphology, T.S. tuber to show localization of starch grains, w.m. starch grains, micro-chemical tests).
4. **Spices:** Black pepper, Fennel and Clove (habit and sections).
5. **Beverages**: Tea (plant specimen, tea leaves), Coffee (plant specimen, beans).
6. **Sources of oils and fats**: Coconut- T.S. nut, Mustard–plant specimen, seeds; tests for fats in crushed seeds.
7. **Essential oil-yielding plants**: Habit sketch of *Rosa*, *Vetiveria*, *Santalum* and *Eucalyptus* (specimens/photographs).
8. **Rubber**: specimen, photograph/model of tapping, samples of rubber products.
9. **Drug-yielding plants**: Specimens of *Digitalis*, *Papaver* and *Cannabis.*
10. **Tobacco**: specimen and products of Tobacco.
11. **Woods:** *Tectona*, *Pinus*: Specimen, Section of young stem.
12. **Fiber-yielding plants**: Cotton (specimen, whole mount of seed to show lint and fuzz; whole mount of fiber and test for cellulose), Jute (specimen, transverse section of stem, test for lignin on transverse section of stem and fiber).

Suggested Readings:

- Kochhar, S.L. (2012). Economic Botany in Tropics, MacMillan & Co. New Delhi, India.
- Wickens, G.E. (2001). Economic Botany: Principles & Practices. Kluwer Academic Publishers, The Netherlands.
- Chrispeels, M.J. and Sadava, D.E. 1994 Plants, Genes and Agriculture. Jones & Bartlett_Publishers.

CC-7: Genetics **Credits 06**

C7T: Genetics **Credits 04**

Course Contents:

Unit 1: Mendelian genetics and its extension

Mendelism: History; Principles of inheritance; Chromosome theory of inheritance; Autosomes and sex chromosomes; Probability and pedigree analysis; Incomplete dominance and codominance; Multiple alleles, Lethal alleles, Epistasis, Pleiotropy, Recessive and Dominant traits, Penetrance and Expressivity, Numericals; Polygenic inheritance.

Unit 2: Extra-chromosomal Inheritance

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Chloroplast mutation: Variegation in Four o'clock plant; Mitochondrial mutations in yeast; Maternal effects-shell coiling in snail; Infective heredity- Kappa particles in *Paramecium.*

Unit 3: Linkage, crossing over and chromosome mapping
Linkage and crossing over-Cytological and molecular basis of crossing over; Recombination frequency, two factor and three factor crosses; Interference and coincidence; Numericals based on gene mapping; Sex Linkage.

Unit 4: Variation in chromosome number and structure
Deletion, Duplication, Inversion, Translocation, Position effect, Euploidy and Aneuploidy

Unit 5: Gene mutations
Types of mutations; Molecular basis of Mutations; Mutagens – physical and chemical (Base analogs, deaminating, alkylating and intercalating agents); Detection of mutations: ClB method. Role of Transposons in mutation.DNA repair mechanisms.

Unit 6: Fine structure of gene
Classical vs molecular concepts of gene; Cis-Trans complementation test for functional allelism; Structure of Phage T4, rII Locus.

Unit 6. Population and Evolutionary Genetics
Allele frequencies, Genotype frequencies, Hardy-Weinberg Law, role of natural selection, mutation, genetic drift. Genetic variation and Speciation.

C7P: Genetics **Credits 02**

Practical

1. Demonstration on pretreatment, fixation, staining and squash and smear preparation.
2. Study of Mitosis from Onion / Garlic / Lentil root.
3. Study of Meiosis with pollen mother cell (PMC) of Onion / Solanum / Datura by smear preparation.
4. Mendel's laws through seed ratios. Laboratory exercises in probability and chi-square.
5. Chromosome mapping using point test cross data.
6. Pedigree analysis for dominant and recessive autosomal and sex linked traits.
7. Incomplete dominance and gene interaction through seed ratios (9:7, 9:6:1, 13:3, 15:1, 12:3:1, 9:3:4).
8. Blood Typing: groups & Rh factor.
9. Study of aneuploidy: Down's, Klinefelter's and Turner's syndromes.
10. Photographs/Permanent Slides showing Translocation Ring, Laggards and Inversion Bridge.
11. Study of human genetic traits: Sickle cell anemia, Xeroderma Pigmentosum, Albinism, red-green Colour blindness, Widow's peak, Rolling of tongue, Hitchhiker's thumb and Attached ear lobe.

Suggested Readings:

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- Gardner, E.J., Simmons, M.J., Snustad, D.P. (1991). Principles of Genetics, John Wiley & sons, India. 8th edition.
- Snustad, D.P. and Simmons, M.J. (2010). Principles of Genetics, John Wiley & Sons Inc., India.5th edition.
- Klug, W.S., Cummings, M.R., Spencer, C.A. (2009). Concepts of Genetics. Benjamin Cummings, U.S.A. 9th edition.
- Griffiths, A.J.F., Wessler, S.R., Carroll, S.B., Doebley, J. (2010). Introduction to Genetic Analysis. W. H. Freeman and Co., U.S.A. 10th edition.

CC-8: Molecular Biology **Credits 06**

C8T: Molecular Biology **Credits 04**

Course Contents:

Unit- 1: Nucleic acids: Carriers of genetic information
Historical perspective; DNA as the carrier of genetic information (Griffith's, Hershey & Chase, Avery, McLeod & McCarty, Fraenkel-Conrat's experiment.

Unit -2. The Structures of DNA and RNA / Genetic Material
DNA Structure: Miescher to Watson and Crick- historic perspective, DNA structure, Salient features of double helix, Types of DNA, Types of genetic material, denaturation and renaturation, cot curves; Organization of DNA-Prokaryotes, Viruses, Eukaryotes.RNA Structure-Organelle DNA -- mitochondria and chloroplast DNA.The Nucleosome-Chromatin structure- Euchromatin, Heterochromatin- Constitutive and Facultative heterochromatin.

Unit- 2:The replication of DNA
Chemistry of DNA synthesis (Kornberg's discovery); General principles – bidirectional, semiconservative and semi discontinuous replication, RNA priming; Various models of DNA replication, including rolling circle, θ (theta) mode of replication, replication of linear ds-DNA, replication of the 5'end of linear chromosome; Enzymes involved in DNA replication.

Unit- 3: Central dogma and genetic code
Key experiments establishing-The Central Dogma (Adaptor hypothesis and discovery of mRNA template), Genetic code (deciphering & salient features**)**

Unit 4: Transcription
Transcription in prokaryotes and eukaryotes. Principles of transcriptional regulation;
Prokaryotes: Regulation of lactose metabolism and tryptophan synthesis in *E.coli.* Eukaryotes:transcription factors, heat shock proteins, steroids and peptide hormones; Gene silencing.

Unit 5: Processing and modification of RNA
Split genes-concept of introns and exons, removal of introns, spliceosome machinery, splicing pathways, group I and group II intron splicing, alternative splicing eukaryotic mRNA processing(5' cap, 3' polyA tail); Ribozymes; RNA editing and mRNA transport

Unit 6: Translation

Ribosome structure and assembly, mRNA; Charging of tRNA, aminoacyl tRNA synthetases; Various steps in protein synthesis, proteins involved in initiation, elongation and termination of polypeptides; Fidelity of translation; Inhibitors of protein synthesis; Post-translational modifications of proteins.

C8P: Molecular Biology **Credits 02**

Practical

1. Preparation of LB medium and raising *E.Coli.*
2. Isolation of genomic DNA from *E.Coli.*
3. DNA isolation from cauliflower head.
4. DNA estimation by diphenylamine reagent/UV Spectrophotometry.
5. Study of DNA replication mechanisms through photographs (Rolling circle, Theta replication and semi-discontinuous replication).
6. Study of structures of prokaryotic RNA polymerase and eukaryotic RNA polymerase II through photographs.
7. Photographs establishing nucleic acid as genetic material (Messelson and Stahl's, Avery et al,Griffith's, Hershey & Chase's and Fraenkel & Conrat's experiments)
8. Study of the following through photographs: Assembly of Spliceosome machinery; Splicing mechanism in group I & group II introns; Ribozyme and Alternative splicing.

Suggested Readings

- Watson J.D., Baker, T.A., Bell, S.P., Gann, A., Levine, M., Losick, R. (2007). Molecular Biology of the Gene, Pearson Benjamin Cummings, CSHL Press, New York, U.S.A. 6th edition.
- Snustad, D.P. and Simmons, M.J. (2010). Principles of Genetics. John Wiley and Sons Inc.,U.S.A. 5th edition.
- Klug, W.S., Cummings, M.R., Spencer, C.A. (2009). Concepts of Genetics. Benjamin Cummings. U.S.A. 9th edition.
- Russell, P. J. (2010). i-Genetics- A Molecular Approach. Benjamin Cummings, U.S.A. 3rd edition.
- Griffiths, A.J.F., Wessler, S.R., Carroll, S.B., Doebley, J. (2010). Introduction to Genetic Analysis. W. H. Freeman and Co., U.S.A. 10th edition.

CC-9: Plant Ecology and Phytogeography **Credits 06**

C9T: Plant Ecology and Phytogeography **Credits 04**

Course Contents:

Unit 1: Introduction

Basic concepts; Levels of organization. Inter-relationships between the living world and the environment, the components and dynamism, homeostasis.

Unit 2: Soil

Importance; Origin; Formation; Composition; Physical; Chemical and Biological components; Soil profile; Role of climate in soil development.

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Unit 3: Water
Importance: States of water in the environment; Atmospheric moisture; Precipitation types (rain, fog, snow, hail, dew); Hydrological Cycle; Water in soil; Water table.

Unit 4: Light, temperature, wind and fire
Variations; adaptations of plants to their variation.

Unit 5: Ecosystems
Structure; Processes; Trophic organisation; Food chains and Food webs; Ecological pyramids.

Unit 6: Population ecology
Characteristics and Dynamics .Ecological Speciation

Unit 7: Plant communities
Concept of ecological amplitude; Habitat and niche; Characters: analytical and synthetic; Ecotone and edge effect; Dynamics: succession – processes, types; climax concepts.

Unit 8: Biotic interactions
Trophic organization, basic source of energy, autotrophy, heterotrophy; symbiosis, commensalism, parasitism; food chains and webs; ecological pyramids; biomass, standing crop.

Unit 9: Functional aspects of ecosystem
Principles and models of energy flow; Production and productivity; Ecological efficiencies; Biogeochemical cycles; Cycling of Carbon, Nitrogen and Phosphorus.

Unit 10: Phytogeography
Principles; Continental drift; Theory of tolerance; Endemism; Brief description of major terrestrial biomes (one each from tropical, temperate & tundra); Phytogeographical division of India; Local Vegetation.

C9P: Plant Ecology and Phytogeography **Credits 02**

Practical

1. Study of instruments used to measure microclimatic variables: Soil thermometer, maximum and minimum thermometer, anemometer, psychrometer/hygrometer, rain gauge and lux meter.

2. Determination of pH of various soil and water samples (pH meter, universal indicator/Lovibond comparator and pH paper)
3. Analysis for carbonates, chlorides, nitrates, sulphates, organic matter and base deficiency from
4. two soil samples by rapid field tests.
5. Determination of organic matter of different soil samples by Walkley & Black rapid titration
6. method.

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7. Comparison of bulk density, porosity and rate of infiltration of water in soils of three habitats.
8. Determination of dissolved oxygen of water samples from polluted and unpolluted sources.
9. (a). Study of morphological adaptations of hydrophytes and xerophytes (four each).
   (b). Study of biotic interactions of the following: Stem parasite (*Cuscuta*), Root parasite (*Orobanche*) Epiphytes, Predation (Insectivorous plants).
10. Determination of minimal quadrat size for the study of herbaceous vegetation in the college campus, by species area curve method (species to be listed).
11. Quantitative analysis of herbaceous vegetation in the college campus for frequency and comparison with Raunkiaer's frequency distribution law.
12. Quantitative analysis of herbaceous vegetation for density and abundance in the college campus.
13. Field visit to familiarise students with ecology of different sites.

Suggested Readings:

- Odum, E.P. (2005). Fundamentals of ecology. Cengage Learning India Pvt. Ltd., New Delhi. 5th edition.
- Singh, J.S., Singh, S.P., Gupta, S. (2006). Ecology Environment and Resource Conservation.
- Anamaya Publications, New Delhi, India.
- Sharma, P.D. (2010). Ecology and Environment. Rastogi Publications, Meerut, India. 8th edition.
- Wilkinson, D.M. (2007). Fundamental Processes in Ecology: An Earth Systems Approach.
- Oxford University Press. U.S.A.
- Kormondy, E.J. (1996). Concepts of ecology. PHI Learning Pvt. Ltd., Delhi, India. 4th edition.

CC-10: Plant Systematics **Credits 06**

C10T: Plant Systematics **Credits 04**

Course Contents:

Unit 1: Significance of Plant systematics

Introduction to systematics; Plant identification, Classification, Nomenclature. Evidences from palynology, cytology, phytochemistry and molecular data. Field inventory; Functions of Herbarium; Important herbaria and botanical gardens of the world and India; Virtual herbarium; E-flora; Documentation: Flora, Monographs, Journals; Keys:Single access and Multi-access.

Unit 2: Taxonomic hierarchy

Concept of taxa (family, genus, species); Categories and taxonomic hierarchy; Species concept (taxonomic, biological, evolutionary).

Unit 3: Botanical nomenclature

Principles and rules (ICN); Ranks and names; Typification, author citation, valid publication, rejection of names, principle of priority and its limitations; Names of hybrids.

Unit 4: Systems of classification
Major contributions of Theophrastus, Bauhin, Tournefort, Linnaeus, Adanson, de Candolle, Bessey, Hutchinson, Takhtajan and Cronquist; Classification systems of Bentham and Hooker (upto series) and Engler and Prantl (upto series); Brief reference of Angiosperm Phylogeny Group (APG III) classification.

Unit 5: Biometrics, numerical taxonomy and cladistics
Characters; Variations; OTUs, character weighting and coding; Cluster analysis; Phenograms, cladograms (definitions and differences).

Unit 6: Phylogeny of Angiosperms
Terms and concepts (primitive and advanced, homology and analogy, parallelism and convergence, monophyly, Paraphyly, polyphyly and clades). Origin and evolution of angiosperms; Co-evolution of angiosperms and animals; Methods of illustrating evolutionary relationship (phylogenetic tree, cladogram).

C10P: Plant Systematics **Credits 02**

Practical
1. Study of vegetative and floral characters of the following families (Description, V.S. flower, section of ovary, floral diagram/s, floral formula/e and systematic position according to Bentham & Hooker's system of classification):
   1. Ranunculaceae - *Ranunculus, Delphinium.*
   2. Brassicaceae - *Brassica, Alyssum / Iberis.*
   3. Malvaceae – *Sida Sp. Urena lobota.*
   4. Myrtaceae - *Eucalyptus, Callistemon*
   5. Umbelliferae - *Coriandrum /Anethum / Foeniculum.*
   6. Asteraceae - *Sonchus/Launaea, Vernonia/Ageratum, Eclipta/Tridax.*
   7. Solanaceae - *Solanum nigrum/Withania, Nicotina, Plumbaginefolia.*
   8. Lamiaceae - *Salvia/Ocimum.*
   9. Euphorbiaceae - *Euphorbia hirta/E.milii, Jatropha.*
   10. Fasaceae – *Tephrosia Sp.,Crotalaria Sp.,*
   11. Caesalpineaeceae – *Cassia* Sp.,
   12. Asclepiadaeceae- *Pesgularia Gygnema,*
   13. Apocynaceae – *Hollorhen, Catharanthus.*
   14. Rubiaceae – *Oldenladeae, Spermoeoceae,*
   15. Liliaceae - *Asphodelus/Lilium/Allium.*
   16. Poaceae - *Triticum/Hordeum/Avena.*

2. Field visit (local) – Subject to grant of funds from the university.

3. Mounting of a properly dried and pressed specimen of any wild plant with herbarium label (to be submitted in the record book).

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Suggested Readings:

- Singh, (2012). *Plant Systematics:* Theory and Practice Oxford & IBH Pvt. Ltd., New Delhi. 3rd edition.

- Jeffrey, C. (1982). An Introduction to *Plant Taxonomy*. Cambridge University Press, Cambridge.
- Judd, W.S., Campbell, C.S., Kellogg, E.A., Stevens, P.F. (2002). Plant Systematics-A
- Phylogenetic Approach. Sinauer Associates Inc., U.S.A. 2nd edition.
- Maheshwari, J.K. (1963). *Flora* of Delhi. CSIR, New Delhi.
- Radford, A.E. (1986). Fundamentals of *Plant Systematics*. Harper and Row, New York.

CC-11: Reproductive Biology of Angiosperms **Credits 06**

C11T: Reproductive Biology of Angiosperms **Credits 04**

Course Contents:

Unit 1: Introduction
History (contributions of G.B. Amici, W. Hofmeister, E. Strasburger, S.G. Nawaschin, P. Maheshwari, B.M. Johri, W.A. Jensen, J. Heslop-Harrison) and scope.

Unit 2: Reproductive development
Induction of flowering; flower as a modified determinate shoot. Flower development: genetic and molecular aspects.

Unit 3: Anther and pollen biology
Anther wall: Structure and functions, microsporogenesis, callose deposition and its significance. Microgametogenesis; Pollen wall structure, MGU (Male Germ Unit) structure, NPC system; Palynology and scope (a brief account); Pollen wall proteins; Pollen viability, storage and germination; Abnormal features: Pseudomonads, polyads, massulae, pollinia.

Unit 4: Ovule
Structure; Types; Special structures–endothelium, obturator, aril, caruncle and hypostase; Female Gametophyte – megasporogenesis (monosporic, bisporic and tetrasporic) and megagametogenesis (details of *Polygonum* type); Organization and ultrastructure of mature embryo sac.

Unit 4: Pollination and fertilization
Pollination types and significance; adaptations; structure of stigma and style; path of pollen tube in pistil; double fertilization.

Unit 5: Self incompatibility
Basic concepts (interspecific, intraspecific, homomorphic, heteromorphic, GSI and SSI); Methods to overcome self- incompatibility: mixed pollination, bud pollination, stub pollination; Intra-ovarian and *in vitro* pollination; Modification of stigma surface, parasexual hybridization; Cybrids, *in vitro* fertilization.

Unit 6: Embryo, Endosperm and Seed
Structure and types; General pattern of development of dicot and monocot embryo and endosperm; Suspensor: structure and functions; Embryo-endosperm relationship; Nutrition

of embryo; Unusual features; Embryo development in *Paeonia*. Seed structure, importance and dispersal mechanisms

Units 7: Polyembryony and apomixis
Introduction; Classification; Causes and applications.

C11P: Reproductive Biology of Angiosperms **Credits 02**

Practical

1. Anther: Wall and its ontogeny; Tapetum (amoeboid and glandular); MMC, spore tetrads, uninucleate, bicelled and dehisced anther stages through slides/micrographs, male germ unit (MGU) through photographs and schematic representation.

2. Pollen grains: Fresh and acetolyzed showing ornamentation and aperture, psuedomonads, polyads, pollinia (slides/photographs,fresh material), ultrastructure of pollen wall(micrograph); Pollen viability: Tetrazolium test.germination: Calculation of percentage germination in different media using hanging drop method.

3. Ovule: Types-anatropous, orthotropous, amphitropous/campylotropous, circinotropous, unitegmic, bitegmic; Tenuinucellate and crassinucellate; Special structures: Endothelium, obturator, hypostase, caruncle and aril (permanent slides/specimens/photographs).

4. Female gametophyte through permanent slides/ photographs: Types, ultrastructure of mature egg apparatus.

5. Intra-ovarian pollination; Test tube pollination through photographs.

6. Endosperm: Dissections of developing seeds for endosperm with free-nuclear haustoria.

7. Embryogenesis: Study of development of dicot embryo through permanent slides; dissection of developing seeds for embryos at various developmental stages; Study of suspensor through electron micrographs.

Suggested Readings:

- Bhojwani, S.S. and Bhatnagar, S.P. (2011). The Embryology of Angiosperms, Vikas Publishing House. Delhi. 5th edition.
- Shivanna, K.R. (2003). Pollen Biology and Biotechnology. Oxford and IBH Publishing Co. Pvt. Ltd. Delhi.
- Raghavan, V. (2000). Developmental Biology of Flowering plants, Springer, Netherlands.
- Johri, B.M. l (1984). Embryology of Angiosperms, Springer-Verlag, Netherlands.

CC-12: Plant Physiology **Credits 06**

C12T: Plant Physiology **Credits 04**

Course Contents:

Unit 1: Plant-water relations
Water Potential and its components, water absorption by roots, aquaporins, pathway of water movement, symplast, apoplast, transmembrane pathways, root pressure, guttation. Ascent of sap – cohesion-tension theory.Transpiration and factors affecting transpiration, antitranspirants, mechanism of stomatal movement.

Unit 2: Mineral nutrition
Essential and beneficial elements, macro and micronutrients, methods of study and use of nutrient solutions, criteria for essentiality, mineral deficiency symptoms, roles of essential elements, chelating agents.

Unit 3: Nutrient Uptake
Soil as a nutrient reservoir, transport of ions across cell membrane, passive absorption, electrochemical gradient, facilitated diffusion, active absorption, role of ATP, carrier systems, proton ATPase pump and ion flux, uniport, co-transport, symport, antiport.

Unit 4: Translocation in the phloem
Experimental evidence in support of phloem as the site of sugar translocation. Pressure–Flow Model; Phloem loading and unloading; Source–sink relationship.

Unit 5: Plant growth regulators
Discovery, chemical nature (basic structure), bioassay and physiological roles of Auxin, Gibberellins, Cytokinin, Abscisic acid, Ethylene, Brassinosteroids and Jasmonic acid.

Unit 6: Physiology of flowering
Photoperiodism, flowering stimulus, florigen concept, vernalization, seed dormancy.

Unit 7: Phytochrome , crytochromes and phototropins
Discovery, chemical nature, role in photomorphogenesis, low energy responses (LER) and high irradiance responses (HIR), mode of action.

C12P: Plant Physiology **Credits 02**

Practical

1. Determination of osmotic potential of plant cell sap by plasmolytic method.
2. Determination of water potential of given tissue (potato tuber) by weight method.
3. Study of the effect of wind velocity and light on the rate of transpiration in excised twig/leaf.
4. Calculation of stomatal index and stomatal frequency from the two surfaces of leaves of a mesophyte and xerophyte.
5. To calculate the area of an open stoma and percentage of leaf area open through stomata in a mesophyte and xerophyte (both surfaces).
6. To study the phenomenon of seed germination (effect of light).
7. To study the effect of different concentrations of IAA on *Avena* coleoptile elongation (IAA Bioassay).

8. To study the induction of amylase activity in germinating barley grains.

Demonstration experiments

1. To demonstrate suction due to transpiration.
2. Fruit ripening/Rooting from cuttings (Demonstration).
3. Bolting experiment/*Avena* coleptile bioassay (demonstration).

Suggested Readings:

- Hopkins, W.G. and Huner, A. (2008). Introduction to Plant Physiology. John Wiley and Sons. U.S.A. 4th edition.
- Taiz, L., Zeiger, E., MØller, I.M. and Murphy, A (2015). Plant Physiology and Development. Sinauer Associates Inc. USA. 6th edition.
- Bajracharya D. (1999). Experiments in Plant Physiology-A Laboratory Manual. Narosa Publishing House, New Delhi.

CC-13: Plant Metabolism **Credits 06**

C13T: Plant Metabolism **Credits 04**

Course Contents:

Unit 1: Concept of metabolism

Introduction, anabolic and catabolic pathways, regulation of metabolism, role of regulatory enzymes (allosteric ,covalent modulation and Isozymes).

Unit 2: Carbon assimilation

Historical background, photosynthetic pigments, role of photosynthetic pigments (chlorophylls and accessory pigments), antenna molecules and reaction centres, photochemical reactions, photosynthetic electron transport, PSI, PSII, Q cycle, CO_2 reduction, photorespiration, C4 pathways; Crassulacean acid metabolism; Factors affecting CO_2 reduction.

Unit 3: Carbohydrate metabolism

Synthesis and catabolism of sucrose and starch.

Unit 4: Carbon Oxidation

Glycolysis, fate of pyruvate, regulation of glycolysis, oxidative pentose phosphate pathway, oxidative decarboxylation of pyruvate, regulation of PDH, NADH shuttle; TCA cycle,amphibolic role, anaplerotic reactions, regulation of the cycle, mitochondrial electron transport, oxidative phosphorylation, cyanide-resistant respiration, factors affecting respiration.

Unit 5: ATP-Synthesis

Mechanism of ATP synthesis, substrate level phosphorylation, chemiosmotic mechanism (oxidative and photophosphorylation), ATP synthase, Boyers conformational model, Racker's experiment, Jagendorf's experiment; role of uncouplers.

Unit 6: Lipid metabolism

Synthesis and breakdown of triglycerides, β-oxidation, glyoxylate cycle, gluconeogenesis and its role in mobilisation of lipids during seed germination, α oxidation.

Unit 7: Nitrogen metabolism
Nitrate assimilation, biological nitrogen fixation (examples of legumes and non-legumes); Physiology and biochemistry of nitrogen fixation; Ammonia assimilation and transamination.

Unit 8: Mechanisms of signal transduction
Receptor-ligand interactions; Second messenger concept, Calcium calmodulin, MAP kinase cascade.

C13P: Plant Metabolism **Credits 02**

Practical

1. Chemical separation of photosynthetic pigments.
2. Experimental demonstration of Hill's reaction.
3. To study the effect of light intensity on the rate of photosynthesis.
4. Effect of carbon dioxide on the rate of photosynthesis.
5. To compare the rate of respiration in different parts of a plant.
6. To demonstrate activity of Nitrate reductase in germinating leaves of different plant sources.
7. To study the activity of lipases in germinating oilseeds and demonstrate mobilization of lipids
1. during germination.
8. Demonstration of fluorescence by isolated chlorophyll pigments.
9. Demonstration of absorption spectrum of photosynthetic pigments.

Suggested Readings

- Hopkins, W.G. and Huner, A. (2008). Introduction to Plant Physiology. John Wiley and Sons. U.S.A. 4th edition.
- Taiz, L., Zeiger, E., MØller, I.M. and Murphy, A (2015). Plant Physiology and Development. Sinauer Associates Inc. USA. 6th edition.
- Harborne, J.B. (1973). Phytochemical Methods. John Wiley & Sons. New York.

CC-14: Plant Biotechnology **Credits 06**

C14T: Plant Biotechnology **Credits 04**

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Course Contents:

Unit -1: Plant Tissue Culture
Historical perspective; Composition of media; Nutrient and hormone requirements (role of vitamins and hormones); Totipotency; Organogenesis; Embryogenesis (somatic and zygotic); Protoplast isolation, culture and fusion; Tissue culture applications (micropropagation, androgenesis, virus elimination, secondary metabolite production, haploids, triploids and hybrids; Cryopreservation; Germplasm Conservation).

Unit- 2: Recombinant DNA technology

Restriction Endonucleases (History, Types I-IV, biological role and application); Restriction

Mapping (Linear and Circular); Cloning Vectors: Prokaryotic (pUC 18 and pUC19, pBR322, Ti plasmid, BAC); Lambda phage, M13 phagemid, Cosmid, Shuttle vector; Eukaryotic Vectors (YAC).

Unit- 3:Gene Cloning

Recombinant DNA, Bacterial Transformation and selection of recombinant clones, PCRmediated gene cloning; Gene Construct; construction of genomic and cDNA libraries, screening DNA libraries to obtain gene of interest by genetic selection; complementation, colony hybridization; PCR

Unit- 4: Methods of gene transfer

Agrobacterium-mediated, Direct gene transfer by Electroporation, Microinjection, Microprojectile bombardment; Selection of transgenics– selectable marker and reporter genes (Luciferase, GUS, GFP).

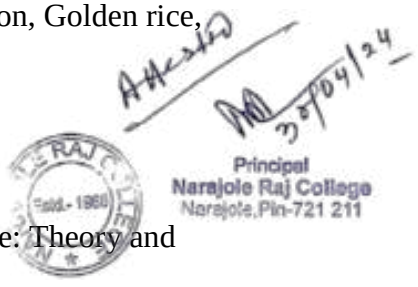
Unit - 5: Applications of Biotechnology

Pest resistant (Bt-cotton); herbicide resistant plants (RoundUp Ready soybean); Transgenic crops with improved quality traits (Flavr Savr tomato, Golden rice); Improved horticultural varieties (Moondust carnations); Role of transgenics in bioremediation (Superbug); edible vaccines; Industrial enzymes (Aspergillase, Protease, Lipase); Gentically Engineered Products–Human Growth Hormone; Humulin; Biosafety concerns.

C14P: Plant Biotechnology **Credits 02**

Practical

1. (a) Preparation of MS medium.
   (b) Demonstration of *in vitro* sterilization and inoculation methods using leaf and nodal explants of tobacco, *Datura*, *Brassica* etc.
2. Study of anther, embryo and endosperm culture, micropropagation, somatic embryogenesis & artificial seeds through photographs.
3. Isolation of protoplasts.
4. Construction of restriction map of circular and linear DNA from the data provided.
5. Study of methods of gene transfer through photographs: *Agrobacterium*-mediated, direct gene
6. transfer by electroporation, microinjection, microprojectile bombardment.
7. Study of steps of genetic engineering for production of Bt cotton, Golden rice, Flavr Savr tomato through photographs.
8. Isolation of plasmid DNA.
9. Restriction digestion and gel electrophoresis of plasmid DNA.



Suggested Readings:

- Bhojwani, S.S. and Razdan, M.K., (1996). Plant Tissue Culture: Theory and Practice. Elsevier Science Amsterdam. The Netherlands.
- Glick, B.R., Pasternak, J.J. (2003). Molecular Biotechnology- Principles and Applications of recombinant DNA. ASM Press, Washington.

- Bhojwani, S.S. and Bhatnagar, S.P. (2011). The Embryology of Angiosperms. Vikas Publication House Pvt. Ltd., New Delhi. 5th edition.
- Snustad, D.P. and Simmons, M.J. (2010). Principles of Genetics. John Wiley and Sons, U.K. 5th edition.
- Stewart, C.N. Jr. (2008). Plant Biotechnology & Genetics: Principles, Techniques and Applications. John Wiley & Sons Inc. U.S.A.

Discipline Specific Electives (DSE)

DSE-1: Natural Resource Management **Credits 06**

DSE1T: Natural Resource Management **Credits 04**

Course Contents:

Unit- 1: Natural resources : Definition and types.

Unit- 2: Sustainable utilization : Concept, approaches (economic, ecological and socio-cultural).

Unit- 3: Land : Utilization (agricultural, pastoral, horticultural, silvicultural); Soil degradation and management.

Unit- 4: Water
Fresh water (rivers, lakes, groundwater, aquifers, watershed); Marine; Estuarine; Wetlands; Threats and management strategies.

Unit- 5: Biological Resources
Biodiversity-definition and types; Significance; Threats; Management strategies; Bio-prospecting; IPR; CBD; National Biodiversity Action Plan).

Unit - 6: Forests
Definition, Cover and its significance (with special reference to India); Major and minor Forest products; Depletion; Management.

Unit- 7: Energy : Renewable and non-renewable sources of energy

Unit- 8: Contemporary practices in resource management
EIA, GIS, Participatory Resource Appraisal, Ecological Footprint with emphasis on carbon footprint, Resource Accounting; Waste management.

Unit- 9: National and international efforts in resource management and conservation

DSE-1P: Natural Resource Management **Credits 02**

Practical

1. Estimation of solid waste generated by a domestic system (biodegradable and nonbiodegradable) and its impact on land degradation.
2. Collection of data on forest cover of specific area.

3. Measurement of dominance of woody species by DBH (diameter at breast height) method.
4. Calculation and analysis of ecological footprint.
5. Ecological modeling.

Suggested Readings:

- Vasudevan, N. (2006). Essentials of Environmental Science. Narosa Publishing House, New Delhi.
- Singh, J. S., Singh, S.P. and Gupta, S. (2006). Ecology, Environment and Resource Conservation. Anamaya Publications, New Delhi.
- 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

DSE-1: Biostatistics **Credits 06**

DSE1T: Biostatistics **Credits 04**

Course Contents:

Unit 1: Biostatistics

Definition - statistical methods - basic principles. Variables - measurements, functions, limitations and uses of statistics.

Unit 2: Collection of data primary and secondary

Types and methods of data collection procedures - merits and demerits. Classification - tabulation and presentation of data - sampling methods.

Unit 3:Measures of central tendency

Mean, median, mode, geometric mean - merits & demerits. Measures of dispersion - range, standard deviation, mean deviation, quartile deviation - merits and demerits; Co-efficient of variations.

Unit 4: Correlation

Types and methods of correlation, regression, simple regression equation, fitting prediction, similarities and dissimilarities of correlation and regression

Unit 5: Statistical inference

Hypothesis - simple hypothesis - student 't' test - chi square test.

DSE1P: Biostatistics **Credits 02**

Practical

1. Calculation of mean, standard deviation and standard error
2. Calculation of correlation coefficient values and finding out the probability
3. Calculation of 'F' value and finding out the probability value for the F value.

Suggested Readings

- Biostatistic, Danniel, W.W., 1987.New York, John Wiley Sons.

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- An introduction to Biostatistics, 3rd edition, Sundarrao, P.S.S and Richards, J. Christian Medical College, Vellore
- Statistical Analysis of epidemiological data, Selvin, S., 1991. New York University Press. Statistics for Biology, Boston, Bishop, O.N. Houghton, Mifflin.
- The Principles of scientific research, Freedman, P. New York, Pergamon Press.
- Statistics for Biologists, Campbell, R.C., 1998.Cambridge University Press.

DSE-2: Plant Breeding **Credits 06**

DSE2T: Plant Breeding **Credits 04**

Course Contents:

Unit -1: Plant Breeding

Introduction and objectives. Breeding systems: modes of reproduction in crop plants. Important achievements and undesirable consequences of plant breeding.

Unit -2: Methods of Crop improvement

Introduction: Centres of origin and domestication of crop plants, plant genetic resources; Acclimatization; Selection methods: For self pollinated, cross pollinated and vegetatively propagated plants; Hybridization: For self, cross and vegetatively propagated plants – Procedure, advantages and limitations.

Unit -3: Quantitative inheritance

Concept, mechanism, examples of inheritance of Kernel colour in wheat, Skin colour in human beings. Monogenic vs polygenic Inheritance.

Unit - 4: Inbreeding depression and heterosis

History, genetic basis of inbreeding depression and heterosis : Applications.

Unit - 5: Crop improvement and breeding

Role of mutations; Polyploidy; Distant hybridization and role of biotechnology in crop improvement.

DSE2P: Plant Breeding (Practical) **Credits 02**

Practical

1. Identification of offspring's having parental genotypes and recombinant genotypes, based on combination of morphological attributes in a dihybrid cross.

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2. Processes of emaculation –

a) By applying higher temperature,
b) By amputing anthers.

3. Determination of genetic inheritance of characters in monohybrid and dihybrid crosses by Chi-square test (including Mendelian ratios and the ratios of gene interactions e.g. Dominant Epistasis, Supplementary gene action, Polymeric Gene action, Complementary Gene action, Inhibitory Gene action and Duplicating Gene action.

4. Identification of fertile and sterile pollens with carmine stain and TTC test.

Suggested Readings:

1. Singh, B.D. (2005). Plant Breeding: Principles and Methods. Kalyani Publishers. 7th edition.
2. Chaudhari, H.K. (1984). Elementary Principles of Plant Breeding. Oxford-IBH. 2nd edition.
3. Acquaah, G. (2007). Principles of Plant Genetics & Breeding. Blackwell Publishing.

Or

DSE-2: Stress Biology **Credits 06**

DSE2T: Stress Biology **Credits 04**

Course Contents:

Unit 1: Defining plant stress: Acclimation and adaptation.

Unit 2: Environmental factors: Water stress; Salinity stress, High light stress; Temperature stress; Hypersensitive reaction; Pathogenesis– related (PR) proteins; Systemic acquired resistance; Mediation of insect and disease resistance by jasmonates.

Unit 3: Stress sensing mechanisms in plants: Calcium modulation, Phospholipid signaling

Unit 4: Developmental and physiological mechanisms that protect plants against environmental stress: Adaptation in plants; Changes in root: shoot ratio; Aerenchyna development; Osmotic adjustment; Compatible solute production.

Unit 5: Reactive oxygen species–Production and scavenging mechanisms.

DSE2P: Stress Biology **Credits 02**

Practical

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1. Quantitative estimation of peroxidase activity in the seedlings in the absence and presence of salt stress.
2. Superoxide activity in seedlings in the absence and presence of salt stress.
3. Zymographic analysis of peroxidase.
4. Zymographic analysis of superoxide dismutase activity.
5. Quantitative estimation and zymographic analysis of catalase.
6. Quantitative estimation and zymographic analysis of glutathione reductase.
7. Estimation of superoxide anions.

Suggested Readings:

- Hopkins, W.G. and Huner, A. (2008). Introduction to Plant Physiology. John Wiley and Sons. U.S.A. 4th edition.
- Taiz, L., Zeiger, E., MØller, I.M. and Murphy, A (2015). Plant Physiology and Development. Sinauer Associates Inc. USA. 6th edition.

DSE-3: Industrial and Environmental Microbiology **Credits 06**

DSE-3T: Industrial and Environmental Microbiology **Credits 04**

Course Contents:

Unit 1: Scope of microbes in industry and environment

Unit 2: Bioreactors / Fermenters and fermentation processes

Solid-state and liquid-state (stationary and submerged) fermentations; Batch and continuous fermentations. Components of a typical bioreactor, Types of bioreactors-laboratory, pilotscale and production fermenters; Constantly stirred tank fermenter, tower fermenter, fixed bed and fluidized bed bioreactors and air-lift fermenter.

A visit to any educational institute/ industry to see an industrial fermenter, and other downstream processing operations.

Unit 3: Microbial production of industrial products

Microorganisms involved, media, fermentation conditions, downstream processing and uses; Filtration, centrifugation, cell disruption, solvent extraction, precipitation and ultrafiltration, lyophilization, spray drying; Hands on microbial fermentations for the production and estimation (qualitative and quantitative) of Enzyme: amylase or lipase activity, Organic acid (citric acid or glutamic acid), alcohol (Ethanol) and antibiotic (Penicillin)

Unit 4: Microbial enzymes of industrial interest and enzyme immobilization

Microorganisms for industrial applications_and hands on screening microorganisms for casein hydrolysis; starch hydrolysis; cellulose hydrolysis. Methods of immobilization, advantages and applications of immobilization, large scale applications of immobilized enzymes (glucose isomerase and penicillin acylase**).**

Unit 5: Microbes and quality of environment.
Distribution of microbes in air; Isolation of microorganisms from soil, air and water.

Unit 6: Microbial flora of water.

Water pollution, role of microbes in sewage and domestic waste water treatment systems. Determination of BOD, COD, TDS and TOC of water samples; Microorganisms as indicators of water quality, check coliform and fecal coliform in water samples.

Unit 7: Microbes in agriculture and remediation of contaminated soils.

Biological fixation; Mycorrhizae; Bioremediation of contaminated soils. Isolation of root nodulating bacteria, arbuscular mycorrhizal colonization in plant roots.

DSE-3P: Industrial and Environmental Microbiology Credits 02

Practical

1. Principles and functioning of instruments in microbiology laboratory
2. Hands on sterilization techniques and preparation of culture media.

Suggested Readings:

- Pelzar, M.J. Jr., Chen E.C. S., Krieg, N.R. (2010). Microbiology: An application based approach. Tata McGraw Hill Education Pvt. Ltd., Delhi.
- Tortora, G.J., Funke, B.R., Case. C.L. (2007). Microbiology. Pearson Benjamin Cummings, San Francisco, U.S.A. 9th edition.

OR

DSE-3: Bioinformatics Credits 06

DSE3T: Bioinformatics Credits 04

Course Contents:

Unit 1. Introduction to Bioinformatics
Introduction, Branches of Bioinformatics, Aim, Scope and Research areas of Bioinformatics.

Unit 2. Databases in Bioinformatics
Introduction, Biological Databases, Classification format of Biological Databases, Biological Database Retrieval System.

Unit 3. Biological Sequence Databases
National Center for Biotechnology Information (NCBI): Tools and Databases of NCBI, Database Retrieval Tool, Sequence Submission to NCBI, Basic local alignment search tool (BLAST), Nucleotide Database, Protein Database, Gene Expression Database. EMBL Nucleotide Sequence Database (EMBL-Bank): Introduction, Sequence Retrieval, Sequence Submission to EMBL, Sequence analysis tools. DNA Data Bank of Japan (DDBJ): Introduction, Resources at DDBJ, Data Submission at DDBJ. Protein

Information Resource (PIR): About PIR, Resources of PIR, Databases of PIR, Data Retrieval in PIR. Swiss-Prot: Introduction and Salient Features.

Unit 4. Sequence Alignments
Introduction, Concept of Alignment, Multiple Sequence Alignment (MSA), MSA by CLUSTALW, Scoring Matrices, Percent Accepted Mutation (PAM), Blocks of Amino Acid Substitution Matrix (BLOSUM).

Unit 5. Molecular Phylogeny

Methods of Phylogeny, Software for Phylogenetic Analyses, Consistency of Molecular Phylogenetic Prediction.

Unit 6. Applications of Bioinformatics
Structural Bioinformatics in Drug Discovery, Quantitative structure-activity relationship (QSAR) techniques in Drug Design, Microbial genome applications, Crop improvement

DSE3P: Bioinformatics **Credits 02**

Practical

1. Nucleic acid and protein databases.
2. Sequence retrieval from databases.
3. Sequence alignment.
4. Sequence homology and Gene annotation.
5. Construction of phylogenetic tree.

Suggested Readings:

- Ghosh Z. and Bibekanand M. (2008) Bioinformatics: Principles and Applications. Oxford University Press.
- Pevsner J. (2009) Bioinformatics and Functional Genomics. II Edition. Wiley-Blackwell.
- Campbell A. M., Heyer L. J. (2006) Discovering Genomics, Proteomics and Bioinformatics. II Edition. Benjamin Cummings.

DSE-4: Analytical Techniques in Plant Sciences **Credits 06**

DSE4T: Analytical Techniques in Plant Sciences **Credits 04**

Course Contents:

Unit- 1: Imaging and related techniques
Principles of microscopy; Light microscopy; Fluorescence microscopy; Confocal microscopy; Use of fluorochromes: (a) Flow cytometry (FACS); (b) Applications of fluorescence microscopy: Chromosome banding, FISH, chromosome painting; Transmission and Scanning electron microscopy – sample preparation for electron microscopy, cryofixation, negative staining, shadow casting, freeze fracture, freeze etching.

Unit- 2: Cell fractionation

Centrifugation: Differential and density gradient centrifugation, sucrose density gradient, CsCl2gradient, analytical centrifugation, ultracentrifugation, marker enzymes.

Unit- 3: Radioisotopes
Use in biological research, auto-radiography, pulse chase experiment.

Unit- 4: Spectrophotometry
Principle and its application in biological research.

Unit- 5: Chromatography
Principle; Paper chromatography; Column chromatography, TLC, GLC, HPLC, Ion-exchange chromatography; Molecular sieve chromatography; Affinity chromatography.

Unit- 6: Characterization of proteins and nucleic acids
Mass spectrometry; X-ray diffraction; X-ray crystallography; Characterization of proteins and nucleic acids; Electrophoresis: AGE, PAGE, SDS-PAGE

Unit- 7: Biostatistics
Statistics, data, population, samples, parameters; Representation of Data: Tabular, Graphical; Measures of central tendency: Arithmetic mean, mode, median; Measures of dispersion: Range, mean deviation, variation, standard deviation; Chi-square test for goodness of fit.

DSE4P: Analytical Techniques in Plant Sciences **Credits 02**

Practical

1. Study of Blotting techniques: Southern, Northern and Western, DNA fingerprinting, DNA sequencing, PCR through photographs.
2. Demonstration of ELISA.
3. To separate nitrogenous bases by paper chromatography.
4. To separate sugars by thin layer chromatography.
5. Isolation of chloroplasts by differential centrifugation.
6. To separate chloroplast pigments by column chromatography.
7. To estimate protein concentration through Lowry's methods.
8. To separate proteins using PAGE.
9. To separation DNA (marker) using AGE.
10. Study of different microscopic techniques using photographs/micrographs (freeze fracture, freeze etching, negative staining, positive staining, fluorescence and FISH).
11. Preparation of permanent slides (double staining).

Suggested Readings:

- Plummer, D.T. (1996). An Introduction to Practical Biochemistry. Tata McGraw-Hill Publishing Co. Ltd. New Delhi. 3rd edition.
- Ruzin, S.E. (1999). Plant Microtechnique and Microscopy, Oxford University Press, New York. U.S.A.
- Ausubel, F., Brent, R., Kingston, R. E., Moore, D.D., Seidman, J.G., Smith, J.A., Struhl, K. (1995). Short Protocols in Molecular Biology. John Wiley & Sons, 3rd edition.

- Zar, J.H. (2012). Biostatistical Analysis. Pearson Publication. U.S.A. 4th edition.

OR

DSE-4: Research Methodology **Credits 06**

DSE4T: Research Methodology **Credits 04**

Course Contents:

Unit 1: Basic concepts of research

Research-definition and types of research (Descriptive vs analytical; applied vs fundamental; quantitative vs qualitative; conceptual vs emperical).Research methods vs methodology. Literature-review and its consolidation; Library research; field research; laboratory research.

Unit 2: General laboratory practices

Common calculations in botany laboratories. Understanding the details on the label of reagent bottles. Molarity and normality of common acids and bases.Preparation of solutions. Dilutions. Percentage solutions. Molar, molal and normal solutions.Technique of handling micropipettes; Knowledge about common toxic chemicals and safety measures in their handling.

Unit 3: Data collection and documentation of observations

Maintaining a laboratory record; Tabulation and generation of graphs. Imaging of Tissue specimens and application of scale bars. The art of field photography.

Unit 4: Overview of Biological Problems

History; Key biology research areas, Model organisms in biology (A Brief overview): Genetics, Physiology, Biochemistry, Molecular Biology, Cell Biology, Genomics, Proteomics Transcriptional regulatory network.

Unit 5: **Methods to study plant cell/tissue structure**

Whole mounts, peel mounts, squash preparations, clearing, maceration and sectioning; Tissue preparation: living vs fixed, physical vs chemical fixation, coagulating fixatives, non-coagulant fixatives; tissue dehydration using graded solvent series; Paraffin and plastic infiltration; Preparation of thin and ultrathin sections.

Unit 6: Plant microtechniques

Staining procedures, classification and chemistry of stains. Staining equipment. Reactive dyes and fluorochromes (including genetically engineered protein labeling with GFP and other tags). Cytogenetic techniques with squashed plant materials.

Unit 7: The art of scientific writing and its presentation

Numbers, units, abbreviations and nomenclature used in scientific writing. Writing references. Powerpoint presentation. Poster presentation. Scientific writing and ethics, Introduction to copyright-academic misconduct/plagiarism.

DSE4P: Research Methodology **Credits 02**

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Practical

1. Experiments based on chemical calculations.
2. Plant microtechnique experiments.
3. The art of imaging of samples through microphotography and field photography.
4. Poster presentation on defined topics.
5. Technical writing on topics assigned.

Suggested Readings:

- Dawson, C. (2002). Practical research methods. UBS Publishers, New Delhi.
- Stapleton, P., Yondeowei, A., Mukanyange, J., Houten, H. (1995). Scientific writing for agricultural research scientists – a training reference manual. West Africa Rice Development Association, Hong Kong.
- Ruzin, S.E. (1999). Plant microtechnique and microscopy. Oxford University Press, New York, U.S.A.

Skill Enhancement Course (SEC)

SEC-1: Biofertilizers **Credits 02**

SEC1T: Biofertilizers **Credits 02**

Course Contents:

Unit- 1: General account about the microbes used as biofertilizer – Rhizobium – isolation, identification, mass multiplication, carrier based inoculants, Actinorrhizal symbiosis.

Unit- 2: *Azospirillum:* isolation and mass multiplication – carrier based inoculant, associative effect of different microorganisms.*Azotobacter*: classification, characteristics – crop response to *Azotobacter* inoculum, maintenance and mass multiplication.

Unit- 3: Cyanobacteria (blue green algae), *Azolla* and *Anabaena azollae* association, nitrogen fixation, factors affecting growth, blue green algae and *Azolla* in rice cultivation.

Unit- 4: Mycorrhizal association, types of mycorrhizal association, taxonomy, occurrence and distribution, phosphorus nutrition, growth and yield – colonization of VAM – isolation and inoculum production of VAM, and its influence on growth and yield of crop plants.

Unit-5: Organic farming – Green manuring and organic fertilizers, Recycling of biodegradable municipal, agricultural and Industrial wastes – biocompost making methods, types and method of vermicomposting – field Application.

Suggested Readings:

- Dubey, R.C., 2005 A Text book of Biotechnology S.Chand & Co, New Delhi.
- Kumaresan, V. 2005, Biotechnology, Saras Publications, New Delhi.
- John Jothi Prakash, E. 2004. Outlines of Plant Biotechnology. Emkay _Publication, New Delhi.

- Sathe, T.V. 2004 Vermiculture and Organic Farming. Daya publishers.
- Subha Rao, N.S. 2000, Soil Microbiology, Oxford & IBH Publishers, New _Delhi.
- Vayas,S.C, Vayas, S. and Modi, H.A. 1998 Bio-fertilizers and organic _Farming Akta Prakashan, Nadiad

OR

SEC- 1: Floriculture **Credits 02**

SEC1T: Floriculture

Course Contents:

Unit 1: Introduction: History of gardening; Importance and scope of floriculture and landscape gardening.

Unit 2: Nursery Management and Routine Garden Operations: Sexual and vegetative methods of propagation; Soil sterilization; Seed sowing; Pricking; Planting and transplanting; Shading; Stopping or pinching; Defoliation; Wintering; Mulching; Topiary; Role of plant growth regulators.

Unit 3: Ornamental Plants: Flowering annuals; Herbaceous perennials; Divine vines; Shade and ornamental trees; Ornamental bulbous and foliage plants; Cacti and succulents; Palms and Cycads; Ferns and Selaginellas; Cultivation of plants in pots; Indoor gardening; Bonsai.

Unit 4: Principles of Garden Designs: English, Italian, French, Persian, Mughal and Japanese gardens; Features of a garden (Garden wall, Fencing, Steps, Hedge, Edging, Lawn, Flower beds, Shrubbery, Borders, Water garden. Some Famous gardens of India.

Unit 5: Landscaping Places of Public Importance: Landscaping highways and Educational institutions.

Unit 6: Commercial Floriculture: Factors affecting flower production; Production and packaging of cut flowers; Flower arrangements; Methods to prolong vase life; Cultivation of Important cut flowers (Carnation, Aster, Chrysanthemum, Dahlia, Gerbera, Gladiolous, Marigold,Rose, Lilium, Orchids).

Unit 7: Diseases and Pests of Ornamental Plants.

Suggested Readings:

- Randhawa, G.S. and Mukhopadhyay, A. 1986. Floriculture in India. Allied Publishers.

SEC-2: Medicinal Botany **Credits 02**

SEC-2T: Medicinal Botany

Course Contents:

Unit 1:
History, Scope and Importance of Medicinal Plants. Indigenous Medicinal Sciences; Definition and Scope - **Ayurveda**: History, origin, panchamahabhutas, saptadhatu and tridosha concepts, Rasayana, plants used in ayurvedic treatments, **Siddha:** Origin of Siddha medicinal systems, Basis of Siddha system, plants used in Siddha medicine. **Unani**: History, concept: Umoor-e- tabiya, tumors treatments/ therapy, polyherbal formulations.

Unit 2:
Conservation of endangered and endemic medicinal plants. Definition: endemic and endangered medicinal plants, Red list criteria; In situ conservation: Biosphere reserves, sacred groves, National Parks; Ex situ conservation: Botanic Gardens, Ethnomedicinal plant Gardens. Propagation of Medicinal Plants: Objectives of the nursery, its classification, important components of a nursery, sowing, pricking, use of green house for nursery production, propagation through cuttings, layering, grafting and budding.

Unit 3:
Ethnobotany and Folk medicines. Definition; Ethnobotany in India: Methods to study ethnobotany; Applications of Ethnobotany: National interacts, Palaeo-ethnobotany. Folk medicines of ethnobotany, ethnomedicine, ethnoecology, ethnic communities of India. Application of natural products to certain diseases- Jaundice, cardiac, infertility, diabetics, Blood pressure and skin diseases.

Suggested Readings:

- Trivedi P C, 2006. Medicinal Plants: Ethnobotanical Approach, Agrobios, India.
- Purohit and Vyas, 2008. Medicinal Plant Cultivation: A Scientific Approach, 2nd edn. Agrobios, India.

Or

SEC-2: Mushroom Culture Technology **Credits 02**

SEC-2T: Mushroom Culture Technology

Course Contents:

Unit 1:
Introduction, history. Nutritional and medicinal value of edible mushrooms; Poisonous mushrooms.Types of edible mushrooms available in India - *Volvariella volvacea, Pleurotus citrinopileatus, Agaricus bisporus.*

Unit 2:
Cultivation Technology : Infrastructure: substrates (locally available) Polythene bag, vessels, Inoculation hook, inoculation loop, low cost stove, sieves, culture rack, mushroom unit (Thatched house) water sprayer, tray, small polythene bag. Pure culture: Medium, sterilization, preparation of spawn, multiplication. Mushroom bed preparation - paddy straw, sugarcane trash, maize straw, banana leaves. Factors affecting the mushroom bed preparation - Low cost technology, Composting technology in mushroom production.

Unit 3:
Storage and nutrition: Short-term storage (Refrigeration - upto 24 hours) Long term Storage (canning, pickels, papads), drying, storage in saltsolutions. Nutrition - Proteins - amino acids, mineral elements nutrition - Carbohydrates, Crude fibre content - Vitamins.

Unit 4:
Food Preparation:Types of foods prepared from mushroom.Research Centres - National level and Regional level.Cost benefit ratio - Marketing in India and abroad, Export Value.

Suggested Readings:

- Marimuthu, T. Krishnamoorthy, A.S. Sivaprakasam, K. and Jayarajan. R (1991) Oyster Mushrooms, Department of Plant Pathology, Tamil Nadu Agricultural University, Coimbatore.
- Swaminathan, M. (1990) Food and Nutrition. Bappco, The Bangalore Printing and Publishing Co. Ltd., No. 88, Mysore Road, Bangalore - 560018.
- Tewari, Pankaj Kapoor, S.C., (1988). Mushroom cultivation, Mittal Publications, Delhi.
- Nita Bahl (1984-1988) Hand book of Mushrooms, II Edition, Vol. I & Vol. II.

Generic Elective (GE)
[Interdisciplinary for other department]

GE-1: Biodiversity (Microbes, Algae, Fungi and Archegoniate) Credits 06

GE1T: Biodiversity (Microbes, Algae, Fungi and Archegoniate) Credits 04

Course Contents:

Unit 1: Microbes
Viruses – Discovery, general structure, replication (general account), DNA virus (T-phage); Lytic and lysogenic cycle, RNA virus (TMV); Economic importance; Bacteria – Discovery, General characteristics and cell structure; Reproduction – vegetative, asexual and recombination (conjugation, transformation and transduction); Economic importance.

Unit 2: Algae
General characteristics; Ecology and distribution; Range of thallus organization and reproduction; Classification of algae; Morphology and life-cycles of the following: *Nostoc*, *Chlamydomonas*, *Oedogonium*, *Vaucheria*, *Fucus*, *Polysiphonia*. Economic importance of algae.

Unit 3: Fungi
Introduction- General characteristics, ecology and significance, range of thallus organization,cell wall composition, nutrition, reproduction and classification; True Fungi-General characteristics, ecology and significance, life cycle of *Rhizopus* (Zygomycota) *Penicillium*,*Alternaria* (Ascomycota), *Puccinia, Agaricus* (Basidiomycota); Symbiotic

Associations-Lichens:General account, reproduction and significance; Mycorrhiza: ectomycorrhiza and endomycorrhiza and their significance.

Unit 4: Introduction to Archegoniate
Unifying features of archegoniates, Transition to land habit, Alternation of generations.

Unit 5: Bryophytes
General characteristics, adaptations to land habit, Classification, Range of thallus organization.Classification (up to family), morphology, anatomy and reproduction of *Marchantia* and *Funaria*.(Developmental details not to be included).Ecology and economic importance of bryophytes with special mention of *Sphagnum*.

Unit 6: Pteridophytes
General characteristics, classification, Early land plants (*Cooksonia* and *Rhynia*). Classification (up to family), morphology, anatomy and reproduction of *Selaginella, Equisetum* and *Pteris*.(Developmental details not to be included).Heterospory and seed habit, stellar evolution. Ecological and economical importance of Pteridophytes.

Unit 4: Gymnosperms
General characteristics; Classification (up to family), morphology, anatomy and reproduction of *Cycas* and *Pinus* (Developmental details not to be included). Ecological and economical importance.

GE1P: Biodiversity (Microbes, Algae, Fungi and Archegoniate) (Practical) Credits 02

Practical:

1. EMs/Models of viruses – T-Phage and TMV, Line drawing/Photograph of Lytic and Lysogenic Cycle.

1. Types of Bacteria from temporary/permanent slides/photographs; EM bacterium; Binary Fission; Conjugation; Structure of root nodule.

2. Gram staining.

3. Study of vegetative and reproductive structures of *Nostoc, Chlamydomonas* (electron micrographs), *Oedogonium, Vaucheria, Fucus* and Polysiphonia* through temporary preparations and permanent slides. (* *Fucus* - Specimen and permanent slides).

4. *Rhizopus and Penicillium*: Asexual stage from temporary mounts and sexual Structures through permanent slides.

5. *Alternaria:* Specimens/photographs and tease mounts.

6. *Puccinia*: Herbarium specimens of Black Stem Rust of Wheat and infected Barberryleaves; section/tease mounts of spores on Wheat and permanent slides of both the hosts.

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7. *Agaricus*: Specimens of button stage and full grown mushroom; Sectioning of gills of *Agaricus*.
8. Lichens: Study of growth forms of lichens (crustose, foliose and fruticose)

9. Mycorrhiza: ecto mycorrhiza and endo mycorrhiza (Photographs)

10. *Marchantia*- morphology of thallus, w.m. rhizoids and scales, v.s. thallus through gemmacup, w.m. gemmae (all temporary slides), v.s. antheridiophore, archegoniophore, l.s. sporophyte (all permanent slides).

11. *Funaria*- morphology, w.m. leaf, rhizoids, operculum, peristome, annulus, spores (temporary slides); permanent slides showing antheridial and archegonial heads, l.s. capsule and protonema.
12. *Selaginella*- morphology, w.m. leaf with ligule, t.s. stem, w.m. strobilus, w.m.microsporophyll and megasporophyll (temporary slides), l.s. strobilus (permanent slide).
14. *Equisetum*- morphology, t.s. internode, l.s. strobilus, t.s. strobilus, w.m. sporangiophore,w.m. spores (wet and dry)(temporary slides); t.s rhizome (permanent slide).
13. Pteris- morphology, t.s. rachis, v.s. sporophyll, w.m. sporangium, w.m. spores (temporary slides), t.s. rhizome, w.m. prothallus with sex organs and young sporophyte (permanent slide).
14. *Cycas*- morphology (coralloid roots, bulbil, leaf), t.s. coralloid root, t.s. rachis, v.s. leaflet,v.s. micro sporophyll, w.m. spores (temporary slides), l.s. ovule, t.s. root (permanent slide).

15. *Pinus*- morphology (long and dwarf shoots, w.m. dwarf shoot, male and female), w.m.dwarf shoot, t.s. needle, t.s. stem, l.s./t.s. male cone, w.m. microsporophyll, w.m. microspores (temporary slides), l.s. female cone, t.l.s. &r.l.s. stem (permanent slide).

Suggested Readings:

- Kumar, H.D. (1999). Introductory Phycology. Affiliated East-West. Press Pvt. Ltd. Delhi. 2nd edition.
- Tortora, G.J., Funke, B.R., Case, C.L. (2010). Microbiology: An Introduction, Pearson Benjamin Cummings, U.S.A. 10th edition.
- Sethi, I.K. and Walia, S.K. (2011). Text book of Fungi & Their Allies, MacMillan Publishers Pvt. Ltd., Delhi.
- Alexopoulos, C.J., Mims, C.W., Blackwell, M. (1996). Introductory Mycology, John Wiley and Sons (Asia), Singapore. 4th edition.
- Raven, P.H., Johnson, G.B., Losos, J.B., Singer, S.R., (2005). Biology. Tata McGraw Hill, Delhi, India.
- Vashishta, P.C., Sinha, A.K., Kumar, A., (2010). Pteridophyta, S. Chand. Delhi, India.
- Bhatnagar, S.P. and Moitra, A. (1996). Gymnosperms. New Age International (P) Ltd Publishers, New Delhi, India.
- Parihar, N.S. (1991). An introduction to Embryophyta. Vol. I, Bryophyta. Central Book Depot, Allahabad.

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GE-2: Plant Ecology and Taxonomy **Credits 06**

GE2T: Plant Ecology and Taxonomy **Credits 04**

Course Contents:

Unit- 1: Introduction

Unit- 2: Ecological factors

Soil: Origin, formation, composition, soil profile. Water: States of water in the environment, precipitation types. Light and temperature: Variation Optimal and limiting factors; Shelford law of tolerance. Adaptation of hydrophytes and xerophytes

Unit -3: Plant communities

Characters; Ecotone and edge effect; Succession; Processes and types

Unit- 4: Ecosystem

Structure; energy flow trophic organisation; Food chains and food webs, Ecological pyramids production and productivity; Bio-geochemical cycling; Cycling of carbon, nitrogen and Phosphorous

Unit- 5: Phytogeography

Principle of Biogeographical zone; Endemism.

Unit- 6: Introduction to plant taxonomy

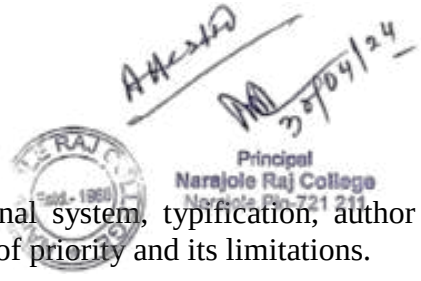
Identification, Classification, Nomenclature.

Unit- 7 : Identification

Functions of Herbarium, important herbaria and botanical gardens of the world and India; Documentation: Flora, Keys: single access and multi-access

Unit 8 : Taxonomic evidences from palynology, cytology, phytochemistry and molecular data.

Unit 9 : Taxonomic hierarchy
Ranks, categories and taxonomic groups



Unit 10: Botanical nomenclature
Principles and rules (ICN); ranks and names; binominal system, typification, author citation, valid publication, rejection of names, principle of priority and its limitations.

Unit 11: Classification

Types of classification-artificial, natural and phylogenetic. Bentham and Hooker (upto series), Engler and Prantl (upto series).

Unit 12: Biometrics, numerical taxonomy and cladistics
Characters; variations; OTUs, character weighting and coding; cluster analysis; phenograms, cladograms (definitions and differences).

GE2P: Practical **Credit 02**

Practical:

1. Study of instruments used to measure microclimatic variables: Soil thermometer, maximum and minimum thermometer, anemometer, psychrometer/hygrometer, rain gauge and lux meter.
2. Determination of pH, and analysis of two soil samples for carbonates, chlorides, nitrates, sulphates, organic matter and base deficiency by rapid field test.
3. Comparison of bulk density, porosity and rate of infiltration of water in soil of three habitats.
4. (a) Study of morphological adaptations of hydrophytes and xerophytes (four each). (b) Study of biotic interactions of the following: Stem parasite (*Cuscuta),* Root parasite (*Orobanche*), Epiphytes, Predation (Insectivorous plants).
5. Determination of minimal quadrat size for the study of herbaceous vegetation in the college campus by species area curve method. (species to be listed)
6. Quantitative analysis of herbaceous vegetation in the college campus for frequency and comparison with Raunkiaer's frequency distribution law
7. Study of vegetative and floral characters of the following families (Description, V.S. flower, section of ovary, floral diagram/s, floral formula/e and systematic position according to Bentham & Hooker's system of classification):Brassicaceae - *Brassica,Alyssum / Iberis;* Asteraceae -*Sonchus/Launaea, Vernonia/Ageratum, Eclipta/Tridax;* Solanaceae -*Solanum nigrum, Withania;* Lamiaceae -*Salvia, Ocimum*; Liliaceae - *Asphodelus / Lilium / Allium.*
8. Mounting of a properly dried and pressed specimen of any wild plant with herbarium label (to be submitted in the record book).

Suggested Readings:

1. Kormondy, E.J. (1996). Concepts of Ecology. Prentice Hall, U.S.A. 4th edition.
2. Sharma, P.D. (2010) Ecology and Environment. Rastogi Publications, Meerut, India. 8th edition.
3. Simpson, M.G. (2006). *Plant Systematics.* Elsevier Academic Press, San Diego, CA, U.S.A.
4. Singh, G. (2012). *Plant Systematics:* Theory and Practice. Oxford & IBH Pvt. Ltd., New Delhi. 3rd edition

GE-3: Economic Botany and Plant Biotechnology **Credits 06**

GE3T: Economic Botany and Plant Biotechnology **Credits 04**

Course Contents:

Unit 1: Origin of Cultivated Plants
Concept of centres of origin, their importance with reference to Vavilov's work.

Unit 2: Cereals

Wheat - Origin, morphology, uses

Unit 3: Legumes

General account with special reference to Gram and soybean

U nit 4: Spices

General account with special reference to clove and black pepper (Botanical name, family, part used morphology and uses)

U nit 5: Beverages

Tea (morphology, processing, uses)

Unit 6: Oils and Fats

General description with special reference to groundnut

Unit 7: Fibre Yielding Plants

General description with special reference to Cotton (Botanical name, family, part used, morphology and uses)

Unit 8: Introduction to biotechnology

Unit 9: Plant tissue culture

Micropropagation ; haploid production through androgenesis and gynogenesis; brief account of embryo and endosperm culture with their applications

Unit 10: Recombinant DNA Techniques

Blotting techniques: Northern, Southern and Western Blotting, DNA Fingerprinting; Molecular DNA markers i.e. RAPD, RFLP, SNPs; DNA sequencing, PCR and Reverse Transcriptase-PCR. Hybridoma and monoclonal antibodies, ELISA and Immuno detection. Molecular diagnosis of human disease, Human gene Therapy.

GE3P: Economic Botany and Plant Biotechnology **Credits 04**

Practical:

1. Study of economically important plants : Wheat, Gram, Soybean, Black pepper, Clove Tea, Cotton, Groundnut through specimens, sections and micro chemical tests

2. Familiarization with basic equipments in tissue culture.
3. Study through photographs: Anther culture, somatic embryogenesis, endosperm and embryo culture; micropropagation.
4. Study of molecular techniques: PCR, Blotting techniques, AGE and PAGE.

Suggested Readings:

- Kochhar, S.L. (2011). Economic Botany in the Tropics, MacMillan Publishers India Ltd., New Delhi. 4th edition.
- Bhojwani, S.S. and Razdan, M.K., (1996). Plant Tissue Culture: Theory and Practice. Elsevier Science Amsterdam. The Netherlands.
- Glick, B.R., Pasternak, J.J. (2003). Molecular Biotechnology- Principles and Applications of recombinant DNA. ASM Press, Washington.

GE-4: Plant Anatomy and Embryology **Credits 06**

GE4T: Plant Anatomy and Embryology **Credits 04**

Course Contents:

Unit 1: Meristematic and permanent tissues
Root and shoot apical meristems; Simple and complex tissues

U nit 2: Organs
Structure of dicot and monocot root stem and leaf.

Unit 3: Secondary Growth
Vascular cambium – structure and function, seasonal activity. Secondary growth in root and stem, Wood (heartwood and sapwood)

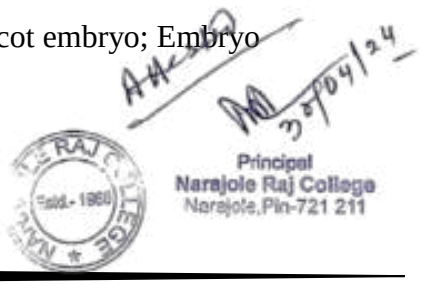
Unit 4: Adaptive and protective systems
Epidermis, cuticle, stomata; General account of adaptations in xerophytes and hydrophytes.

Unit 5: Structural organization of flower
Structure of anther and pollen; Structure and types of ovules; Types of embryo sacs, organization and ultrastructure of mature embryo sac.

Unit 6: Pollination and fertilization
Pollination mechanisms and adaptations; Double fertilization; Seed-structure appendages and dispersal mechanisms.

Unit 7: Embryo and endosperm
Endosperm types, structure and functions; Dicot and monocot embryo; Embryo endosperm relationship

Unit 8: Apomixis and polyembryony
Definition, types and Practical applications



GE4P: Plant Anatomy and Embryology **Credits 02**

Practical:

1. Study of meristems through permanent slides and photographs.
2. Tissues (parenchyma, collenchyma and sclerenchyma); Macerated xylary elements, Phloem (Permanent slides, photographs)
3. Stem: Monocot: *Zea mays;* Dicot: *Helianthus*; Secondary: *Helianthus* (only Permanent slides).
4. Root: Monocot: *Zea mays*; Dicot: *Helianthus*; Secondary: *Helianthus* (only Permanent slides).
5. Leaf: Dicot and Monocot leaf (only Permanent slides).
6. Adaptive anatomy: Xerophyte (*Nerium* leaf); Hydrophyte (*Hydrilla* stem).
7. Structure of anther (young and mature), tapetum (amoeboid and secretory) (Permanent slides).
8. Types of ovules: anatropous, orthotropous, circinotropous, amphitropous/ campylotropous.
9. Female gametophyte: *Polygonum* (monosporic) type of Embryo sac Development (Permanent slides/photographs).
10. Ultrastructure of mature egg apparatus cells through electron micrographs.
11. Pollination types and seed dispersal mechanisms (including appendages, aril, caruncle) (Photographs and specimens).
12. Dissection of embryo/endosperm from developing seeds.
13. Calculation of percentage of germinated pollen in a given medium.

Suggested Readings:

1. Bhojwani, S.S. & Bhatnagar, S.P. (2011). Embryology of Angiosperms. Vikas Publication House Pvt. Ltd. New Delhi. 5th edition.
2. Mauseth, J.D. (1988). Plant Anatomy. The Benjamin/Cummings Publisher, USA.

OR

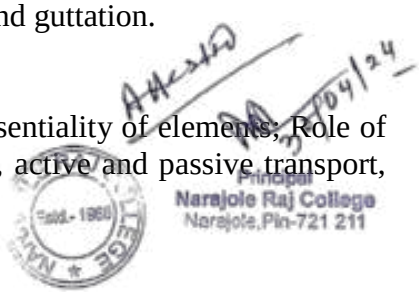
GE-4: Plant Physiology and Metabolism **Credits 06**

GE4T: Plant Physiology and Metabolism **Credits 04**

Course Contents:

Unit 1: Plant-water relations
Importance of water, water potential and its components; Transpiration and its significance; Factors affecting transpiration; Root pressure and guttation.

U nit 2: Mineral nutrition
Essential elements, macro and micronutrients; Criteria of essentiality of elements; Role of essential elements; Transport of ions across cell membrane, active and passive transport, carriers, channels and pumps.



Unit 3: Translocation in phloem.

C omposition of phloem sap, girdling experiment; Pressure flow model; Phloem loading and unloading

Unit 4: Photosynthesis
Photosynthetic Pigments (Chl a, b, xanthophylls, carotene); Photosystem I and II, reaction center, antenna molecules; Electron transport and mechanism of ATP synthesis; C3, C4 and CAM pathways of carbon fixation; Photorespiration.

U nit 5: Respiration
Glycolysis, anaerobic respiration, TCA cycle; Oxidative phosphorylation, Glyoxylate, Oxidative Pentose Phosphate Pathway.

U nit 6: Enzymes
Structure and properties; Mechanism of enzyme catalysis and enzyme inhibition.

U nit 7: Nitrogen metabolism
Biological nitrogen fixation; Nitrate and ammonia assimilation.

Unit 8: Plant growth regulators
Discovery and physiological roles of auxins, gibberellins, cytokinins, ABA, ethylene.

Unit 9: Plant response to light and temperature
Photoperiodism (SDP, LDP, Day neutral plants); Phytochrome (discovery and structure), red and far red light responses on photomorphogenesis; Vernalization.

GE4P: Plant Physiology and Metabolism **Credits 02**

Practical

1. Determination of osmotic potential of plant cell sap by plasmolytic method.
2. To study the effect of two environmental factors (light and wind) on transpiration by excised twig.
3. Calculation of stomatal index and stomatal frequency of a mesophyte and a xerophyte.
4. Demonstration of Hill reaction.
5. Demonstrate the activity of catalase and study the effect of pH and enzyme concentration.
6. To study the effect of light intensity and bicarbonate concentration on O2 evolution in photosynthesis.
7. Comparison of the rate of respiration in any two parts of a plant.
8. Separation of amino acids by paper chromatography.

Demonstration experiments (any four)

1. Bolting.
2. Effect of auxins on rooting.
3. Suction due to transpiration.
4. R.Q.
5. Respiration in roots.

Suggested Readings

- Taiz, L., Zeiger, E., MØller, I.M. and Murphy, A (2015). Plant Physiology and Development. Sinauer Associates Inc. USA. 6th edition.
- Hopkins, W.G., Huner, N.P., (2009). Introduction to Plant Physiology. John Wiley & Sons, U.S.A. 4th Edition.
- Bajracharya, D., (1999). Experiments in Plant Physiology- A Laboratory Manual. Narosa Publishing House, New Delhi.

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Website: http://www.narajolerajcollege.ac.in

Routine : BOTANY: July'2022 - Dec'2022 Teacher wise class and syllabus distribution

SEM	Paper	UKK	NB	BH	PG	SKD	AC
I (H)	C1T	2 (U: 3,4,5)				2 (U: 1,2,6,7)	
	C1P	1 (U: Microbi				1 (U: Phycolo	
	C2T		2 (U: 1-4)		2 (U: 5-7)		
	C2P		1 (U: 1-5)		1 (U: 6-10)		
	GE1T				1 (U: 4-5)	2 (U: 1-3)	1 (U: 6-7)
	GE1P					1 (U: 1-8)	1 (U: 9-15)
I (G)	DSC - 1AT	2 (U: 4-7)		2 (U: 1-3)			
	DSC - 1AP			2 (U: All)			
III (H)	C5T		2 (U: 1-4)			2 (U: 5-6)	
	C5P		1 (U: 1-7)			1 (U: 8-12)	
	C6T	1 (U: 4-7)		1 (U: 1-3)	2 (U: 8-11)		
	C6P	1 (U: 1-6)			1 (U: 7-12)		
	C7T		1 (U: 3-4)		1 (U- 5-7)		2 (U: 1-2)
	C7P		1 (U: 1-7)				1 (U: 8-11)
	SEC - 1T			1 (U: 1-3)		1 (U: 4-6)	
	GE3T		2 (U: 5-8, 10)	2 (U: 1-4, 9)			
	GE3P		1 (U: 1, 4)	1 (U: 1,2,3)			
III (G)	DSC – 1CT	1 (U: 4-5)				1 (U: 1-3)	2 (U:6-8)
	DSC – 1CP					1 (U: 1-6)	1 (U: 7-13)
	SEC – 1T		1 (U: 4-5)	1 (U: 1-3)			
V (H)	C11T				2 (U:6-8)		2 (U: 1-5)
	C11P				1 (U: 4-7)		1 (U: 1-3)
	C12T	2 (U: 5-7)		1 (U: 3-4)		1 (U: 1-2)	
	C12P	1 (U: 4-8)		1 (U: 1-3)			
	DSE -1T		2 (U: 6-9)	2 (U: 1-5)			
	DSE -1P		1 (U: 3-5)	1 (U: 1-2)			
	DSE -2T	2 (U: 1-2)		1 (U: 5)	1 (U: 3-4)		
	DSE -2P	1 (U: 1,2)			1 (U: 3,4)		
V (G)	DSE -1AT	2 (U: 5-7)	1 (U: 1-4)		1 (U: 8-10)		
	DSE -1AP	1 (U: 1)			1 (U: 2-4)		
	SEC – 3T		1 (U: 3-4)	1 (U: 1-2)			
Total credit: 118		12T+5P=22	12T+5P=22	12T+5P=22	12T+5P=22	7T+4P=15	7T+4P=15

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Narajole, Pin-721 211

NARAJOLE RAJ COLLEGE
(NAAC Accredited 'B' Grade Government Aided College
NARAJOLE: PASCHIM MEDINIPUR: WEST BENGAL: PIN-721211
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Website: http://www.narajolerajcollege.ac.in

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30/04/24
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Narajole,Pin-721 211

Data Capturing Format (DCF) for Distribution of Papers & Classes

Name of the Department: Dept. of Botany
Academic Session: 2022-23 (July'22 – Dec'22) **Semester: ODD**

Dr. Uttam Kumar Kanp (Assistant Professor – Stage 2 & Head)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C1T	02	C1P	02	DSC-1AT	02	C6T	01	C6P	02	DSC-1CT	01	C12T	02	

Dr. Uttam Kumar Kanp (Assistant Professor – Stage 2 & Head)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
C12P	02	DSE 2T	02	DSE 2P	02	DSE1AT	02	DSE1AP	02	X	X	X	X	**22**

Prof. Nandita Bhakat (Assistant Professor - Stage 1)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C2T	02	C2P	02	C5T	02	C5P	02	C7T	01	C7P	02	GE3T	02	

Prof. Nandita Bhakat (Assistant Professor - Stage 1)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
GE3P	02	SEC-1T	01	DSE 1T	02	DSE1P	02	DSE1AT	01	SEC3T	01	X	X	**22**

Prof. Bangamoti Hansda (Assistant Professor - Stage 1)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
DSc1AT	02	DSC1AP	04	C6T	01	SEC1T	01	GE3T	02	GE3P	02	SEC1T	01	

Prof. Bangamoti Hansda (Assistant Professor - Stage 1)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
C12T	01	C12P	02	DSE1T	02	DSE1P	02	DSE2T	01	SEC3T	01	X	X	**22**

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Name of the Department: Dept. of Botany
Academic Session: 2022-23 (July'22 – Dec'22) **Semester: ODD**

Data Capturing Format (DCF) for Distribution of Papers & Classes

Dr. Prithwi Ghosh (Assistant Professor - Stage 1)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C2T	02	C2P	02	GE1T	01	C6T	02	C6P	02	C7T	01	C11T	02	

Dr. Prithwi Ghosh (Assistant Professor - Stage 1)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
C11P	02	DSE2T	01	DSE2P	02	DSE1AT	01	DSE1AP	02	C5T	02	X	X	**22**

Prof. Sanjay Kumar Datta (State Aided College Teacher)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C1T	02	C1P	02	GE1T	02	GE1P	02	C5P	02	SEC1T	01	DSC1CT	01	

Prof. Sanjay Kumar Datta (State Aided College Teacher)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
DSC1CP	02	C12T	01	X	X	X	X	X	X	X	X	X	X	**15**

Prof. Arpita Chakraborty (State Aided College Teacher)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
GE1T	01	GE1P	02	C7T	02	C7P	02	DSC1CT	02	DSC1CP	02	C11T	02	

Prof. Arpita Chakraborty (State Aided College Teacher)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
C11P	02	X	X	X	X	X	X	X	X	X	X	X	X	**15**

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Data Capturing Format (DCF) for Distribution of Papers & Classes

Name of the Department: Dept. of Botany
Academic Session: 2022-23 (Jan'23-June'23) **Semester: EVEN**

Dr. Uttam Kumar Kanp (Assistant Professor – Stage 2 & Head)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C4T	02	C4P	02	DSC2BT	02	C8T	01	C8P	02	DSC2DT	01	C13T	02	

Dr. Uttam Kumar Kanp (Assistant Professor – Stage 2 & Head)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
C13P	02	C14T	02	C14P	02					X	X	X	X	**18**

Prof. Nandita Bhakat (Assistant Professor - Stage 1)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C3T	02	C8T	03	C8P	02	C10T	02	C10P	02	GE4T	02	GE4P	02	

Prof. Nandita Bhakat (Assistant Professor - Stage 1)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
C13T	02	C13P	02									X	X	**19**

Prof. Bangamoti Hansda (Assistant Professor - Stage 1)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
DSC2BT	02	DSC2BP	04	C9T	01	SEC2T	01	GE4T	02	GE4P	02	C14T	02	

Prof. Bangamoti Hansda (Assistant Professor - Stage 1)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
C14P	02	DSE4T	02	DSE4P	02							X	X	**20**

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Data Capturing Format (DCF) for Distribution of Papers & Classes

Name of the Department: Dept. of Botany
Academic Session: 2022-23 (Jan'23-June'23) **Semester: EVEN**

Dr. Prithwi Ghosh (Assistant Professor - Stage 1)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C3P	02	C4T	02	C4P	02	GE2T	01	C9T	02	C9P	02	SEC2T	01	

Dr. Prithwi Ghosh (Assistant Professor - Stage 1)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
DSE3T	02	DSE3P	02	DSE4T	02	DSE4P	02					X	X	**20**

Prof. Sanjay Kumar Datta (State Aided College Teacher)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
C3T	02	C3P	02	GE2T	02	GE2P	02	C9T	01	C9P	02	DSC2DT	01	

Prof. Sanjay Kumar Datta (State Aided College Teacher)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
DSC2DP	02	X	X	X	X	X	X	X	X	X	X	X	X	**14**

Prof. Arpita Chakraborty (State Aided College Teacher)

Paper Code (1)	Weekly Classes (2)	Paper Code (3)	Weekly Classes (4)	Paper Code (5)	Weekly Classes (6)	Paper Code (7)	Weekly Classes (8)	Paper Code (9)	Weekly Classes (10)	Paper Code (11)	Weekly Classes (12)	Paper Code (13)	Weekly Classes (14)	Total Weekly Classes
GE2T	01	GE2P	02	C10T	02	C10P	02	DSC2DT	02	DSC2DP	02	DSE3T	02	

Prof. Arpita Chakraborty (State Aided College Teacher)

Paper Code (15)	Weekly Classes (16)	Paper Code (17)	Weekly Classes (18)	Paper Code (19)	Weekly Classes (20)	Paper Code (21)	Weekly Classes (22)	Paper Code (23)	Weekly Classes (24)	Paper Code (25)	Weekly Classes (26)	Paper Code (27)	Weekly Classes (28)	Total Weekly Classes
DSE3P	02	X	X	X	X	X	X	X	X	X	X	X	X	**15**

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TEACHING PLAN

Name of the Department: Mathematics
Name of the Teacher: Dr. Shreyasi Jana
Name and Distinctive No. of the paper: Real Analysis (C3T)
Session: 2022-2023
Semester: II

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be covered in the Lecture
1.	(**Unit-3**) **Series**	Introduction to infinite series, preliminaries and examples
2.		Basic properties of infinite series
3.		Convergence and divergence of infinite series
4.		Cauchy criterion for convergence of infinite series
5.		Discussion on different types of convergence tests of series
6.		Comparison test, problems
7.		Limit comparison test, problems
8.		Ratio test, problems
9.		Cauchy's nth root test and testing of convergence by using Cauchy's nth root test
10.		Idea for Integral test
11.		Discussion on Alternating series
12.		Idea for Leibniz test and convergence test of alternating series by Leibniz test
13.		Introduction to Absolute and conditional convergence of alternating series
14.		Problems for testing absolute and conditional convergence of infinite series
15.	**Graphical Demonstration (Teaching Aid)**	Tutorial on different types of convergence tests of infinite series
16.		Plotting of recursive sequences.
17.		Study the convergence of sequences through plotting
18.		Problems
19.		Verify Bolzano-Weierstrass theorem through plotting of sequences and hence identify convergent subsequences from the plot
20.		Problems
Sr. No. of	**Broad topic in**	**Topic to be covered in the Lecture**

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Lect.	**university syllabus**	
21.		Study the convergence/divergence of in finite series by plotting their sequences of partial sum
22.		Problems
23.		Cauchy's root test by plotting nth roots
24.		Problems
25.		Ratio test by plotting the ratio of nth and (n+1)th term
26.		Problems
27.		Tutorial on plotting
28.		Doubt Clearing
29.		Previous year university question papers discussion
30.		Class Test

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TEACHING PLAN

Name of the Department: Mathematics
Name of the Teacher: Dr. Shreyasi Jana
Name and Distinctive No. of the paper: Multivariate Calculus (C9T)
Session: 2022-2023
Semester: IV

No. of ture	Broad Topic in University Syllabus	Topic to be covered in the Lecture
1.	**(UNIT- 1) Functions of Several Variables**	Introduction to Functions of several variables
2.		Limit and continuity of functions of two or more variables
3.		Problems
4.		Partial differentiation
5.		Total differentiability and differentiability
6.		Problems discussion
7.		Sufficient condition for differentiability
8.		Chain rule for one and two independent parameters
9.		Examples
10.		Directional derivatives
11.		The gradient
12.		Maximal and normal property of the gradient
13.		Tangent planes
14.		Extrema of functions of two variables Problems
15.		Method of Lagranges multiplier
16.		Constrained optimization problems
17.	**Problem Discussion**	Problem discussion on chain rules
18.		Problem discussion on testing maxima or minima of functions of several variables
19.		Discussion on previous year University question papers
20.		Doubt clearing
21.	**(Unit 2) Double Integration**	Double integration over rectangular region
22.		Examples
23.		Double integration over non-rectangular region
24.		Examples

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TEACHING PLAN

Name of the Department: Mathematics
Name of the Teacher: Dr. Shreyasi Jana
Name and Distinctive No. of the paper: Partial Differential Equations and Applications (C11T)

Session: 2022-2023
Semester: V

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be covered in the Lecture
1.	(Unit-I) Partial Differential Equation	Introduction to Partial Differential Equation(PDE)-Basic concepts, definition, mathematical problems
2.		First order PDE and its classification
3.		Discussion of some problems
4.		Construction and Geometrical Interpretation of first order pde
5.		Problem Solving
6.		Method of Characteristics for obtaining General Solution of Quasi Linear Equations
7.		Canonical Forms of First order Linear Equations
8.		Discussion of different problems
9.		Method of Separation of Variables for solving first order pde
10.		Worked examples
11.		Doubt clearing
12.	(Unit-II) Heat, Wave and Laplace Equation	Derivation of Heat equation with examples
13.		Solving problems of heat equation
14.		Derivation of Wave equation
15.		Solving problems of wave equation
16.		Derivation of Laplace equation with examples

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17.		Classification of second order linear equations as hyperbolic, parabolic or elliptic
18.		Reduction of second order Linear Equations to canonical forms
19.		Problem Discussion
20.		Doubt Clearing
21.		Class Test
22.	**(Unit-III) Vibrating String and Heat Conduction Problem**	Cauchy problem of an infinite string
23.		Problems
24.		Initial Boundary Value Problems
25.		Semi-Infinite String with a fixed end
26.		Semi-Infinite String with a Free end
27.		Discussion of problems on vibrating string
28.		Equations with non-homogeneous boundary conditions
29.		Non- Homogeneous Wave Equation
30.		Problem solving
31.		Method of separation of variables
32.		Problems
33.		Solving the Vibrating String Problem
34.		Solving the Heat Conduction problem
35.		Examples
36.		Solving Various Problems
37.		Doubt Clearing
38.		Tutorial
39.		Introduction to Central force
40.		Problems of central orbit
41.		Discussion on Constrained motion
42.		Examples

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43.	**(Unit-IV)**	Problems of varying mass
44.	**Dynamics**	Solving different problems of constrained motion
45.		Derivation of tangent and normal components of acceleration
46.		Problems
47.		Discussion on modelling ballistics and planetary motion
48.		Different problems on planetary motion
49.		Kepler's second law
50.		Examples
51.		Problems
52.		Doubt Clearing
53.		Doubt Clearing
54.		Tutorial
55.		Different problem solving
56.		Previous year question papers solving
57.		Previous year question papers solving
58.		Different problem solving
59.		Summary
60.		Class Test

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TEACHING PLAN

Name of the Department: Mathematics
Name of the Teacher: Dr. Shreyasi Jana
Name and Distinctive No. of the paper: Metric Spaces & Complex Analysis (C13T)
Session:2022-2023
Semester: VI

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be covered in the Lecture
1.		Introduction to complex numbers
2.		Limits, Limits involving the point at infinity
3.		Continuity
4.	**(UNIT- 3)**	Properties of complex numbers
5.		Region in the complex plane
6.	**Complex Numbers: Limit, Continuity and Differentiability**	Functions of complex variables
7.		Definition of Mappings, examples
8.		Discussion on Derivatives
9.		Differentiation formulas
10.		Cauchy- Riemann equations
11.		Problems
12.		Sufficient conditions for differentiability
13.		Problem Discussion
14.		Tutorial on Cauchy Riemann equations
15.		Doubt Clearing and previous year university questions discussion
16.	**(Unit 4)**	Examples of analytic functions
17.		Exponential function
18.	**Analytic Function**	Logarithmic function
19.		Trigonometric function
20.		Derivatives of functions
21.	**Contour Integrals**	Contours
22.		Contour integrals and its examples
23.		Upper bounds for moduli of contour integrals
24.		Cauchy- Goursat theorem
25.	**Broad topic in university Syllabus**	Examples
Sr. No. of Lect.		**Topic to be covered in the Lecture**

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26.		Cauchy integral formula
27.		Problem discussion
28.		Tutorial
29.		Tutorial
30.	**(Unit 5)** **Liouville's theorem**	Liouville's theorem
31.		The fundamental theorem of algebra
32.		Convergence of sequences and series
33.		Examples
34.		Taylor series and its examples
35.	**(Unit -6)** **Laurent Series and Power Series**	Laurent series and its examples
36.		Power Series
37.		Absolute and uniform convergence
38.		Problem Discussion
39.		Doubt Clearing and previous year university questions discussion
40.		Class test

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Name of the Department: BOTANY
Name of the Teacher: DR. UTTAM KUMAR KANP
Name and Distinctive Number of the Paper: PHYCOLOGY AND MICROBIOLOGY (CC1 T & P)
Session: 2022-2023 (JULY'2022 –DEC'2022)
Semester: I (HONOURS)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Theory** **Unit 3: Bacteria**	Discovery and general characteristic of bacteria.
Lecture 02		Eubacteria and wall less forms
Lecture 03		Cell structure, Nutrition types of bacteria.
Lecture 04		Reproduction- vegetative and asexual
Lecture 05		Reproduction-Recombination.
Lecture 06	**Unit 4: Algae**	General characteristics of algae.
Lecture 07		Ecology, distribution, range of thallus organization of algae.
Lecture 08		Cell structure and components
Lecture 09		Cell wall, Pigment system, reserve food of Algae.
Lecture 10		Types of flagella, methods of reproduction of algae.
Lecture 11		Classification: Criteria, system of Fritsch.
Lecture 12		Evolutionary classification of Lee and Van-den Hoeke t. al.
Lecture 13		Significant contributions of important phycologists.
Lecture 14		Role of algae in the environment, agriculture, biotechnology and industry.
Lecture 15	**Unit 5: Cyanophyta and Xanthophyta**	Cyanophyta: Ecology and occurrence, range of thallus organization, cell structure, reproduction, morphology.
Lecture 16		Xanthophyta: Ecology and occurrence range of thallus organization, cell structure, reproduction, morphology.

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Lecture 17		Life cycle of *Nostoc.*
Lecture 18		Life cycle of *Vaucheria.*
Lecture 19		Revision
Lecture 20		Revision
Lecture 21		Revision
Practical 1	**Practical** **Microbiology**	Electron micrographs/Models of viruses – T-Phage and TMV, Line drawings/ Photographs of Lytic and Lysogenic Cycle.
Practical 2		Types of Bacteria to be observed from temporary/permanent slides/photographs.
Practical 3		Electron micrographs of bacteria, binary fission, endospore, conjugation, root Nodule.
Practical 4		Gram staining.
Practical 5		Endospore staining with malachite green using the (endospores taken from soil bacteria).
Practical 6		Study of bacteria from root nodules/Curd sample.

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NARAJOLE: PASCHIM MEDINIPUR: PIN-721211

Ph.: 9475429270 e-mail: narajolerajcollege@rediffmail.com

Name of the Department: BOTANY
Name of the Teacher: DR. UTTAM KUMAR KANP
Name and Distinctive Number of the Paper: ECONOMIC BOTANY (CC6 T & P)
Session: 2022-2023 (JULY'2022 – DEC'2023)
Semester: III (HONOURS)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Theory** **Unit 4: Source of sugars and starches**	Morphology cultivation, management and processing of sugarcane, products and by-products of sugarcane industry.
Lecture 02		Potato – morphology, propagation & uses.
Lecture 03	**Unit 5: Spices**	Listing of important spices, their family and part used. Economic importance with special reference to fennel, saffron, clove and black pepper
Lecture 4	**Unit 6: Beverages**	Tea: morphology, processing & uses.
Lecture 5		Coffee: morphology, processing & uses.
Lecture 6	**Unit 7: Sources of oils and fats**	General description, classification, extraction, their uses and health implications of groundnut, coconut, linseed (Botanical name, family & uses).
Lecture 7		General description, classification, extraction, their uses and health implications of soybean, mustard and coconut (Botanical name, family & uses).
Lecture8		Essential Oils: General account, extraction methods, comparison with fatty oils & their uses.
Lecture 9		Revision
Lecture 10		Revision
Lecture 12		Revision
Practical 1	**Practical** **Economic botany**	**Cereals**: Wheat (habit sketch, L. S/T.S. grain, starch grains, micro-chemical tests) Rice (habit sketch,

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		study of paddy and grain, starch grains, micro-chemical tests).
Practical 2		**Legumes**: Soybean, Groundnut, (habit, fruit, seed structure, micro-chemical tests).
Practical 3		**Sources of sugars and starches**: Sugarcane (habit sketch; cane juice- micro-chemical tests), Potato (habit sketch, tuber morphology, T.S. tuber to show localization of starch grains, w.m. starch grains, micro-chemical tests).
Practical 4		**Spices:** Black pepper, Fennel and Clove (habit and sections).
Practical 5		**Beverages**: Tea (plant specimen, tea leaves), Coffee (plant specimen, beans).
Practical 6		**Sources of oils and fats**: Coconut- T.S. nut, Mustard–plant specimen, seeds; tests for fats in crushed seeds

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Name of the Department: BOTANY
Name of the Teacher: DR. UTTAM KUMAR KANP
Name and Distinctive Number of the Paper: PLANT PHYSIOLOGY (CC12 T & P)
Session: 2022-2023 (JULY'2022 –DEC'2022)
Semester: V (HONOURS)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Theory** **Unit 5: Plant growth regulators**	Discovery, chemical nature (basic structure), bioassay and physiological roles of - Auxin,
Lecture 02		-Gibberellins,.,
Lecture 03		-Cytokinin
Lecture 04		-Abscisic acid,
Lecture 05		-Ethylene,
Lecture 06		-Brassinosteroids and Jasmonic acid
Lecture 07	**Unit 6: Physiology of flowering**	Photoperiodism, flowering stimulus, florigen concept,
Lecture 08		vernalization,
Lecture 09		seed dormancy.
Lecture 10	**Unit 7: Phytochrome, crytochromes and phototropins**	Discovery, chemical nature, role in photomorphogenesis.
Lecture 11		low energy responses (LER) and high irradiance responses (HIR), mode of action.
Lecture 12		Revision
Lecture 13		Revision
Lecture 14		Revision
Practical 1	**Practical**	Calculation of stomatal index and stomatal frequency from the two surfaces of leaves of a mesophyte.
Practical 2		Calculation of stomatal index and stomatal frequency from the two surfaces of leaves of a xerophyte.
Practical 3		To calculate the area of an open stoma and percentage of leaf area open through stomata in a mesophyte (both surfaces).
Practical 4		To calculate the area of an open stoma and percentage of leaf area open through stomata in a

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		xerophyte (both surfaces).
Practical 5		To study the phenomenon of seed germination (effect of light).
Practical 6		To study the effect of different concentrations of IAA on *Avena* coleoptile elongation (IAA Bioassay).
Practical 7		To study the induction of amylase activity in germinating barley grains.
Practical 8		To demonstrate suction due to transpiration.
Practical 9		Fruit ripening/Rooting from cuttings (Demonstration).
Practical 10		Bolting experiment/*Avena* coleoptiles bioassay (demonstration).

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Name of the Department: BOTANY
Name of the Teacher: DR. UTTAM KUMAR KANP
Name and Distinctive Number of the Paper: PLANT BREEDING (DSE 2T & P)
Session: 2022-2023 (JULY'2022 –DEC'2022)
Semester: V (HONOURS)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Theory** **Unit 1: Plant breeding**	Introduction and objectives of breeding systems.
Lecture 02		Modes of reproduction in crop plants.
Lecture 03		Important achievements and undesirable consequences of plant breeding.
Lecture 04	**Unit 2: Methods of Crop improvement**	Introduction: Centres of origin and domestication of crop plants
Lecture 05		plant genetic resources; Acclimatization.
Lecture 067		Selection methods: For self pollinated propagated plants.
Lecture 07		cross pollinated and vegetative propagated plants.
Lecture 08		Hybridization: For self, propagated plants – Procedure, advantages and limitations.
Lecture 9		Hybridization: For cross propagated plants – Procedure, advantages and limitations.
Lecture 10		Hybridization: For vegetative propagated plants – Procedure, advantages and limitations.
Lecture 11		Revision
Lecture 12		Revision
Lecture 13		Revision
Practical 1	**Practical** **Plant Breeding**	Identification of offspring's having parental genotypes and recombinant genotypes, based on combination of morphological attributes in a dihybrid cross.
Practical 2		Processes of emaculation – By applying higher temperature.

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Practical 3		Processes of emaculation –By amputing anthers

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Name of the Department: BOTANY
Name of the Teacher: DR. UTTAM KUMAR KANP
Name and Distinctive Number of the Paper: ARCHEGONIATE (CC 4 T)
Session: 2022-2023 (JAN'2023 –JUNE'2023)
Semester: II (HONOURS)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Unit 3: Type studies- Bryophytes**	Classification (up to family),
Lecture 02		Morphology, anatomy and reproduction of –*Riccia*
Lecture 03		-*Marchantia*
Lecture 04		-*Pellia*
Lecture 05		-*Porella*
Lecture 06		-*Anthoceros*
Lecture 07		-*Sphagnum*
Lecture 08		- *Funaria and* Pogonatum
Lecture 09		Reproduction and evolutionary trends in *Riccia, Marchantia, PlagichasmaAnthoceros*and *Funaria*(developmental stages not included).
Lecture 10		Ecological and economic importance of bryophytes with special reference to *Sphagnum*.
Lecture 11		Revision
Lecture 12		Revision
Lecture 13		Revision

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Name of the Department: BOTANY
Name of the Teacher: DR. UTTAM KUMAR KANP
Name and Distinctive Number of the Paper: MOLECULAR BIOLOGY (CC8 T)
Session: 2022-2023 (JAN'2023 –JUNE'2023)
Semester: IV (HONOURS)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Unit- 1: Nucleic acids: Carriers of genetic information**	Historical perspective;
Lecture 02		DNA as the carrier of genetic information - Griffith's experiment.
Lecture 03		-Hershey & Chase experiment.
Lecture 04		-Avery, McLeod & McCarty experiment.
Lecture 05		-Fraenkel-Conrat's experiment.
Lecture 06	**Unit -2. The Structures of DNA and RNA / Genetic Material**	DNA Structure: Miescher to Watson and Crick- historic perspective.
Lecture 07		DNA structure, Salient features of double helix.
Lecture 08		Types of DNA.
Lecture 09		Types of genetic material, denaturation and renaturation.
Lecture 10		Cot curves; Organization of DNA-Prokaryotes, Viruses, Eukaryotes.
Lecture 11		RNA Structure.
Lecture 12		Organelle DNA - mitochondria and chloroplast DNA.
Lecture 13		The Nucleosome.
Lecture 14		Chromatin structure-Euchromatin.
Lecture 15		Heterochromatin- Constitutive and Facultative heterochromatin.
Lecture 16	**Unit- 3: The replication of DNA**	Chemistry of DNA synthesis (Kornberg's discovery);
Lecture 17		General principles – bidirectional, semiconservative and semi discontinuous replication,
Lecture 18		RNA priming;
Lecture 19		Various models of DNA replication, including rolling

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		circle,
Lecture 20		θ (theta) mode of replication,
Lecture 21		replication of linear ds-DNA,
Lecture 22		replication of the 5'end of linear chromosome;
Lecture 23		Enzymes involved in DNA replication.
Lecture 24		Revision
Lecture 25		Revision

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Name of the Department: BOTANY
Name of the Teacher: DR. UTTAM KUMAR KANP
Name and Distinctive Number of the Paper: PLANT METABOLISM (CC13 T)
Session: 2022-2023 (JAN'2023 –JUNE'2023)
Semester: VI (HONOURS)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Unit 1: Concept of metabolism**	Introduction, anabolic and catabolic pathways.
Lecture 02		Regulation of metabolism.
Lecture 03		Role of regulatory enzymes (allosteric,covalent modulation and Isozymes).
Lecture 04	**Unit 2: Carbon assimilation**	Historical background, photosynthetic pigments.
Lecture 05		Role of photosynthetic pigments (chlorophylls and accessory pigments).
Lecture 06		Antenna molecules and reaction centres,
Lecture 07		Photochemical reactions, photosynthetic electron transport, PSI, PSII, Q cycle,
Lecture 08		CO2 reduction,
Lecture 09		photorespiration,
Lecture 10		C4 pathways;
Lecture 11		Crassulacean acid metabolism;
Lecture 12		Factors affecting CO2 reduction.
Lecture 13	**Unit 3: Carbohydrate metabolism**	Synthesis and catabolism of sucrose and starch.
Lecture 14	**Unit 4: Carbon Oxidation**	Glycolysis.
Lecture 15		Fate of pyruvate, regulation of glycolysis.
Lecture 16		Oxidative pentose phosphate pathway.
Lecture 17		Oxidative decarboxylation of pyruvate.
Lecture 18		Regulation of PDH, NADH shuttle.
Lecture 19		TCA cycle.
Lecture 20		Amphibolic role, anaplerotic

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		reactions, regulation of the cycle.
Lecture 21		Mitochondrial electron transport.
Lecture 22		Oxidative phosphorylation.
Lecture 23		Cyanide-resistant respiration.
Lecture 24		Factors affecting respiration.
Lecture 25		Revision
Lecture 26		Revision

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Name of the Department: BOTANY

Name of the Teacher: DR. UTTAM KUMAR KANP

Name and Distinctive Number of the Paper: PLANT BIOTECHNOLOGY(CC14T)

Session: 2022-2023 (JAN'2023 –JUNE'2023)

Semester: VI (HONOURS)

Sr. No. of Lecture	Broad Topic in University Syllabus	Topic to be Covered in the Lecture
Lecture 01	**Unit -1: Plant Tissue Culture**	Historical perspective.
Lecture 02		Composition of media.
Lecture 03		Nutrient and hormone requirements (role of vitamins and hormones).
Lecture 04		Totipotency; Organogenesis.
Lecture 05		Embryogenesis (somatic and zygotic).
Lecture 06		Protoplast isolation, culture and fusion.
Lecture 07		Tissue culture applications (micropropagation, androgenesis, virus elimination.
Lecture 08		Secondary metabolite production.
Lecture 09		Haploids, triploids and hybrids.
Lecture 10		Cryopreservation; Germplasm Conservation).
Lecture 11	**Unit- 2: Recombinant DNA technology**	Restriction Endonucleases - History, Types I-IV.
Lecture 12		Restriction Endonucleases biological role and application.
Lecture 13		Restriction Mapping (Linear and Circular).
Lecture 14		Cloning Vectors - Prokaryotic pUC 18 and pUC19.
Lecture 15		- pBR322, Ti plasmid, BAC.
Lecture 16		Lambda phage.
Lecture 17		M13 phagemid.
Lecture 18		Cosmid, Shuttle vector.
Lecture 19		Eukaryotic Vectors (YAC).
Lecture 20	**Unit- 3:Gene Cloning**	Recombinant DNA.
Lecture 21		Bacterial Transformation and selection of recombinant clones.
Lecture 22		PCR mediated gene cloning.

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Lecture 23		Gene Construct; construction of genomic and cDNA libraries.
Lecture 24		Screening DNA libraries to obtain gene of interest by genetic selection; complementation, colony hybridization.
Lecture 25		PCR.
Lecture 26		Revision
Lecture 27		Revision

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Name of the Department: **English**
Name of the Teacher: **Soma Debray**
Name and Distinctive Number of the Paper: **CC2 (C2T)**
Session:**2022-2023**
Semester:**1st**

Sl. No. of Lecture	Board Topic in University Syllabus	Topic to be Covered in the Lectures
Lecture 01	Background Reading: *Theatre and Elizabethan England*	Origins of Western Theatre
Lecture 02		Greek and Roman Theatrical scenes
Lecture 03		The Elizabethan Age
Lecture 04		The Elizabethan Age
Lecture 05		Theatre in the Elizabethan times
Lecture 06		Precursors of Shakespeare
Lecture 07		Shakespeare and his contemporaries
Lecture 08		Shakespearean dramatic canon and the poetry of Shakespeare
Lecture 09	William Shakespeare: *Macbeth*	Introduction to *Macbeth*
Lecture 10		Story of *Macbeth*
Lecture 11		Reading and Analysis of The Text 01
Lecture 12		Reading and Analysis of The Text 02
Lecture 13		Reading and Analysis of The Text 03
Lecture 14		Reading and Analysis of The Text 04
Lecture 15		Reading and Analysis of The Text 05
Lecture 17		Reading and Analysis of The Text 06
Lecture 18		Reading and Analysis of The Text 07
Lecture 19		Reading and Analysis of The Text 08
Lecture 20		Reading and Analysis of The Text 09
Lecture 21		Reading and Analysis of The Text 10
Lecture 22		Reading and Analysis of The Text 11

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Lecture 23		Reading and Analysis of The Text 12
Lecture 24		Reading and Analysis of The Text 13
Lecture 25		Reading and Analysis of The Text 14
Lecture 26		Reading and Analysis of The Text 15
Lecture 27		Shakespearean Tragedy
Lecture 28		Macbeth as a Tragic Hero
Lecture 29		Characters in *Macbeth*
Lecture 30		Characters in *Macbeth*
Lecture 31		Plot of *Macbeth*
Lecture 32		Role of Fate in *Macbeth*
Lecture 33		The Supernatural in *Macbeth*
Lecture 34		The opening Scene of *Macbeth*
Lecture 35		The Porter Scene and Humour in *Macbeth*
Lecture 36		Soliloquies in *Macbeth*
Lecture 37		Discussion of the Cinematic Adaptation and other Modern Adaptations & Translations
Lecture 38		Discussions of Short Questions
Lecture 39		Discussions of Short Questions
Lecture 40		Revision Class
Lecture 41		Revision Class
Lecture 42		Revision Class
Lecture 43	*Critical Terms*	Allegory, Ballad, Blank-Verse, Heroic Couplet, Bathos
Lecture 44		Comedy, Dramatic Monologue, Elegy, Image, Ode

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Lecture 45		Carpe-diem, Soliloquy, Symbol, Tragedy, Catharsis
Lecture 46		Hamartia, Three Unities, Anagnorisis, Antagonist, Chorus
Lecture 47		Denouement, Comic-relief, Aside, Anti-Hero, Catastrophe
Lecture 48		Revision
Lecture 49		Revision
Lecture 50		Revision

Lecture 44		Comedy, Dramatic Monologue, Elegy, Image, Ode
Lecture 45		Carpe-diem, Soliloquy, Symbol, Tragedy, Catharsis
Lecture 46		Hamartia, Three Unities, Anagnorisis, Antagonist, Chorus
Lecture 47		Denouement, Comic-relief, Aside, Anti-Hero, Catastrophe
Lecture 48		Revision
Lecture 49		Revision
Lecture 50		Revision

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Name of the Department: **English**

Name of the Teacher: **Soma Debray**

Name and Distinctive Number of the Paper: **CC5 (C5T)**
Session: **2022-2023**
Semester:**3rd**

Sl. No. of Lecture	Board Topic in University Syllabus	Topic to be Covered in the Lectures
Lecture 01	Background Reading: ***British Novel***	19th century England: Society and Politics
Lecture 02		19th century philosophy
Lecture 03		Locke; Mill; Utilitarianism
Lecture 04		The rise of the novel
Lecture 05		The rise of the novel
Lecture 06		The rise of the novel
Lecture 07		The works of Dickens
Lecture 08		The story: *Hard Times*
Lecture 09	**Charles Dickens: *Hard Times***	Analytical reading of the text
Lecture 10		Analytical reading of the text
Lecture 11		Analytical reading of the text
Lecture 12		Analytical reading of the text
Lecture 13		Analytical reading of the text
Lecture 14		Analytical reading of the text
Lecture 15		Analytical reading of the text
Lecture 17		Analytical reading of the text
Lecture 18		Analytical reading of the text
Lecture 19		Analytical reading of the text

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Lecture 20		Analytical reading of the text
Lecture 21		Analytical reading of the text
Lecture 22		Analytical reading of the text
Lecture 23		Analytical reading of the text
Lecture 24		Analytical reading of the text
Lecture 25		Analytical reading of the text
Lecture 26		Plot of *Hard Times*
Lecture 27		Major characters of *Hard Times*
Lecture 28		Minor characters of *Hard Times*
Lecture 29		Symbolism in *Hard Times*
Lecture 30		Class conflict in *Hard Times*
Lecture 31		Humour in *Hard Times*
Lecture 32		The title *Hard Times*
Lecture 33		*Hard Times* as a Dickensian novel
Lecture 34		Language of *Hard Times*
Lecture 35		Discussion of short questions
Lecture 36		Discussion of short questions
Lecture 37		Discussion of short questions
Lecture 38		Discussion of short questions
Lecture 39		Discussion of short questions
Lecture 40		Revision & practise
Lecture 41		Revision & practise
Lecture 42		Revision & practise
Lecture 43		Revision & practise

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Lecture 44		Revision & practise
Lecture 45		Revision & practise
Lecture 46		Revision & practise
Lecture 47		Revision & practise
Lecture 48		Revision & practise
Lecture 49		Revision & practise
Lecture 50		Revision & practise

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Name of the Department: **English**

Name of the Teacher: **Soma Debray**
Name and Distinctive Number of the Paper: **DSC1C (DSC1CT)**
Session: **2022-2023**
Semester:**3rd**

Sl. No. of Lecture	Board Topic in University Syllabus	Topic to be Covered in the Lectures
Lecture 01	Background Reading: ***Women and Violence***	Women in India
Lecture 02		Violence faced by women down the ages
Lecture 03		Post-colonial women
Lecture 04		Dalit women in India
Lecture 05		Status of Minority women
Lecture 06		Women movements against women
Lecture 07		Women activists
Lecture 08		Marginalisation of women
Lecture 09	***Karukku***	Analytical reading of the text: *Karukku*
Lecture 10		Analytical reading of the text: *Karukku*
Lecture 11		Analytical reading of the text: *Karukku*
Lecture 12		Analytical reading of the text: *Karukku*
Lecture 13		Analytical reading of the text: *Karukku*
Lecture 14		Analytical reading of the text: *Karukku*
Lecture 15		Analytical reading of the text: *Karukku*
Lecture 17		Analytical reading of the text: *Karukku*
Lecture 18		Analytical reading of the text: *Karukku*
Lecture 19		Analytical reading of the text: *Karukku*

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Lecture 20		Analytical reading of the text: *Karukku*
Lecture 21		Analytical reading of the text: *Karukku*
Lecture 22		Analytical reading of the text: *Karukku*
Lecture 23		Analytical reading of the text: *Karukku*
Lecture 24		Analytical reading of the text: *Karukku*
Lecture 25		Analytical reading of the text: *Karukku*
	Sultana's Dream	
Lecture 26		Analytical reading of the text:*Sultana's Dream*
Lecture 27		Analytical reading of the text: *Sultana's Dream*
Lecture 28		Analytical reading of the text: *Sultana's Dream*
Lecture 29		Analytical reading of the text: *Sultana's Dream*
Lecture 30		Analytical reading of the text: *Sultana's Dream*
Lecture 31		Analytical reading of the text: *Sultana's Dream*
Lecture 32		Analytical reading of the text: *Sultana's Dream*
Lecture 33		Analytical reading of the text: *Sultana's Dream*
Lecture 34		Analytical reading of the text: *Sultana's Dream*
Lecture 35		Analytical reading of the text: *Sultana's Dream*

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Lecture 36		Discussion of short questions
Lecture 37		Discussion of short questions
Lecture 38		Discussion of short questions
Lecture 39		Discussion of short questions
Lecture 40		Revision & practise
Lecture 41		Revision & practise
Lecture 42		Revision & practise
Lecture 43		Revision & practise
Lecture 44		Revision & practise
Lecture 45		Revision & practise
Lecture 46		Revision & practise
Lecture 47		Revision & practise
Lecture 48		Revision & practise
Lecture 49		Revision & practise
Lecture 50		Revision & practise

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Name of the Department: **English**

Name of the Teacher: **Soma Debray**

Name and Distinctive Number of the Paper: **CC11 (C11T)**

Session: **2022-2023**

Semester:**5th**

Sl. No. of Lecture	Board Topic in University Syllabus	Topic to be Covered in the Lectures
Lecture 01	Background Reading: *Colonial / Post Colonial*	Western Colonisers: society/ culture/ tradition/ education
Lecture 02		De-colonising movements
Lecture 03		New literature in the making
Lecture 04		The politics of identity, race & gender
Lecture 05		Africa: a new world vis-à-vis the old
Lecture 06		Writing from New Africa
Lecture 07		Chinua Achebe and the beginnings
Lecture 08	Chinua Achebe: *Things Fall Apart*	The story*: Things Fall Apart*
Lecture 09		Analytical reading of the text *Things Fall Apart*
Lecture 10		Analytical reading of the text *Things Fall Apart*
Lecture 11		Analytical reading of the text*Things Fall Apart*
Lecture 12		Analytical reading of the text*Things Fall Apart*
Lecture 13		Analytical reading of the text*Things Fall Apart*
Lecture 14		Analytical reading of the text*Things Fall Apart*
Lecture 15		Analytical reading of the text*Things Fall Apart*
Lecture 16		Analytical reading of the text*Things Fall Apart*
Lecture 17		Analytical reading of the text*Things Fall Apart*

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Lecture 18		Analytical reading of the text*Things Fall Apart*
Lecture 19		Analytical reading of the text*Things Fall Apart*
Lecture 20		Analytical reading of the text*Things Fall Apart*
Lecture 21		Analytical reading of the text*Things Fall Apart*
Lecture 22		Analytical reading of the text*Things Fall Apart*
Lecture 23		Analytical reading of the text*Things Fall Apart*
Lecture 24		Major characters in *Things Fall Apart*
Lecture 25		Minor characters in the novel
Lecture 26		Storytelling in Achebe
Lecture 27		Gender concerns in Achebe's novel
Lecture 28		Significance of the title
Lecture 29		Concept of time in *Things Fall Apart*
Lecture 30		Discussions of Short questions
Lecture 31		Discussions of Short questions
Lecture 32		Revision
Lecture 33		Revision
Lecture 34	Short Story: *The Collector of Treasures* by Bessie Head	Tradition of short story in African literature
Lecture 35		Reading the story *The Collector of Treasures* analytically
Lecture 36		Reading the story*The Collector of Treasures* analytically
Lecture 37		Reading the story*The Collector of Treasures* analytically

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Lecture 38		Reading the story*The Collector of Treasures* analytically
Lecture 39		Reading the story*The Collector of Treasures* analytically
Lecture 40		Plot of the story *The Collector of Treasures*
Lecture 41		Title of the story *The Collector of Treasures*
Lecture 42		Characters in the story *The Collector of Treasures*
Lecture 43		Discussion of short questions
Lecture 44		Revision
Lecture 45		Revision

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Name of the Department: **English**

NARAJOLE RAJ COLLEGE

(NAAC Accredited 'B' Grade Govt.-Aided College)

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Name of the Teacher: **Soma Debray**
Name and Distinctive Number of the Paper: **DSE1 (DSE1T)**
Session: **2022-2023**
Semester:**5th**

Sl. No. of Lecture	Board Topic in University Syllabus	Topic to be Covered in the Lectures
Lecture 01	Background Reading – *Developments in Russian Literature*	Russian society and history
Lecture 02		Literary movements and development of Russian novel
Lecture 03		The Detective novel and Psychoanalysis
Lecture 04	Fyodor Dostoevsky: ***Crime and Punishment***	*Crime and Punishment*: story in brief
Lecture 05		Reading and Analysis of The Text
Lecture 06		Reading and Analysis of The Text
Lecture 07		Reading and Analysis of The Text
Lecture 08		Reading and Analysis of The Text
Lecture 09		Reading and Analysis of The Text
Lecture 10		Reading and Analysis of The Text
Lecture 11		Reading and Analysis of The Text
Lecture 12		Reading and Analysis of The Text
Lecture 13		Reading and Analysis of The Text
Lecture 14		Reading and Analysis of The Text
Lecture 15		Reading and Analysis of The Text
Lecture 16		Reading and Analysis of The Text
Lecture 17		Reading and Analysis of The Text
Lecture 18		Reading and Analysis of The Text
Lecture 19		Reading and Analysis of The Text

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Lecture 20		Reading and Analysis of The Text
Lecture 21		Reading and Analysis of The Text
Lecture 22		Technique of the detective
Lecture 23		The protagonist
Lecture 24		Major characters
Lecture 25		Minor characters
Lecture 26		Faith and redemption
Lecture 27		Morality
Lecture 28		Women in the novel
Lecture 30		Discussion of short questions
Lecture 31		Discussion of short questions
Lecture 32		Discussion of short questions

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