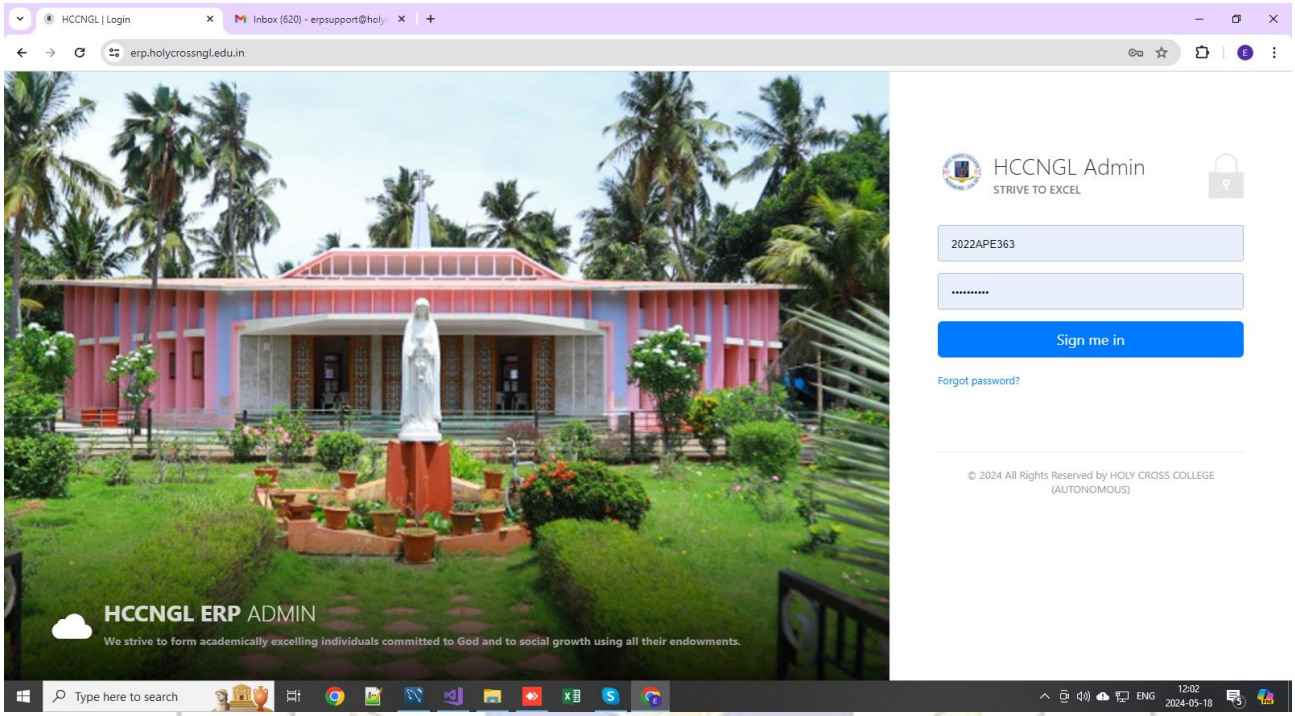
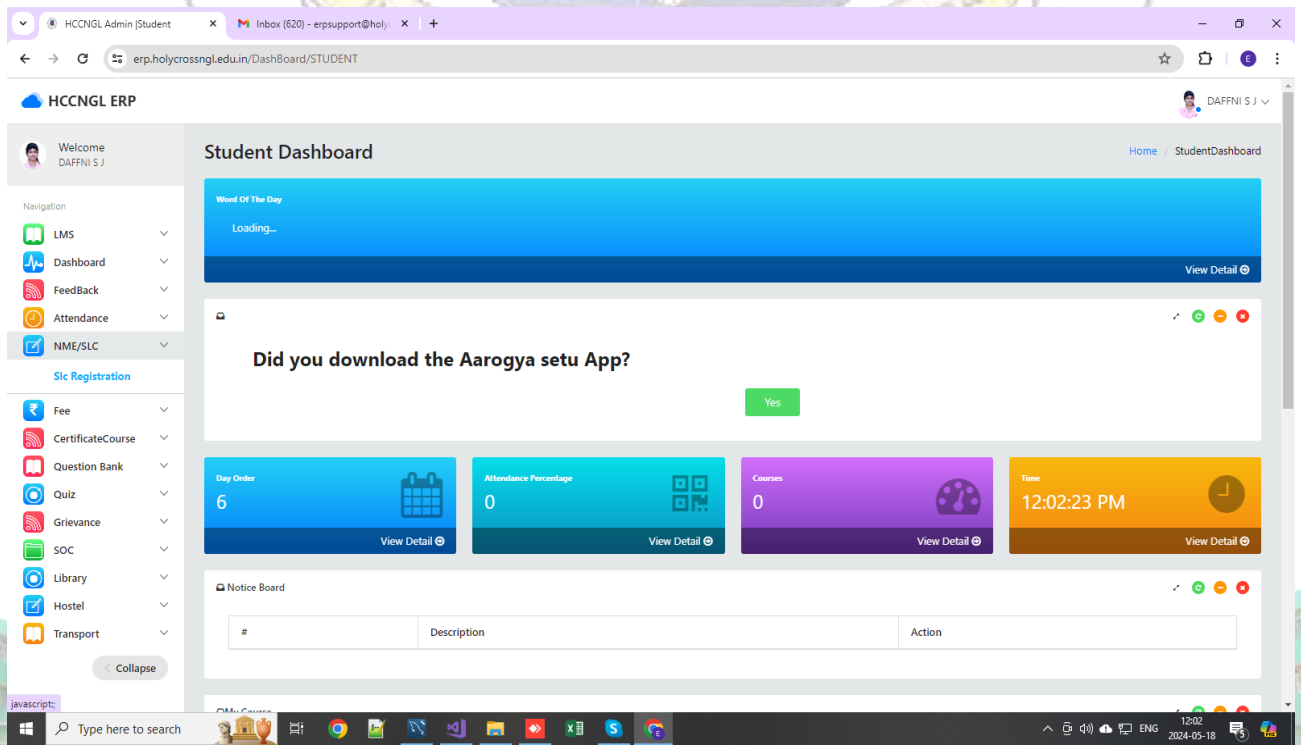
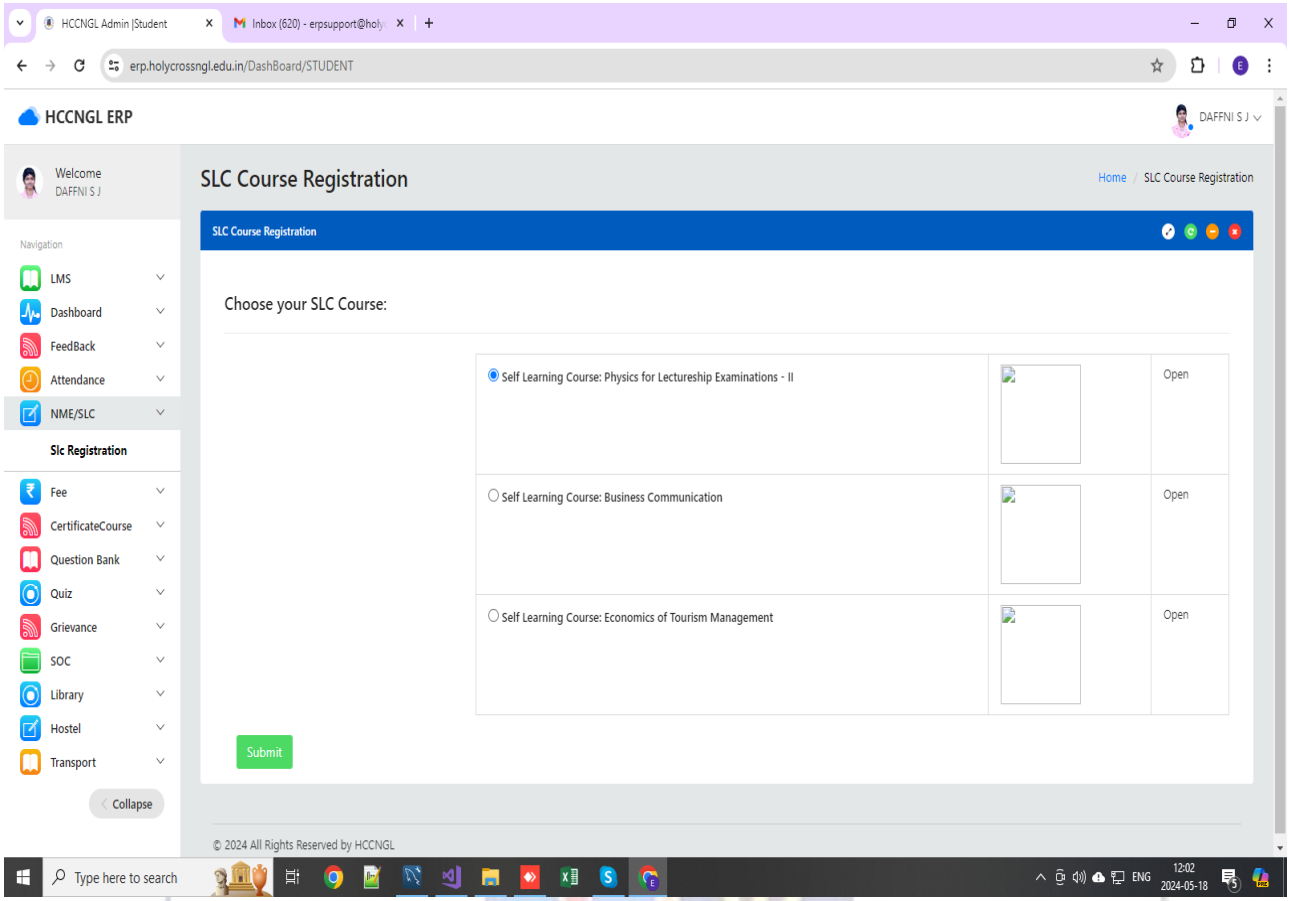
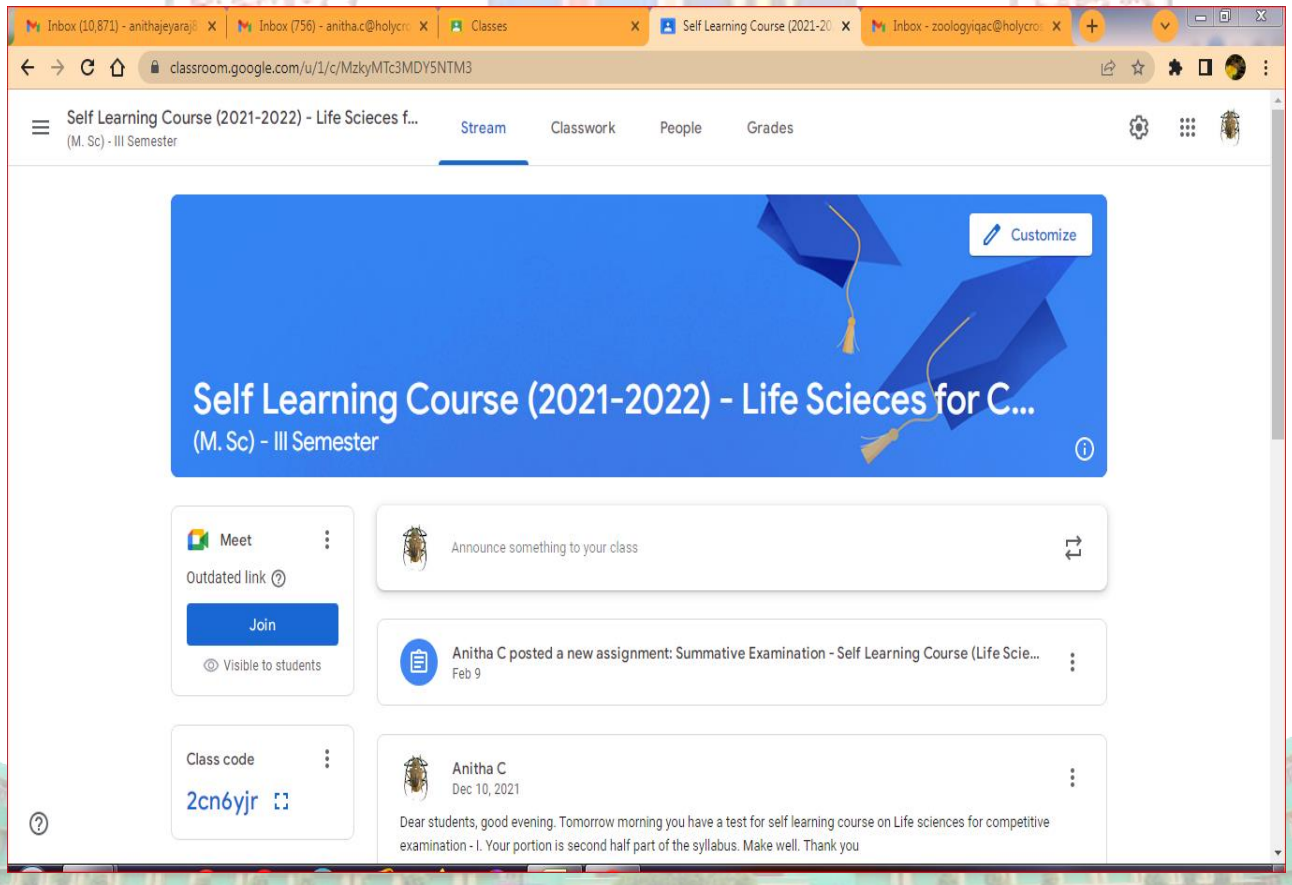
2.2.1 The Institution Assesses the Learning Levels of the Students and Organises Special Programmes to Cater to Differential Learning Needs of the Student

SELF-LEARNING COURSES






HCCNGL Admin |Student
Inbox (620) - erpsupport@holy
erp.holycrossngl.edu.in/DashBoard/STUDENT
HCCNGL ERP
DAFFNI S J
Welcome
DAFFNI S J
Navigation
LMS
Dashboard
FeedBack
Attendance
NME/SLC
Slc Registration
Fee
CertificateCourse
Question Bank
Quiz
Grievance
SOC
Library
Hostel
Transport
Collapse
SLC Course Registration
Home / SLC Course Registration
SLC Course Registration
Choose your SLC Course:
Self Learning Course: Physics for Lectureship Examinations - II
Open
Self Learning Course: Business Communication
Open
Self Learning Course: Economics of Tourism Management
Open
Submit
© 2024 All Rights Reserved by HCCNGL
Type here to search
ENG
12:02
2024-05-18

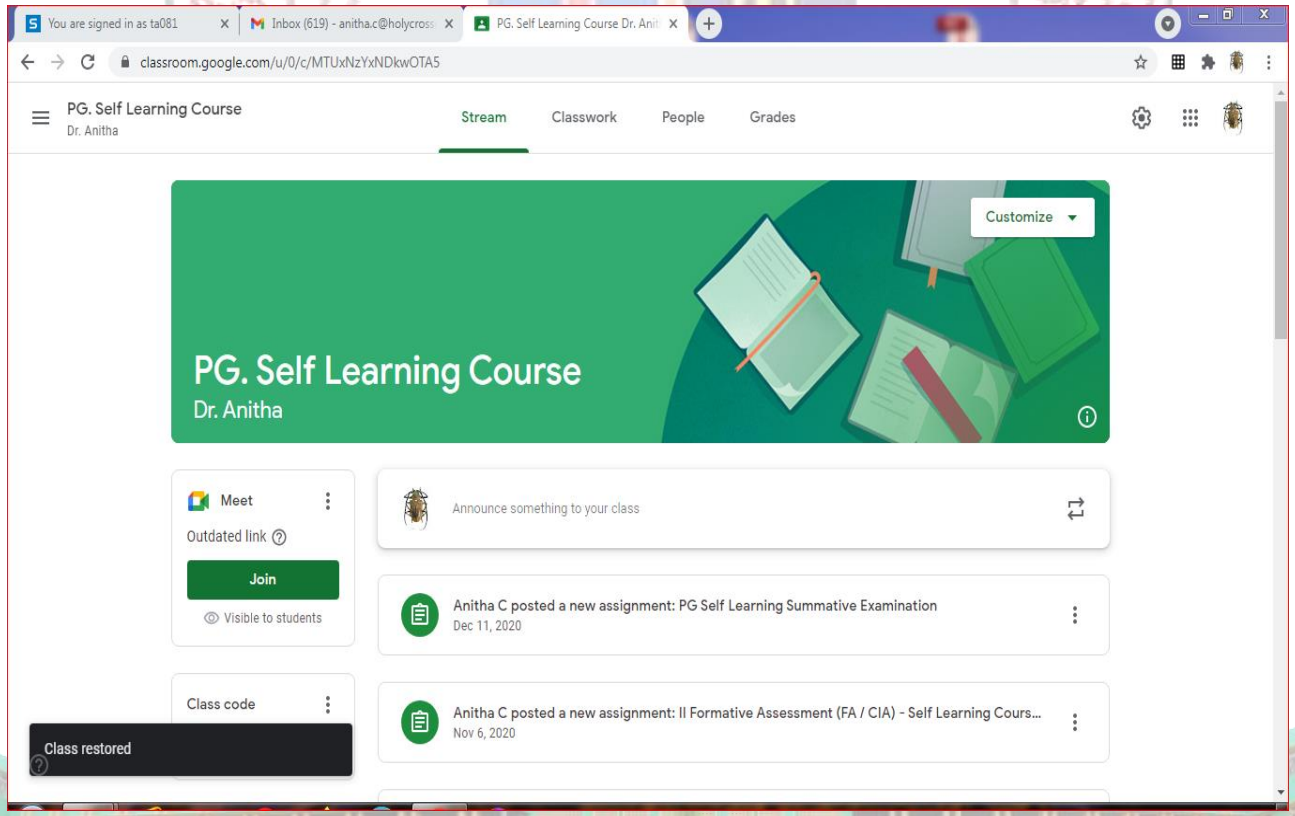

Inbox (10,871) - anithajeyaraj
Inbox (756) - anitha.c@holycr
Classes
Self Learning Course (2021-20
Inbox - zoologyiqac@holycro
classroom.google.com/u/1/c/MzkyMTc3MDY5NTM3
Self Learning Course (2021-2022) - Life Scieces f...
(M. Sc) - III Semester
Stream
Classwork
People
Grades
Customize
Self Learning Course (2021-2022) - Life Scieces for C...
(M. Sc) - III Semester
Meet
Outdated link
Join
Visible to students
Announce something to your class
Anitha C posted a new assignment: Summative Examination - Self Learning Course (Life Scie...
Feb 9
Class code
2cn6yjr
Anitha C
Dec 10, 2021
Dear students, good evening. Tomorrow morning you have a test for self learning course on Life sciences for competitive examination - I. Your portion is second half part of the syllabus. Make well. Thank you

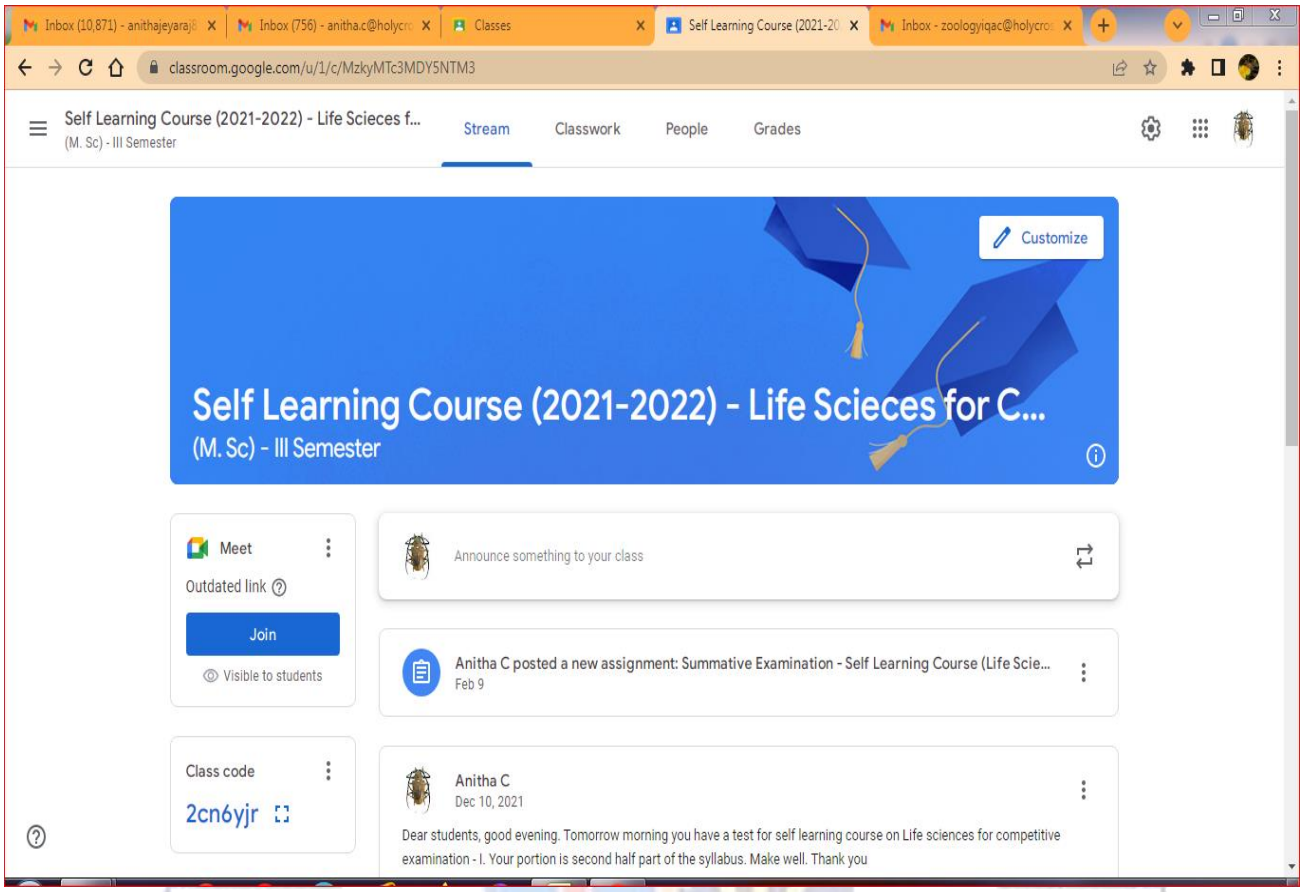
Self Learning Courses opted by the P.G. Students of AIDED Departments - 2020

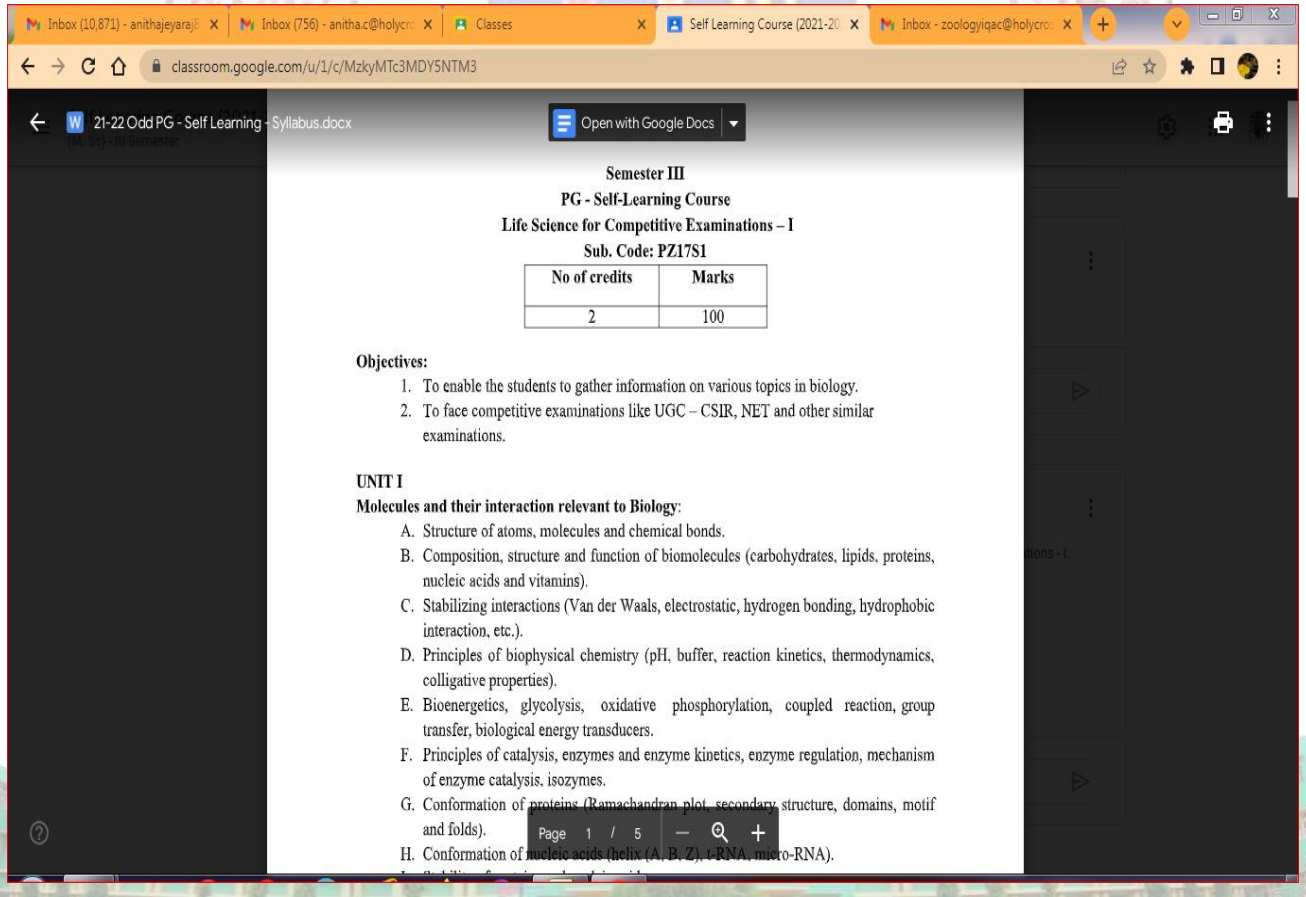
Issued from the Deans' Office on Aug. 24, 2020

Department of Zoology - Life Sciences for Competitive exams I (PZ17S1)

	Full Name with Initials	Department	Reg.No.	Email Address	Class
1	C. M. Hubha	Mathematics	219009	hubhachandran@gmail.com	II Year PG (III Semester)
2	J. Evelyn Priscilla	Zoology	219111	evelynpriscilla2016@gmail.com	II Year PG (III Semester)
3	John Gracy. A	Zoology	219114	johngracy1991@gmail.com	II Year PG (III Semester)
4	S. Muthu Selvi	Zoology	219116	muthuselvims247@gmaiol.com	II Year PG (III Semester)
5	S. Muthu Selvi	Zoology	219115	merginsumi7@gmail.com	II Year PG (III Semester)




Inbox (10,871) - anithajeyaraj
Inbox (756) - anitha.c@holycr
Classes
Self Learning Course (2021-20
Inbox - zoologyiqac@holycr
classroom.google.com/u/1/c/MzkyMTc3MDY5NTM3
Self Learning Course (2021-2022) - Life Scieces f...
(M. Sc) - III Semester
Stream
Classwork
People
Grades
Customize
Self Learning Course (2021-2022) - Life Scieces for C...
(M. Sc) - III Semester
Meet
Outdated link
Join
Visible to students
Announce something to your class
Anitha C posted a new assignment: Summative Examination - Self Learning Course (Life Scie...
Feb 9
Class code
2cn6yjr
Anitha C
Dec 10, 2021
Dear students, good evening. Tomorrow morning you have a test for self learning course on Life sciences for competitive examination - I. Your portion is second half part of the syllabus. Make well. Thank you


Inbox (10,871) - anithajeyaraj
Inbox (756) - anitha.c@holycr
Classes
Self Learning Course (2021-20
Inbox - zoologyiqac@holycr
classroom.google.com/u/1/c/MzkyMTc3MDY5NTM3
21-22 Odd PG - Self Learning - Syllabus.docx
Open with Google Docs
Semester III
PG - Self-Learning Course
Life Science for Competitive Examinations – I
Sub. Code: PZ17S1
No of credits
Marks
2
100
Objectives:
1. To enable the students to gather information on various topics in biology.
2. To face competitive examinations like UGC – CSIR, NET and other similar examinations.
UNIT I
Molecules and their interaction relevant to Biology:
A. Structure of atoms, molecules and chemical bonds.
B. Composition, structure and function of biomolecules (carbohydrates, lipids, proteins, nucleic acids and vitamins).
C. Stabilizing interactions (Van der Waals, electrostatic, hydrogen bonding, hydrophobic interaction, etc.).
D. Principles of biophysical chemistry (pH, buffer, reaction kinetics, thermodynamics, colligative properties).
E. Bioenergetics, glycolysis, oxidative phosphorylation, coupled reaction, group transfer, biological energy transducers.
F. Principles of catalysis, enzymes and enzyme kinetics, enzyme regulation, mechanism of enzyme catalysis, isozymes.
G. Conformation of proteins (Ramachandran plot, secondary structure, domains, motif and folds).
H. Conformation of nucleic acids (helix (A, B, Z), t-RNA, micro-RNA).
Page 1 / 5

			Education (HRE)		
VI	Part III	PC2061	Major Core VIII – Relativity and Quantum Mechanics	6	5
		PC2062	Major Core IX – Digital and Communication Electronics	6	5
		PC2063	Major Core X - Nuclear Physics	5	5
		PC2064 PC2065 PC2066	Major – Elective – III (a) Mathematical Physics (b) Nanophysics (c) Astrophysics	5	4
		PC20P4	Major Practical IV - Physics Lab IV	2	2
		PC20P5	Major Practical V - Physics Lab V	2	2
	Part IV	SEP203	Skill Enhancement Course (*SEC) – Basic Electrical Circuits and Instruments	2	2
		FCV204	Foundation Course IV – Gender Equity studies	-	1
			TOTAL	**180**	**150**

In Part III, the number of courses vary between 16 to 24 for each Department.

Total number of Hours = 180

Total number of Compulsory Credits = 140 +10

Non-academic Courses are mandatory and conducted outside the regular working hours.

Skill Development Programme (Mandatory Certificate Course - 30 hours) is offered to all the I year students.

Courses offered

Self-Learning Courses- Extra Credit Courses

Semester	Course Code	Title of the Course	Credits
III /V	PC20S1	Physics for Competitive Examination – I	2
IV/VI	PC20S2	Physics for Competitive Examination – II	2
III - VI	PC20S3	MOOC Online Course	2

Value Added Courses

Semester	Course Code	Title of the Course	Total Hours
III /V	VAP201	Multimedia Training	30

			Physiology and Metabolism		
	Part IV	SEC203	Skill Enhancement Course (SEC) : Global Environmental Issues	2	2
	Part V	FCV204	Foundation Course IV : Gender Equity Studies	-	1
			TOTAL	**180**	**140+10**

Self-Learning Courses - Extra Credit Course

Semester	Course Code	Title of the Course	Credit
III/ V	BC20S1	Plant Resource Utilization	2
IV/VI	BC20S2	Algal Biotechnology	2
III - VI	BC20S2	Online Course (SWAYAM / NPTEL)	2

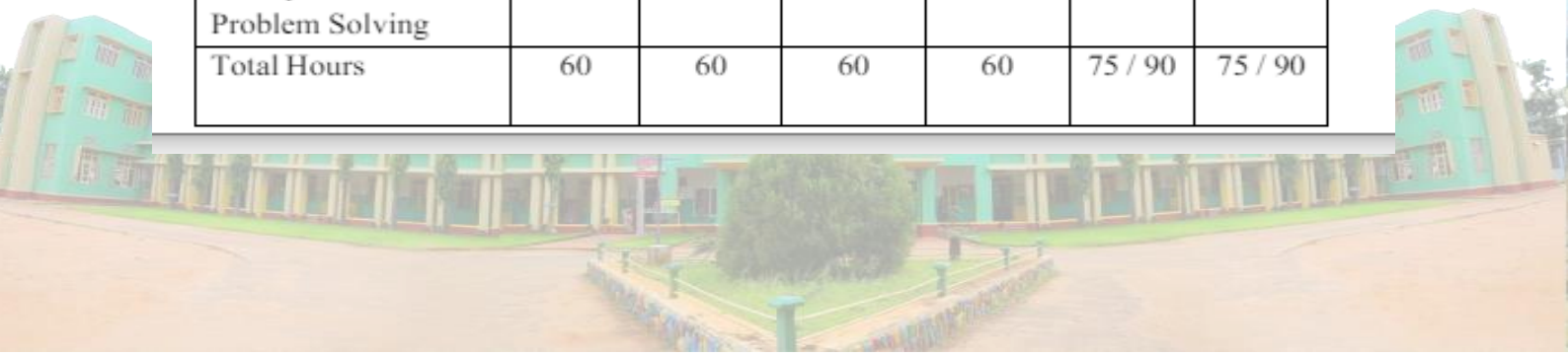
Value Added Courses (Mandatory)

Semester	Course Code	Title of the Course	Total hours
I/II	VAB201	Mushroom Culture Technology	30
III/IV	VAB202	Food Preservation Technology	30

Instruction for Course Transaction

Distribution of total hours for Theory (Major Core)

Components	Sem. I	Sem. II	Sem. III	Sem. IV	Sem. V	Sem. VI
Lecture hours	45	45	45	45	60 / 75	60 / 75
Continuous Internal Assessment Internal Test (2)	5	5	5	5	5	5
Quiz (2)	1	1	1	1	1	1
Class test (3)	3	3	3	3	3	3
Class assignment /Group discussion / Problem Solving	6	6	6	6	6	6
Total Hours	60	60	60	60	75 / 90	75 / 90



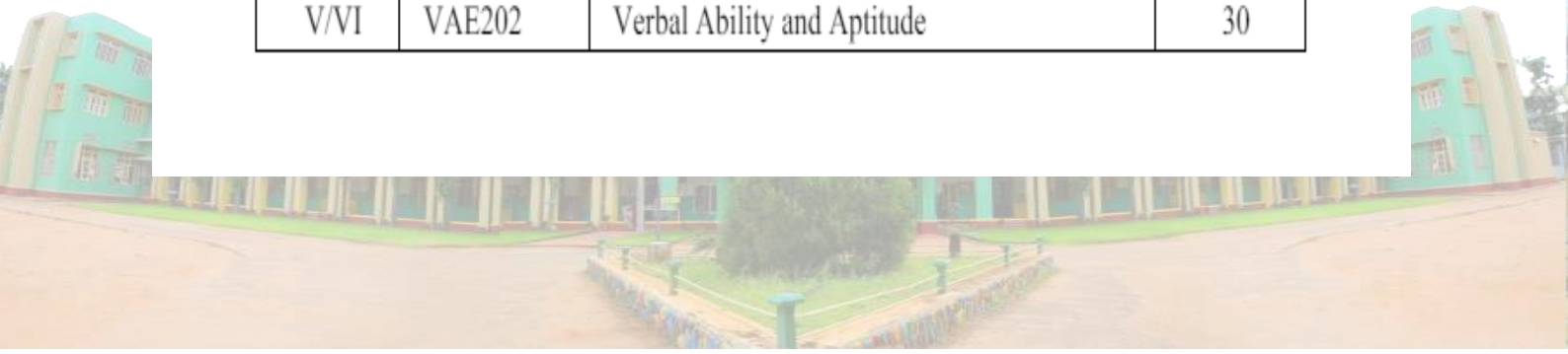
	IV		Environmental Science		
	Part V	FCV203	Foundation Course III- Human Rights Education	-	1
VI	Part III	EC2061	Major Core IX: Fiction	6	6
		EC2062	Major Core X: Marginal Writings	6	6
		EC2063	Major Core XI: Introduction to English Language and Phonetics	6	5
		EC2064	Major Core XII: Eco Literature	6	5
		EC2065 EC2066 EC2067	Elective III: (a) Writing for Media (b) Film and Literature (c) English for Entrepreneurship	4	4
	Part IV	ESK206	Skill Enhancement Course (SEC): Translation: Basic Concepts and Practice	2	2
	Part V	FCV204	Foundation Course IV - Gender Equity Studies	-	1
			TOTAL	**180**	**140+10**

Self-Learning - Extra Credit Courses

Semester	Course Code	Title of the Course	Credits
III/ V	EC20S1	Children's Literature	2
IV/VI	EC20S2	Indian Short Stories	2
III - VI	EC20S3	MOOC Online Course	2

Value Added Courses

Semester	Course Code	Name of the Course	Total Hours
III/ IV	VAE201	Public Relations	30
V/VI	VAE202	Verbal Ability and Aptitude	30



Self Learning – Extra Credit Courses

Semester	Course code	Title of the Course	Hours/ week	Credits
III/V	FC20S1	Health Economics	-	2
IV/VI	FC20S2	Human Development	-	2

Value Added Courses

Semester	Code	Name of the Course	Total Hours
III/IV	VAF 201	Verbal and Non- verbal reasoning – I	30
V/VI	VAF 202	Verbal and Non- verbal reasoning – II	30

Instruction for Course Transaction

Distribution of Total Hours - Major Core

Components	Sem. I	Sem. II	Sem. III	Sem. IV	Sem. V	Sem. VI
Lecture Hours	75	75	60/75	60/75	60/75	75
CIA (Continuous Internal Assessment) (2)	5	5	5	5	5	5