

Holy Cross College (Autonomous)

Nagercoil-629004

Affiliated to Manonmaniam Sundaranar University, Tirunelveli
Nationally Accredited with A+ Grade (CGPA 3.35) by NAAC IV Cycle
An ISO 9001:2015 Certified Institution

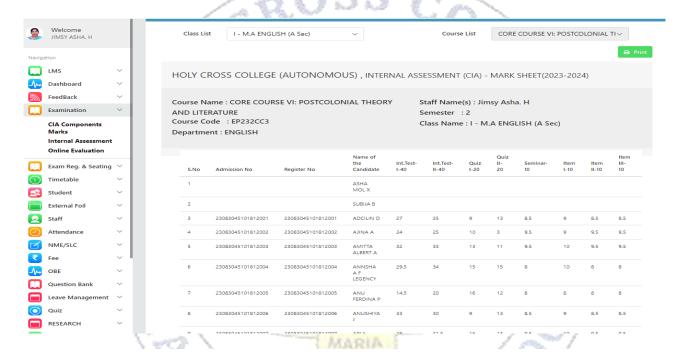
SSR 2019-2020 to 2023-2024

6.5.2 The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms

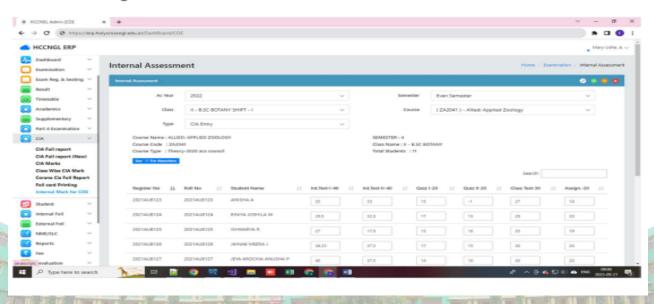
Practice II - Innovative Assessment Strategies

OUTCOME BASED EDUCATION- COGNITIVE LEVELS

Tailor-made Assessment Components to Assess Different Cognitive Levels



Internal Mark Register



Internal Exam Mark Report (CIA Cumulative List)



EVALUATION OF ATTAINMENT OF OUTCOMES

COs attainment: Attainment of course outcomes for each course is calculated through different components included in Continuous Internal Assessments and End semester examination.

Bench marks and Criteria for the attainment of COs:

To meet the expected level of attainment a student must score more than 50% of the marks to assess the attainment of COs. The threshold limit can be fixed based on the level of students. Attainment level 1: If at least 60% of the students met the expected level of attainment. Attainment level 2: If at least 70% of the students met the expected level of attainment. Attainment level 3: If at least 80% of the students met the expected level of attainment.

Attainment process:

Step 1: The faculty should fix a question paper pattern (blue print) of the type of questions that would be asked, the different cognitive levels it would address and the course outcome that the student would attain. The pattern and question paper prepared by respective faculty should be verified by the HoDs. A sample format is given below:

B.Sc. (Name of the program)
Semester (Mention the semester)
Major Core xxx - (Mention the course)
Course Code: xxxx

Assessment summary for End Semester Examination

Course Outcome	Cognitive Level	End Semester examination
		of questions and marks
		Based on K level and CO
CO 1	Remember	3 (3)
CO 2	Understand	8 (41)
CO 3	Apply	3 (3)
CO 4	Analyse	5 (15)
CO 5	Evaluate	1 (8)
	Total	20 (70)

QUESTION PAPER - Blue print

PART	Q.No.		COGNITIVE	LEVEL (CL) with	No. of questio	on and Marks		Total
		K1 – R	K2 - U	K3 - AP	K4- AN	K5 - E	K6 - C	mark
	1.	1(1)						1
Part A	2.			1(1)				1
	3.	1(1)						1
$10 \times 1 = 10 \text{ marks}$	4.				1(1)			1
Ī	5.				1(1)			1
	6.	1(1)						1
	7.			1(1)				1
	8.				1(1)			1
	9.		1 (1)					1
	10.			1(1)				1
Part B	11.a		1 (4)					4
	11.b							
5 x 4 = 20 marks	12.a		1 (4)					4
	12.b							1
	13.a		1 (4)					4
I	13.b							1
	14.a				1 (4)			4
	14.b							1
	15.a		1 (4)					4
	15.b		7					
Part C	16.a		1 (8)					8
	16.b							1
5 x 8 = 40 marks	17.a		1 (8)					8
	17.b		1					1
	18.a				1 (8)			8
	18.b				7			1
Ī	19.a					1 (8)		8
Ī	19.b							
	20.a		1 (8)					8
	20.b							1
No. of CL based Questions with marks		3 (3)	8 (41)	3 (3)	5 (15)	1 (8)		70
No. of CO based Questions		CO 1	CO2	CO3	CO 4	CO 5		70
with marks		3 (3)	8 (41)	3 (3)	5 (15)	1(8)		
Total		3	41	3	15	8		70

The question paper is prepared based on the above blue print.

Sample question paper format:

ampk	question paper format:		
	HOLY CROSS COLLEGE (AUTONOMO)		
	Accredited with 'A+' Grade (CGPA 3.35 - IV Cycle	e) by NA	AC
	Nagercoil - 629 004		
	Kanyakumari District, Tamilnadu.		
	B.Sc. Zoology		
	Semester V		
	Major Core VII - Ecology and Toxicology Course Code: ZC2053	<i>y</i>	
	Question Paper		
Time:	3 hrs.	Max	. marks: 70
			Course
Q.	Ouestions	K	Outcome
No.		Level	Level
	Part A (10 x 1 = 10 marks)		
	Answer all the questions		
1.	Study of the relationship of a group of organisms which are associated together as a unit in relation to its environment is a. Autoecology		
	b. Synecology	R	CO-1
	c. Terrestrial ecology		
	d. Population		
2.	The morphological changes that occur in daphnia as a result of change in temperature is called		
	a. Cyclomorphosis	Ap	CO-3
	b. Regeneration		
	c) Rensch's rule		
	d) Menkin's rule		
3.	The ratio between birth rate and death rate is		
	a) Mortality		
	b) Natality	R	CO-1
	c) Vital index	1	
	d) Growth rate	1	ı

CO-4

CO-2

U

4.	Identify the diagram.	An	CO-4
5.	Match the following and choose the correct answer 1. Effect of an abrupt transition between two communities 2. Region of transition between two communities. 3. A position occupied by a species in a community 4. A distinct species occupying a particular habitat. A B C D a) 1 2 3 4 b) 4 3 2 1 c) 2 1 4 3 d) 3 2 4 1	R	CO-1
6.	What does this image indicate? Give a one-word answer.	An	со-з
7.	Match the following and choose the correct answer. A. Systemic effect B. Immediate effect C. Irreversible effect D. Local effect A B C D a) 1 3 2 4 b) 4 3 2 1 c) 2 3 4 1 d) 3 2 4 1 d) 3 2 4 1	Ар	со-з
8.	Assertion(A): Knock knee syndrome is caused by fluoride. Reason(B): Soil, water and air contain fluorine as fluoride. a. Statement 'A' and Statement 'B' are correct. b. Statement 'A 'and 'B' are wrong. c. Statement 'A' is correct and Statement 'B' wrong. d. Statement 'A' is wrong and Statement 'B' correct.	An	CO-4
9.	What is the cause of red tide? a) Algal bloom b) Aflatoxin c) Acid rain. d) Eutrophication	U	CO-2
10.	The G20 environment meeting was held on 28° July 2023 in Chennai. What was the main area discussed? Answer in one sentence.	Ар	CO-4
	Part B (5 x 4 = 20 marks)		
11.	a. Discuss the different branches of ecology. (OR) Explain mutualism and commensalism as an interspecific relationship.	U	CO-2
12.	a. Explain population growth and regulation. (OR) b. Explain nitrogen cycle and its role in the environment.	U	CO-2
13.	a. Explain the structure of a community. (OR) b. Enumerate the types of animal distribution.	U	CO-2
1.4	Diego di anni		

a. Differentiate toxicokinetics and toxicodynamics.

Explain Bhopal episode and Chernobyl disaster.

Compare bioaccumulation, biomagnification and

b. Distinguish between; i. LC₌ and LD₌

biotransformation.

(OR)

(OR)

ii. in vivo and ex vivo toxic experiments

14.

15.

	Part C (5 x 8 = 40 marks)		
16.	a. Discuss the biological effects of temperature. (OR) b. Summarize the adaptations of desert living animals.	U	CO-2
17.	a. Explain the structure of an ecosystem. (OR) Discuss population growth and regulation.	U	CO-2
18.	a. Analyse the concept of climax and pattern of succession. (OR) Appraise the applications of remote sensing in agriculture, food and fisheries management.	An	CO-4
19.	Assess the toxic effects of heavy metals and radiations to living organisms. (OR) Evaluate the effect of toxicants on hematological and biochemical parameters of fish.	E	CO-5
20.	a. Explain the types of pollutants and its effect on the environment. (OR) b. Explain the different methods of Waste water treatment.	U	CO-2

Step 2: Considering the percentage of marks (related to each COs) asked in Internal test and end semester examination, the average weightage percent of each CO was calculated as an average of internal test/external exams for further calculation of direct attainment.

EXAMINATION - Sample

								ЕХП	ERNA	L									
				CO 1	(6)			CO 2	(29)			CO 3	(22)			CO 4	(13)		70
S. N O	Regist er Num ber	Name of the stude nt	P a r t	P ar t- B	P ar t- C	C O 1 T ot al	P ar t- A	P ar t- B	P ar t- C	C O 2 T ot al	P a rt - A	P ar t- B	P ar b- C	C O 3 T ot al	P ar t- A	P a r t	P ar t- C	C O 4 To tal	Gr an d To tal
1	2021A UZ09 2	VINN ARASI A	2	4	-	6	1	s	13	22	2	3	14	19	2	-	o	2	49
2	2021 AU Z133	AADH ARSH AGK	0	4	-	4	1	s	14	23	2	2	14	18	1	-	4	5	50
3	2021 AU Z134	ABI ESTHE R R	2	4	-	6	0	9	14	23	2	4	13	19	4	-	7	11	59
4	2021 AU Z135	ABINA YA SREES	2	4	-	6	1	6	14	21	2	3	11	16	4	-	2	6	49
5	2021 AU Z136	ABISH A I	2	4	-	6	1	4	11	16	2	2	12	16	4	-	2	6	44
6	2021AU Z138	MONIS HAS	2	4	-	6	1	5	13	19	2	3	14	17	4	-	6	10	54
7	2021AU Z139	ANU FLOW ERCY A	2	4	-	6	1	7	14	22	1	4	14	19	4	-	7	11	58
8	2021AU Z140	ANUS HA K	0	0	-	0	0	2	0	2	0	o	3	3	1	-	0	1	7
9	2021 AU Z141	DEEN U.F	2	2	-	4	1	6	13	20	2	2	10	14	3	-	1	4	42
10	2021 AU Z142	DHAR SHINI N	2	4	-	6	0	10	15	25	0	4	16	20	2	-	4	6	58
11	2021AU Z144	KARU NYA R	1	4	-	5	1	7	15	23	2	0	7	9	3	-	8	11	40
12	2021AU Z145	H MITHI YAL J	1	3	-	4	1	7	11	19	0	2	12	14	1	-	4	5	42
13	2021 AU Z146	MAT HIJA M	1	4	-	5	1	11	8	20	2	o	11	13	2	-	4	6	48
14	2021AU Z147	NISO LIN RAJEE I	2	4	-	6	o	9	15	24	2	4	14	20	3	-	s	11	61
15	2021AU Z150	REMI THAS NIS	2	3	-	5	0	5	6	11	2	3	6	11	3	-	2	5	32
16	2021AU Z151	SARA NYA K	2	4	-	6	1	12	15	28	2	4	15	21	4	-	7	11	66
17	2021AU Z152	SELV A	2	4	-	6	0	12	15	27	1	3	15	19	4	-	o	4	56

		LEKS			_								_						
		HMIS																	
18	2021 AU Z153	SHAF NA SHERI N M	2	3	-	5	1	6	5	12	2	2	10	14	4	-	2	6	37
19	2021.AU Z154	UBAS ANA J	2	4	-	6	0	12	15	27	2	4	14	20	4	-	6	10	63
20	2021AU Z155	VARS HINI J	2	4	-	6	1	5	14	20	1	3	15	19	3	_	2	5	50
21	2021 AU Z407	AKIS HA MOLS	1	2	-	3	1	10	8	19	2	4	6	12	3	-	0	3	37
22	2021 AU Z408	MIYA T	2	2	-	4	1	7	13	21	2	3	10	15	3	-	7	10	47
23	2021.AU Z443	ABISH A R	2	3	-	5	1	3	14	18	2	4	11	17	3	-	3	6	46
24	2021.AU Z449	BERCL IN S	2	4	-	6	1	12	13	26	2	4	14	20	4	-	8	12	64
25	2021 AU Z450	PRADI SHAS	2	3	-	5	1	4	14	19	2	4	16	22	3	-	0	3	49
26	2021 AU Z451	SAHA YA MINI A	2	4	-	6	1	s	14	23	2	4	13	19	3	-	2	5	53
Perce	entage of s	the target		nore t	han	96				89				92				54	92
		Level				3				3				3				2	3

Measuring Course Outcomes attained through External Examinations: Target

Attainment level 1: 50% students scoring 50% and more marks
Attainment level 2: 60% students scoring 50% and more marks
Attainment level 3: 70% students scoring 50% and more marks
Measuring Course Outcomes attained through Internal Tests:

Attainment level 1: 50% students scoring 50% and more marks Attainment level 2: 60% students scoring 50% and more marks Attainment level 3: 70% students scoring 50% and more marks

DIRECT CO ATTAINMENT -INTERNAL AND EXTERNAL -sample

СО	Assessment through continuous internal assessment test (Average) %	
CO1	50	96
CO2	92	89
CO3	75	92
CO4	73.5	54

The course outcomes for all the courses are calculated in terms of percentage using the formula.

CO x in % =
$$\frac{\text{Marks obtained by the students in COx}}{\text{Maximum marks allotted in COx}}$$
 X100

Where, x= [1 to N], N= Number of COs.

Each course outcome is calculated for all the students based on marks obtained by the students.

Where, x= [1 to N], N= Number of Course Outcome

Course Outcome	Assessment Tool	Percentage of students scoring more than the target	Attainment level	Attainment of Course Outcome		
CO1	Internal Test (40%)	50	1	(0.4x1) + (0.6x3) = 2.2		
	End Semester Examination (60%)	96	3			
CO2	Internal Test (40%)	92	3	(0.4x3) + (0.6x3) = 3		
	End Semester Examination (60%)	89	3			
CO3	Internal Test (40%)	75	3	(0.4x3) + (0.6x3) = 3		

	End Semester Examination (60%)	92	3	
CO4	Internal Test (40%)	74	3	(0.4x3) + (0.6x1) = 1.8
	End Semester Examination (60%)	54	1	

Formula: Direct Attainment = 0.4 x Internal Test Average +0.6 x End Semester Examination average

CO ATTAINMENT LEVEL

Attainment level 1: 50% students scoring 50% and more marks Attainment level 2: 60% students scoring 50% and more marks Attainment level 3: 70% students scoring 50% and more marks

Indirect attainment

Course exit survey (Sample)

Course exit survey can be conducted on the defined COs or related to course outcomes of that course.

Questionnaire for students on Course Exit Survey

Program : Semester : Course title : Course code : Name : Register Number :

СО	I am able to	Strongly agree 100	Agree 75	Neutral 50	Disagree 25	Strongly disagree 0
CO - 1	define abiotic, biotic and limiting factors, community structure, ecological succession, wild life conservation and toxicants.					
CO - 2	comprehend the physical and chemical properties of environment, biological effects, biogeochemical cycles, wild life conservation, environmental pollution and toxicology.					
CO - 3	identify the biotic factors, characteristics of communities, endangered species and causes for environmental problems.					
CO - 4	assess the structure and function of ecosystem, community, habitat for sustainable management of environmental system and for the remediation.					
CO - 5	evaluate the impact of environment changes on the biosphere.					

Indirect Method of CO Assessment: (Survey Based) - Weightage: (20%)

Course Outcomes	Nun		Studen Rating	t respo	nse	Total response	Attainment %	Attainment grade
	100	75	50	25	0			
CO1	15	10	3	-	-	28	15x100+10x75+3x50/28=86	86/100x3=2.57
CO2								
CO3								
CO4								
CO5								

100-Strongly agree, 75-Agree, 50 - Neutral, 25-Disagree, 0-Strongly disagree

CO ATTAINMENT TEMPLATE

Course Outcomes	Direct Attainment	Indirect attainment
CO1	2.2	2.57
CO2		
CO3		
CO4		
CO5		

CO ATTAINMENT AND ATTAINMENT GAP TEMPLATE

CO	Target	Direct attainment	Indirect attainment	Total CO attainment	Gap (Target- Total)
CO-	2	2.2	2.57	2.27	+0.27
1					
CO-					
2					
CO-					
3					
CO-					
4					
CO-					
5					

Target to be fixed by the course in-charge

Formula: Total CO attainment = (0.80xdirect) + (0.20x indirect)

POs AND PSOs ATTAINMENT

Step 1: The course outcomes for all courses were mapped with defined POs and PSOs with correlation levels -, 1, 2, and 3. The correlation levels were defined as: No correlation – Correlation level "-", Low - Correlation level 1 Moderate - Correlation level 2, High - Correlation level 3. Attainment of each COs for all courses was calculated as described above.

Step 2: Attainment values of respective COs were mapped against their correlated POs and PSOs. Average values for each PO/PSO were considered as final attainment for the respective course. Similarly, attainment values of COs with each correlated POs and PSOs have been calculated for all courses.

Mapping with Programme Outcomes: sample

Course	outcome						В				
CO (A	s	P01	P02	P03	P04	P05	P06	PSO1	PSO2	PSO3	PSO4
CO1	2.2	3	1	3	2	2	1	3	3	3	3
CO 2	3	3	3	3	2	3	2	3	3	2	2
CO 3	3	3	2	3	2	2	2	2	3	3	1
CO 4	1.8	3	2	3	2	3	2	3	3	3	3
CO 5	0.8	3	2	3	2	3	3	3	3	3	3
Total	10.8	15	10	15	10	13	10	14	15	14	12
Average	1.8	3	2	3	2	2.6	2	2.8	3	2.8	2.6

CO-PO attainment

Calculation of PO1 = (Column A \times Column B) / Sum (Column B) = 2.16

Calculation of PO2 = (Column A x Column B) / Sum (Column B) = 2.24

Calculation of PO3 = (Column A x Column B) / Sum (Column B) = 2.16

Calculation of PO4 = (Column A x Column B) / Sum (Column B) = 2.16

Calculation of PO5 = (Column A x Column B) / Sum (Column B) = 2.09

Calculation of PO6 = (Column A x Column B) / Sum (Column B) = 2.08

CO-PSO attainment

Calculation of PSO1 = (Column A x Column B) / Sum (Column B) = 2.1

Calculation of PSO2 = (Column A x Column B) / Sum (Column B) = 2.16

Calculation of PSO3 = (Column A x Column B) / Sum (Column B) = 1.96

Calculation of PSO4 = (Column A x Column B) / Sum (Column B) = 1.95

Indirect assessment was based on various surveys for POs and PSOs attainments like Graduate Exit Survey, Alumni Survey, and parent's feedback and taking their average.

Indirect attainment

Graduate exit survey

Kindly rate the following criteria on a scale of 1-5.

S.No	Questions	PO		Criteri	a Rating		
			Excellent	Very Good	Good	Average	Poor
1	How will you rate your ability to utilize scientific knowledge to pursue higher studies in the relevant field?	1					
2	What is the level of competency you have developed to create innovative ideas and enhance entrepreneurial skills for economic independence?	4					
3	How far the skills that you have learnt were helpful to face challenging competitive examinations that offer rewarding careers?	2					
4	Leadership qualities gained because of the initiatives taken by the college and the respective departments to reflect upon green initiatives and take responsible steps to build a sustainable environment.	3					
5	Capability to handle ethical issues with social responsibility	5					
6	Confidence to communicate effectively and collaborate successfully with peers to become competent professionals.	6					

Excellent 4. Very Good 3. Good 2. Average 1. Poor

Alumni Survey Form

Kindly rate the following criteria on a scale of 1-5.

Excellent 4. Very Good 3. Good 2. Average 1. Poor (Criteria Rating)

Overall Rating for attainment of your PEOs & POs.

- The curriculum has supported the higher education/ employability/ entrepreneurship need.
- Benefit from value added and certificate courses seminars /conferences /workshops and internship conducted during your course.
- Communication and presentation skills and leadership qualities obtained from the cocurricular and extracurricular activities has enriched the career.
- Competence to function as a team and to show professional efficiency in your job.
- Extent of Ethical, social and environmental values inculcated, helping you to relate issues with societal needs.

Step 3: Final Attainment of POs and PSOs:

- Direct attainment: Obtained by taking averages of all CO-PO and CO-PSO attainment matrices defined for all courses for all semesters.
- Indirect attainment: Obtained from attainment values of POs and PSOs of surveys including

Graduate exit, Alumni, and Parents feedback. Final attainments were calculated by considering 80% of direct assessment & 20% of the indirect assessment.

PROGRAM LEVEL PO & PSO DIRECT ATTAINMENT:

The PO and PSO attainment for Program is calculated using the following formula.

POm Direct Attainment =
$$\frac{\sum_{i=1}^{x} POm \ Attainment \ of \ course(i)}{x}$$

Where, m = Program Outcomes varies from 1 to 12 X =Number of Courses mapped with POm

PSOm Direct Attainment =
$$\frac{\sum_{i=1}^{x} PSOm \ Attainment \ of \ course(i)}{x}$$

Where, m = Program Specific Outcomes varies from 1 to 4 X = Number of Courses mapped with PSOm

PO- DIRECT AND INDIRECT ATTAINMENT -Template

PO	Direct attainment (Based on CO-PO attainment)	Indirect attainment (Based on exit survey)	Total PO attainment
PO - 1			
PO - 2			
PO - 3			
PO - 4			
PO - 5			

Total PO attainment: (0.80 x direct) + (0.20 x indirect)

ACTION TAKEN

Levels of achievement are set by the OBE committee in discussion with the experts based on last three year's results. These levels will be reviewed and will be updated each year by incorporating the previous year's result.

OBE attainment results will be analyzed department wise and necessary actions will be taken to improve the level of attainment if it is low or no attainment. In addition, each department will pursue initiatives to improve the quality of teaching and syllabus to increase the target value.

CONCLUSION

Student progress mapping helps teachers identify the academic strength and weakness and assess the outcome attainment of each student. OBE attainment is reviewed department wise and remedial measures are taken when the attainment value is less than the target value in terms of curriculum, teaching, learning and evaluation. Overall, this assessment process enables the college to identify areas for improvement, address curricular gaps, and bridge the same to enhance the overall quality of education provided to the students.

RESULT ANALYSIS

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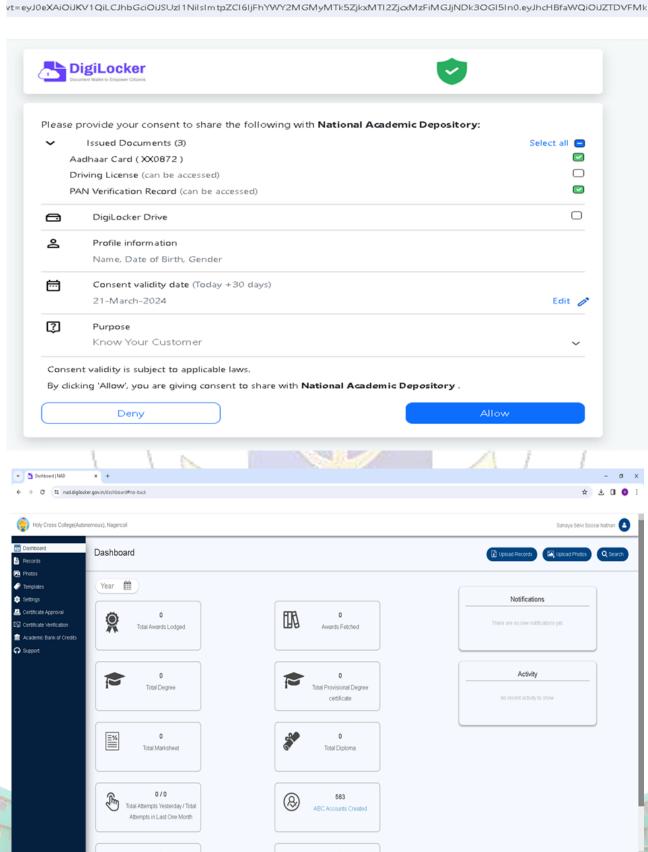
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	Roject Pa soll	100		Sec. 18.		2)		Rogart PG 20PR	21	21	100)	
n I	Studies and Briding Po 2011		ş	19	1	J			Straline and Bonding PG 2011	16	16	100%
7.44	Reacton Medical and Observersid PG 2012	1	3	1	3	ı	IMS	Rection Mechanism and Stereochemidy PG 2012	14	16	1007	
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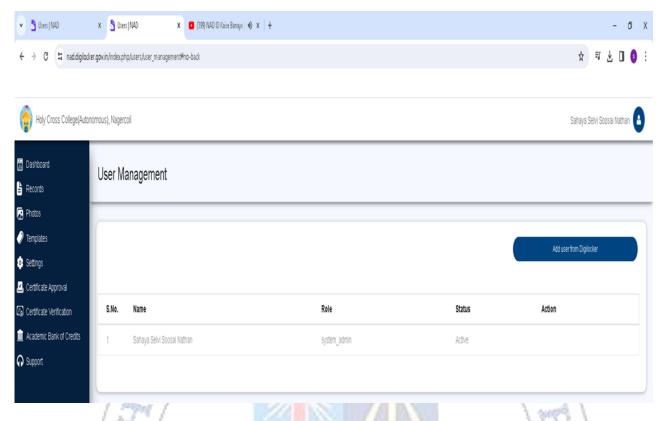
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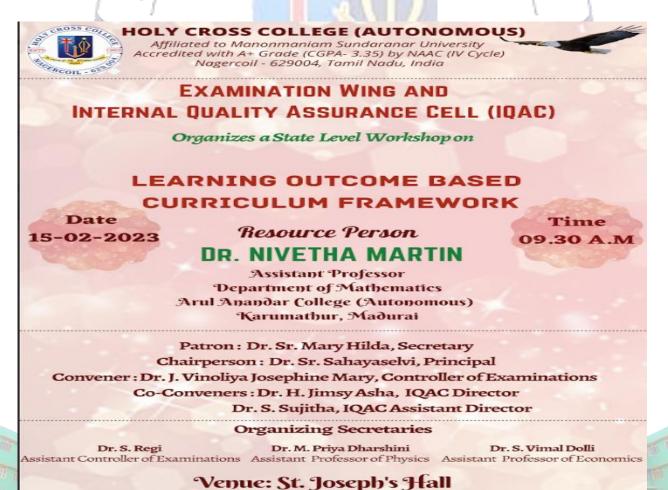
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Time: 09.30 A.M

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Principal
Holy Cross College (Autonomous)
Tiruchirapalli

DR. HORNE IONA AVERAL

IQAC Director and Associate Professor in Zoology Holy Cross College (Autonomous) Tiruchirapalli

Patron: Dr. Sr. Mary Hilda, Secretary Chairperson: Dr. Sr. Sahayaselvi, Principal Convenor: Dr. H. Jimsy Asha, IQAC Director Co-Convenor: Dr. S. Sujitha, IQAC Assistant Director

Organizing Secretaries

Dr. M. Justin Buela, Assistant Professor of Tamil Dr. P. T. Arokya Glory, Assistant Professor of Zoology Dr. A. Delphin, Assistant Professor of Tamil

Venue: St. Joseph's Hall



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Dr. P. Sathya
Vice Principal
Assistant Professor of English
Holy Cross College (Autonomous)
Nagercoil

Patron : Dr. Sr. Mary Gilda Chair Person : Dr. Sr. Sahayaselvi Nodal Officer : Dr. V. Shally Program Coordinator : Dr. S. Prakash Shoba

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