Holy Cross College (Autonomous)

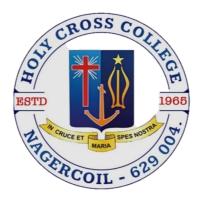
Accredited with A⁺ by NAAC (CGPA 3.35)

Nagercoil, Kanyakumari District, TamilNadu, India.

Website: www.holycrossngl.edu.in

Affiliated to

Manonmaniam Sundaranar University, Tirunelveli



Syllabus with CBCS & LOCF

GUIDELINES FOR POSTGRADUATE PROGRAMME

2023-2026

Vision

Imbibing the Spirit of the Holy Cross, the institution envisions a harmonious society by empowering young women for global competency and ecological sustainability through holistic approach with innovative skills.

Mission

- 1. To provide quality education and to promote scholarly activities catering to global competency.
- 2. To nurture participatory leadership to enhance social consciousness and social responsibility.
- 3. To uphold ethical values of honesty, personal accountability and transparency through professional commitment.
- 4. To create global professionals and entrepreneurs with innovative spirit and zeal.
- 5. To create empowered women of competence, commitment and compassion.
- 6. To instill in students the awareness of inter connectedness between human and nature.

PG Programme Educational Objectives (PEOs) ARTS & SCIENCE

POs	Upon completion of M.A./ M. Sc. /MSW Degree Programme, the graduates will be able to:	Mapping with Mission
PEO1	apply scientific and computational technology to solve socio	M1, M2
	ecological issues and pursue research.	
PEO2	continue to learn and advance their career in industry both in	M4 & M5
	private and public sectors	
PEO2	develop leadership, teamwork, and professional abilities to	M2, M5 &
	become a more cultured and civilized person and to tackle the	M6
	challenges in serving the country.	

PG Programme Educational Objectives (PEOs) - COMMERCE

POs	Upon completion of M.Com Degree Programme, the	Mapping with
	graduates will be able to:	Mission
PEO - 1	utilize computational technology to solve social and financial	M1& M2
	issues and to pursue research.	
PEO - 2	exercise professional skills, values, team spirit and leadership	M2, M4 & M5
	to face challenges and to contribute building the nation.	
PEO - 3	continue to learn and advance their career in industry both	M5 & M6
	public and private sectors, government and academia.	

PG Programme Outcomes (POs) -SCIENCE

PO	Upon completion of M.Sc. Degree Programme, the graduates will be able to:	Mapping with PEOs
PO1	apply their knowledge, analyze complex problems, think independently, formulate and perform quality research.	PEO1 & PEO2
PO2	carry out internship programmes and research projects to develop scientific and innovative ideas through effective communication.	PEO1, PEO2 & PEO3
PO3	develop a multidisciplinary perspective and contribute to the knowledge capital of the globe.	PEO 2
PO4	develop innovative initiatives to sustain ecofriendly environment	PEO1, PEO2
PO5	through active career, team work and using managerial skills guide people to the right destination in a smooth and efficient way.	PEO 2
PO6	employ appropriate analysis tools and ICT in a range of learning scenarios, demonstrating the capacity to find, assess, and apply relevant information sources.	PEO1, PEO2 & PEO3
PO7	learn independently for lifelong to execute professional, social and ethical responsibilities promoting sustainable development.	PEO3

PG Programme Outcomes (POS) - ARTS

PO	Upon completion of M.A./MSW Degree Programme, the	Mapping with
10	graduates will be able to:	PEOs
PO1	enhance in-depth learning by using innovative technological	PEO1
	sources	
PO2	design and undertake individual research which will	PEO1, PEO2 &
102	contribute to the future ideological and societal development	PEO3
PO3	integrate various theories and methodologies relating to social	PEO 2
103	and environmental contexts.	
PO4	excel in competitive examinations, face interviews and handle	PEO 2& PEO3
104	real life situations.	
PO5	articulate critically to address the emerging national and	PEO1, PEO2 &
103	global challenges with an ethical outlook.	PEO3
PO6	perform the professionalism and team spirit and exhibit	PEO 2& PEO3
100	leadership, communication and managerial skills.	
	learn independently for lifelong to execute professional,	PEO3
PO7	social and ethical responsibilities promoting sustainable	
	development	

PG Programme Outcomes (POs) - COMMERCE

PO	Upon completion of M. Com Degree Programme, the graduates will be able to:	Mapping with PEOs
PO1	apply high level knowledge and skills in various fields of commerce	PEO1
PO2	Obtain opportunities in research, writing, communication and publication skills.	PEO2 &PEO3
PO3	identify and analyse functional management issues at various levels of career advancement	PEO2
PO4	develop competency and skills to pursue higher level programmes in commerce and industry	PEO2 &PEO3
PO5	function effectively as a member or leader in teams by demonstrating soft skills, coping skills and human values	PEO1, PEO2 &PEO3
PO6	sensitize professional ethics and societal needs which lead them for holistic development	PEO2 &PEO3
PO7	learn independently for lifelong to execute professional, social and ethical responsibilities promoting sustainable development	PEO3

Regulations for the PG Programme

(For the candidates admitted from the academic year 2023-2024 onwards)

1. Eligibility

(i) For Admission: A candidate who is a graduate of this college or any other recognized University in the main subject/subjects as given below against each or who has passed an examination accepted as equivalent thereto by the Syndicate of Manonmaniam Sundaranar University, Tirunelveli, is eligible for admission.

ARTS

S.No.	Name of the	Eligibility	Medium of
	Programme		Instruction
1.	M.A. English	A pass in B.A. English	English
	(Aided & Self-		
	Financed)		
2.	M. A. History	A pass in B. A. History	English
	(Self-Financed)		
3.	M.A. Economics	A pass in B.A. Economics	English
	(Self-Financed)		
		A pass in B. Com. / Bank	
	M.Com.	Management /Computer	
4.	(Self-Financed)	Applications/ Financial	English
		Management/B.Com. (Applied) /CA-	8
		Operation/ B.B.A. and other related	
		Programmes equivalent to B.Com.	
5.	MSW (Social Work)	A pass in any degree	English
	(Self-Financed)		

SCIENCE

S.No.	Name of the	Eligibility	Medium of
	Programme		Instruction
1.	M.Sc. Mathematics	A pass in B.Sc. Mathematics	English
	(Aided &Self-Financed)		
2.		A pass in B. Sc Physics/ B.Sc.	English
	M.Sc. Physics	Electronics/ Applied Physics / Four	
		year Physics (Honours)	
3.	M.Sc. Zoology	A pass in B.Sc. Zoology	English
4.	M.Sc. Chemistry	A pass in B.Sc.Chemistry	English
	(Self-Financed)		
5.	M.Sc. Botany	A pass in B.Sc. Botany	English
	(Self-Financed)		

6.	M.Sc. Computer Science	A pass in B.Sc. Computer Science	English
	(Self-Financed)		

ii) Degree

The candidates shall have subsequently undergone the prescribed Programme of study in Holy Cross College (Autonomous) affiliated to the Manonmaniam Sundaranar University for a period of not less than two academic years comprising four semesters, passed the examinations prescribed and fulfilled such conditions as have been prescribed there of.

2. Duration

The duration of PG Programme is for a period of two years. Each academic year shall comprise of two semesters, viz. Odd and Even semesters. Odd semester shall be from June to October / November and Even Semester shall be from November / December to April. There shall be not

less than 90 working days which shall comprise 450 teaching clock hours for each Semester (excluding the days for the conduct of end-semester examinations).

3. LOCF with CBCS System

Learning Outcome-Based Curriculum Framework is a student-centric teaching and learning methodology where the course delivery and assessment are planned to achieve, stated objectives and outcomes. It focuses on measuring performance of the student i.e. outcomes at different levels. The main feature of the CBCS is to make postgraduate education student centric, allowing students to choose inter-disciplinary, intra-disciplinary courses, skill-oriented courses (even from other disciplines according to their learning needs, interests and attitude) with optimal flexibility for students on par with global standards.

In keeping with the spirit of CBCS based on the norms of UGC, the curriculum has been restructured once in every three years since the college was conferred with the autonomous status in 2007- 2008.

A PG student may take up an Internship/ Summer Training Programme relevant to the subject in any reputed institution for a period of twenty-five days, in order to develop knowledge and skills, and equip for career. This programme was included within the curriculum with one credit under curriculum restructuring from 2011-12.

4. Courses

I. Curricular Courses:

The following are the various categories of courses offered in the PG programme:

Arts and Commerce - Core Courses, Elective Courses

Science – Core Courses, Lab Courses, Elective Courses

(i) Core Courses:

These courses should compulsorily be studied by a candidate as a core requirement. They provide basic understanding of the main discipline.

(ii) Elective Courses:

The college provides all information to students regarding Elective Courses as to enable them to choose the relevant ones.

(iii) Core Project:

Each candidate shall be required to take up an individual project of regional relevance and submit it at the end of the third semester. The Head of the Department shall assign the Guide who, in turn, will suggest the Project Work to the student in the beginning of the final year. The Project will be evaluated by an internal and an external examiner nominated by the Controller of Examinations. The candidate concerned will have to defend her Project through a Viva-voce.

(iv) Skill Enhancement Course (SEC):

These courses focus on developing skills or proficiencies in the student, and aim at providing hands-on training.

(v) Internship/ Industrial Activity:

Internship during the first year vacation, i.e. during summer vacation between semester II and III for at least twenty five days, will help the students gain valuable work experience, that connects classroom knowledge to real world experience and to narrow down and focus on the career path. Internship Report should be submitted to the Controller of Examination through respective departments.

(vi) Extension Activity:

Community Outreach Activities (UBA) is offered in Semester IV

II. Co-curricular Courses:

(i) Life Skill Training I &II: (1 credit each)

Life Skill Training is offered to the PG students in order to mould them into responsible individuals. External Examination is conducted at the end of the II & IV Semesters.

(ii) Field Project:

Minimum seven days with one credit is mandatory for all I PG students to undertake at the end of semester I which has to be relevant to society.

(iii) Specific Value-added Courses:

Students have to undergo the courses in the discipline.

(iv) Generic Value-added Courses:

Students can choose the courses offered by the institution.

(v) Massive Open Online Courses (MOOCs):

The students have to undergo any 4 weeks course of their choice to earn the mandatory 1 credit. They can earn extra 2 credits by completing 8 or 12 weeks course (maximum 2 courses).

(vi) Library Hour:

One hour per week is allotted as library hour which can be allocated by the departments.

5. Course Coding:

The following code system (11 alphanumeric characters) is adopted for Post Graduate courses:

Department Code	PG	Year of Revision	Semester	Course Specification	Course number
X	P	23	1-4	CC/CP	1,2,3 etc

Course Specifications:

CC - Core Course IS- Internship

CP- Core Practical SE – Skill Enhancement

PW- Project Work & viva-voce FP- Field Project

6.Course Structure

(i) Academic Courses:

Distribution of Hours and Credits

Course		SEME	Total			
	I	II	III	IV	Hours	Credits
Core Course – Theory &	7(5) +	6(5)+	6(5) +	6(5) +	74	5
Lab	7(5) +	6(5) +	6(5) +	6 (5)		7
Lau	6(4)	6(4)	6(5) +			
			6 (4)			
Elective Course	5 (3) +	4 (3) +	4(3)	4 (3)	26	1
	5 (3)	4 (3)	-	-		8
Core Project		-		10 (7)	10	7
Skill Enhancement Course		4(2)	2 (2)	4(2)	10	6
Internship/ Industrial			(2)		-	2
Activity			, ,			
Extension Activity				(1)	-	1
Total	30 (20)	30 (22)	30 (26)	30 (23)	120	91

Total Number of Hours =120 (ii) Co-curricular Courses

Course	SEMESTER				Total	
	I	II	III	IV	Credits	
Life Skill Training –I	-	(1)	-	-	1	
Life Skill Training –II	-	-	-	(1)	1	
Field Project	(1)		-		1	
Specific Value-Added	(1)		(1)		2	
Courses	(1)		(1)		2	
Generic Value-Added		(1)		(1)	2	
Courses		(1)		(1)	2	
MOOC		(1)		(1)	2	
Community Engagement		(1)			1	
Activity (UBA)	(1)		1			

Total Number of Credits = 91 + (10)

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

7. Credits

Credit refers to the weightage given to a course, usually in relation to the instructional hours assigned to it and a quantum of work a student is required to put in for a particular course. The credits of a Course should be less than the hours allotted to it. The total minimum credits, required for awarding PG Degree is 91 +

(9).

8. Extra Credits (Maximum 10 credits)

Extra credits can be acquired by taking up the following:

- i. **MOOCs / Self –Learning Courses -** They can earn extra 2 credits by completing 8 or 12 weeks course (maximum 2 courses).
- ii. **Sports Representation** (Maximum 5 credits)

International level - 5 Credits
National level - 4 Credits
State level - 3 Credits
University level - 2 Credits

District level - 1 Credit

iii. Publication in Journals

Peer-reviewed International/National Journals - 1 credit

SCOPUS / Web of Science (Science Disciplines) (max.3 papers) - 2 credits

UGC Care List – Category II (Arts and Humanities Disciplines) (max.3 papers)- 2 credits

iv. Innovative Prototypes & Business models

- 2 credits

v. Startup Ventures: Initiating startups during the period of

pre-incubation, incubation and startup

- 5 credits

9. CBCS for PG Programme

Components	No.	of Credit/Cours	e Total
	Courses		
Core Course/Lab Course	12	4-5	57
Elective Course	6	3	18
Project	1	7	7
Skill Enhancement Course	3	2	6
Internship/ Industrial Activity	1	2	2
Extension Activity	1	1	1
Co-curricular Courses			
Life Skill Training	2	1	2
Field Project	1	1	1
Specific Value-added Course	2	1	2

Generic Value Added Courses	2	1	2
MOOC	2	1	2
Community Engagement Activity	1	1	1
Total			91 + 10

10. Pedagogy

Each Course is designed with Lectures / Tutorials / Laboratory or Field Work / Seminar /Practical Training / Assignments or Report Writing/ Book review / Group Discussion/Flipped / Blended/ Open Book test/ Problem Solving/ Inquiry based Learning/ Debate/ Experiential Learning etc. to meet effective teaching, learning and evaluation requirements.

11. Examination Pattern

i) Core Course / Elective Course

Internal: External-25:75

Continuous Internal Assessment (CIA) Internal Components and Distribution of Marks

Components	Marks
Internal test (2) (40 marks)	10
Quiz (2) (20 marks)	5
Seminar (10 marks)	5
Assignment: (Model Making, Exhibition, Role Play, Group Discussion,	5
Problem Solving, Class Test, Open Book Test (Minimum three items	
per course) (30 marks)	
Total	25

Question Pattern

Internal Test	Marks	External Exam	Marks
Part A 4 x 1 (No choice)	4	Part A 10 x 1 (No choice)	10
Part B 3 x 4(Internal choice)	12	Part B 5 x 6 (Internal choice)	30
Part C 3 x 8 (Internal choice)	24	Part C 5 x 12 (Internal choice)	60
Total	40	Total	100

ii) Lab Course:

Ratio of Internal and External= 25:75

Total: 100 marks

Internal Components and Distribution of Marks

Internal Components	Marks
Performance of the Experiments	10

Regularity in attending practical and submission of records	5
Record	5
Model exam	5
Total	25

Question pattern

External Exam	Marks
Major Practical	75
Minor Practical / Spotters / Record	75
Total	75

iii) Skill Enhancement Course

Ratio of Internal and External = 25: 75

Internal Components and Distribution of Marks

Components	Marks
Internal test (2)	10
Quiz (2)	5
Assignment: (Model Making, Exhibition, Role Play, Album, Group	10
Activity (Mime, Skit, Song) (Minimum three items per course)	
Total	25

Question Pattern

Internal Test	Marks	External Exam	Marks
Part A 2 x 2 (No Choice)	4	Part A 5 x 2 (No Choice)	10
Part B 3 x 4 (Open choice Three out of Five)	12	Part B 5 x 5 (Open choice any Five out of Eight)	25
Part C 1 x 9 (Open choice One out of Three)	9	Part C 5 x 8 (Open choice any Five out of Eight)	40
Total	25	Total	75

iv) Internship/Industrial Activity

Components	Marks
Industry Contribution	50
Report & Viva-voce	50
Total	100

v) Core Project:

Ratio of Internal and External 25:75

Internal (Supervisor)		Marks
I Review		5
II Review		5
Report		15
External (External Examiner)		
Report		40
Viva-voce (individual, open viva-voce)		35
_	Total	100

Co-Curricular Courses:

(i) Life Skill Training Internal Component

Components		Marks
	Album (20 pages)	30
Life Skill Training -I	Group Song, Mime, Skit (Group of 5students)	20
	Total	50
Life Skill Training -II	Case Study (30 pages)	50
	Total	50

External Component

Written Test	Five out of Seven (5 x 10)	50
	Total	50

(ii) Field Project:

Components	Marks
Field Work	50
Report & Viva-voce	50
Total	100

(iii) Specific Value-Added Courses & Generic Value-Added Courses:

Components	Marks
Internal	25
External	75
Total	100

(iv) Community Engagement Activity-UBA

Internal Component		
Component	Marks	
Attendance (Field Work)	30	
Participation	20	
Total	50	

External Component

Component	Marks
Group Project Report/ Case Study	50
(10-15 pages in print)	
Total	50

12. OBE

(i) Knowledge levels for assessment of Outcomes based on Blooms Taxonomy

S. No	Level	Parameter	Description		
1	KI	I Knowledge/Remembering It is the ability to remember			
			the previously learned		
2	K2	Comprehension/Understanding	The learner explains ideas or		
			concepts		
3	K3	Application/Applying	The learner uses information		
			in a new way		
4	K4	Analysis/Analysing	The learner distinguishes		
			among different parts		
5	K5	Evaluation/Evaluating	The learner justifies a stand o		
			decision		
6	K6	Synthesis /Creating	The learner creates a new		
			product or point of view		

(ii) Weightage of K – levels in Question Paper Number of questions for each cognitive level:

Assessment	Cognitive Level	KI			K2	2,		К3	}		K4 K6	_	K5,	Total
Internal Test	Part	A	В	С	A	В	С	A	В	С	A	В	С	
	No. Of Questions	1	1			1		1		1	2	1	2	10
External Examination	Part	A	В	С	A	В	С	A	В	С	A	В	С	
	No. Of Questions	3	-	1	3	1	1	1	2	1	3	2	2	20

13. Evaluation

- i. The performance of a student in each Course is evaluated in terms of percentage of marks with a provision for conversion to grade points.
- ii. Evaluation for each Course shall be done by a Continuous Internal Assessment (CIA) by the Course teacher as well as by an end semester examination and will be consolidated at the end of the semester.
- iii. There shall be examinations at the end of each semester, for odd semesters in October/November; for even semesters in April / May.
- iv. A candidate who does not pass the examination in any course (s) shall be permitted to reappear in such failed course (s) in the subsequent examination to be held in October / November or April / May. However, candidates who have arrears in Practical Examination(s) shall be permitted to re-appear for their arrears only along with Regular

Practical examinations in the respective semester.

- iv. Viva- voce: Each candidate shall be required to appear for Viva-voce Examination in defense of the Project.
- vi. The results of all the examinations will be published in the College website.

14. Conferment of the Master's Degree

A candidate shall be eligible for the conferment of the Degree of Master of Arts / Science / Commerce only if the minimum required credits for the programme thereof (91 +10 credits) is earned.

15. Grading System

For a semester examination:

Calculation of Grade Point Average for End Semester Examination:

GPA = Sum of the multiplication of grade points by the credits of the course Sum of the credits of the courses (passed) in a semester

For the entire programme:

Cumulative Grade Point Average (CGPA) $\Sigma_n \Sigma_i C_{ni} G_{ni} / \Sigma_{ni} \Sigma_i C_{ni}$

CGPA = Sum of the multiplication of grade points by the credits of the entire programme

Sum of the credits of the courses of the entire programme

Where

- Ci Credits earned for course i in any semester
- G_i Grade point obtained for course i in any semester
- n semester in which such courses were credited

16. Final Result

Conversion of Marks to Grade Points and Letter Grade

Range of Marks	Grade Points	Letter Grade	Description
90-100	9.0-10.0	О	Outstanding
80-89	8.0-8.9	D+	Excellent
75-79	7.5-7.9	D	Distinction
70-74	7.0-7.4	A+	Very Good
60-69	6.0-6.9	A	Good
50-59	5.0-5.9	В	Average
00-49	0.0	U	Re-Appear
ABSENT	0.0	AAA	ABSENT

Overall Performance

CGPA	Grade	Classification of Final Results
9.5-10.0	O+	First Class – Exemplary*
9.0 and above but below 9.5	0	That Class Exemplary
8.5 and above but below 9.0	D++	
8.0 and above but below 8.5	D+	First Class with Distinction*
7.5 and above but below 8.0	D	
7.0 and above but below 7.5	A++	First Class
6.5 and above but below 7.0	A+	That Class
6.0and above but below 6.5	A	
5.5and above but below 6.0	B+	Second Class
5.0 and above but below 5.5	В	5000nd Class
0.0 and above but below 5.0	U	Re-appear

^{*}The candidates who have passed in the first appearance and within the prescribed semester are eligible.

Mapping of Vision / Mission / Programme Education Objectives of the Institution

Vision	Mission	Programme Education
		Objectives
Imbibing the Spirit of	1. To provide quality	1. The graduates will apply
the Holy Cross, the	education and to promote	appropriate theory and
institution envisions a	scholarly activities catering to	scientific knowledge to
harmonious society by	global competencies.	participate in activities that
empowering young	2. To nurture participatory	support the humanity and
women for	leadership to enhance	economic development,
global competency	social consciousness and	nationally and globally,
and ecological	social responsibility.	developing as leaders in
sustainability through		their fields of expertise.
holistic approach	3. To uphold ethical values of	M1 & M2
with innovative skills.	honesty, personal	2. The graduates pursue
	accountability and	life-long learning and
	transparency through	continuous improvement of
	professional commitment.	the Knowledge and skills

4. To	create	global	with t	he highest
profession	als and entre	preneurs	professiona	l and ethical
with innov	ative spirit	and zeal.	standards.	
5. To	create em	powered	M3 & M4	
women	of com	npetence,	3. The grad	uates will develop
commitme	nt and comp	bassion.	strong a	and competent
6. To ins	til in stud	ents the	knowledge	with diversified
awareness		of	professiona	l skills in
interconne	ctedness	between	accordance	with dynamic
human and	nature		real-time	challenges and
			career oppo	rtunities.
			M5 & M6	

Mapping of PEO'S and PO'S SCIENCE

PEOs	PO1	PO 2	PO3	PO4	PO5
PEO 1	S	S	S	M	S
PEO 2	M	S	M	S	S
PEO 3	M	S	M	S	S

Strong -S (3), Medium – M (2), Low – L (1) **ARTS**

PEOs	PO1	PO 2	PO3	PO4	PO5	PO6
PEO 1	S	S	S	S	S	S
PEO 2	S	S	M	M	S	S
PEO 3	M	M	S	S	S	S

Strong -S (3), Medium – M (2), Low – L (1)

COMMERCE

PEOs	PO1	PO 2	PO3	PO4	PO5	PO6
PEO 1	S	S	S	S	S	S
PEO 2	S	S	M	M	S	S
PEO 3	M	M	S	S	S	S

Strong -S (3), Medium – M (2), Low – L (1)