



Holy Cross College (Autonomous)
Affiliated to Bharathidasan University
Nationally Accredited (4th Cycle) with A++ Grade (CGPA 3.75/4) by NAAC
College with Potential for Excellence
Tiruchirappalli - 620 002, Tamilnadu, India.

School of Life Sciences


PG DEPARTMENT OF BIOCHEMISTRY

CRITERIA	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
1. CURRICULUM					
Introduction of new course					
<ul style="list-style-type: none"> Introduction of certificate courses 	1	2	3	3	3
<ul style="list-style-type: none"> Introduction of innovative courses 	1	2	3	4	5
<ul style="list-style-type: none"> Introduction of Add on courses 	1	1	1	1	1
<ul style="list-style-type: none"> Bridge Course 	1	1	1	1	1
Question Bank as per LOCF syllabus	10	10	5	10	7
Updation of LOCF Question Bank for UG & PG (every year)	8	18	28	33	43
TEACHING, LEARNING, EVALUATION					
Number of E-Content for courses (full course)	23	50	75	100	125
Number of modules in MOOC Platform	25	50	75	100	125
Number of Online Courses (MOOC) Swayam.	9	12	18	24	30
No. of Staff registered in National and international Platform					
Industrial relation (Number of industrial tie-up)					
Consultancy- (Staff should act as consultant)	1	1	2	2	2
Unique Teaching Methodologies for each staff followed in the department	2	3	4	5	6
Analysis of and UG & PG results (Percentage)	III UG-92% II UG -97.5% I UG -95.2%	III UG-94% II UG -98.5% I UG -97.2%	III UG-96% II UG -99% I UG -99%	III UG-100% II UG -100% I UG -100%	III UG-100% II UG -100% I UG -100%
University Rank Holder	II PG- 100% I PG - 100% III rank	II PG- 100% I PG - 100% II rank	II PG- 100% I PG - 100% I rank	II PG- 100% I PG - 100% I rank	II PG- 100% I PG - 100% I rank
Remedial Coaching Methods					
Percentage of Students improved	10%	20%	30%	40%	50%
Training programs offered by department to others					
i) Staff	1	1	1	2	2
ii) Students	1	1	1	2	2
ASSOCIAN ACTIVITIES					
National seminars/Conferences (10% of students participants from national and 30% of resource person from national)		1		1	
International Conferences (10% of students participants from international and 30% of resource person from international)	1		1		1
Workshops	2	2	2	3	3
PROJECTS					
Minor Research Projects	3	5	7	9	9
RESEARCH, CONSULTANCY, EXTENSION					
MOU with Research labs, Pharma and coding companies	1	1	1	2	2
Collaboration with International functional MOU	1	1	1	2	2
Ph.D guideship	6	2	-	1	
Ph.D. Completion		1	2	4	6
Staff Paper Publications in Scopus	2	4	6	8	10



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Students project (paper publications)					
UG	30%	45%	60%	75%	100%
PG	50%	60%	70%	80%	100%
Book (chapter)	2	4	6	8	9
Book	1	1	1	1	1
EXTENSION					
Anemia Screening For Students (In collaboration with government, NGO's)					
INFRASTRUCTURE(Requirements)					
UG lab extension					
PG new laboratory					
Food preservation laboratory					
New class rooms					
STUDENT SUPPORT SERVICES					
Competitive exam coaching class (ARS/NET/CSIR)		5%	10%	15%	20%
No. of students cleared:					
INNOVATIONS AND BEST PRACTICES					
Bioscintillators – A Science cum Health Awareness Exhibitions At Rural Schools					
Patents					
Generation of Funds within the campus (through activities like horror show, fun shows, stalls etc.,					
Motivating students for doing projects in other national and international universities	2	2	2	2	
Molfest – Intradepartmental competition					
Eluteadus- Intercollegiate Competitions	District level	Regional level	State level		



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INNOVATIVE COURSE

2022-2023	Pain relief formulation Food Preservation technology
2023-2024	Medical record Science
2024-2025	Geriatrics care technology
2025-2026	Optometry
2026-2027	Nuclear medicine

CERTIFICATE COURSE

2022-2023	Diploma in soil science
2023-2024	Certificate course in soil science
2024-2025	Diploma in quality control and assessment
2025-2026	
2026-2027	

ADD ON COURSES

2022-2023	Cardiac sonography
2023-2024	Diabetic care
2024-2025	Pharmaco-vigilance
2025-2026	Dairy technology
2026-2027	

INDUSTRIAL RELATIONS

MILK – VIJAY MILK INDUSTRY
FOOD- ASWIN PRODUCTS
ICECREAM FACTORY

UNIQUE TEACHING METHODOLOGIES

Flip class room
Project based learning
Asking open ended questions
Peer teaching
Blended learning
Jigsaws
Personalized learning

REMEDIAL COACHING METHODS

Group study
Digital class blogs
Response to intervention (RTI)
Individual teaching
Writing for reading
Skills training model



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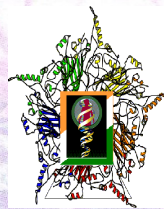
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DEPARTMENT OF BIOTECHNOLOGY & BIOINFORMATIC S



Five Year Plan

2022-2027



1. Curriculum

<i>Activityplans</i>	22-23	23-23	24-25	25-26	26-27
New Programme in LOCF pattern- <i>M ScBioinformatics-5-yearintegratedProgramme</i>	Iyear	IIyear	III year	IVyear	Vyear
Revision in III semester of M Sc BiotechnologyProgramme					
Revision in III year syllabi of B ScBiotechnologyunderschoolofLifeSciences		-	-	-	-
Syllabiin LOCFformat-B Sc& MScBiotechnology	Updating				Revamping
Innovativecourseinclusion	01	02	03	04	05
Project-based review writing course in the finalsemester-UG-OpenBooksystem-ExtraCredit	BestPractice				
Onlinecourse-extracreditforbothUG&PGwithcollaborativeUniversitiesAbroad.	01	02	03	04	05
Offeringadd-oncourse(s)					
<i>i. Certificatelevel</i>	01	01	01	01	01
<i>ii. Diplomalevel</i>		01	01	01	01
<i>iii. Advanceddiplomalevel</i>			01	01	01
Offeringcertificatecourse(s)	01	02	03	04	05
Offering bridgecourseon					
<i>i. BiologytoBiotechnology</i>					
<i>ii. BiologytoBioinformatics</i>					

2. Teachinglearning&evaluation

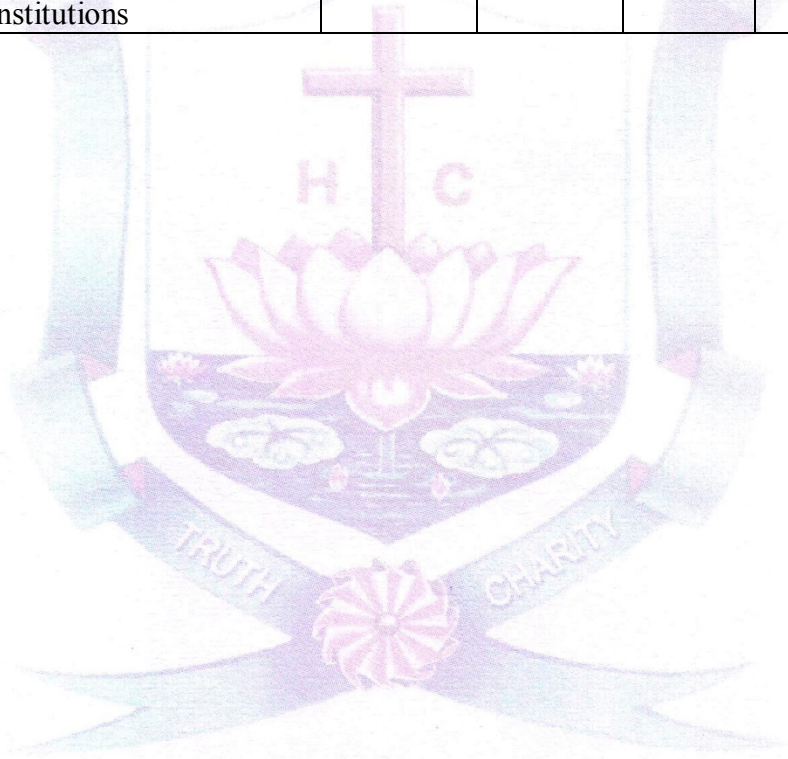
Developinge-lessons	20	30	40	50	60
Offeringonlinecoursewithmarks&credits	01	02	03	04	05
Offer internships – No Beneficiaries	01-30	02-60	03-90	04-120	05-150
Staffexchangeforonline &offlineteaching	01	01	01	01	01
<i>i. InternationalInstitutions</i>	01	01	01	01	01



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ii. National Institutions					
staff exchange teaching with authorized coaching centres for competitive exams	01	01	01	01	01
Student exchange for online learning with credit transfer	01	01	01	01	01
i. International Institutions					





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ii. National Institutions	01	01	01	01	01
Design&developvirtuallabsexperiments -	02	02	02	02	02
Remedial coaching-80% marks and above Slow learners	10%	20%	30%	40%	50%
Medium Learners-Group discussion	20%	30%	40%	50%	60%
High achievers-Extra credit course	1	2	3	4	5
Departmental Blog					
Active MoU's signing Internships, Projects and Conference	02-	02	03	03	04
Pass percentage	100	100	100	100	100
University rank	first rank	first rank	first rank	first rank	first rank
NET/SLET/JAM	02	03	04	05	06
iii. Projects					
Minor projects	02	02	02	02	02
Major projects	02	02	02	02	02
Student projects	02	04	06	08	10
Scholar Projects	03	03	03	03	03
International Collaborative projects with Universities and Institutes abroad	01	01	01	01	01
iv. Seminar/Conference/Workshop B&B Tech Info Alumni Club					
3-day International Conference in collaboration with Institutes abroad	01		01		01
3-day National Conference		01		01	
2- National Workshops on Bioinformatics- under Bioinformatics Centre in the Collaborative Institute/Industry.	02	02	02	02	02
National workshop in Collaboration with DBT/ICMR/Research Collaborators	01	01	01	01	01



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FDP/FIP/refreshercourse	01	01	01	01	01
one day orientation programmeon "LifeSkill modules"	01	01	01	01	01
Lectureseries with	10	10	10	10	10
competition on Ideation/ working model/Prototype/ProductDesigning.spotcreativethinkingfor i: school students.ii:HCC students	01	01	01	01	01
Start-upstalls.	01	01	01	01	01
Exhibition on "Biotechnology & BioinformaticsExpo"	01	01	01	01	01
Bioutsav-inter-collegiatecompetition.	01	01	01	01	01
Entrepreneurialtrainingprogramme	01	01	01	01	01
OrientationProgramonPaper&Projectwriting/publicspeaking/contentwriting	01	01	01	01	01
v.PaperPresentationPublicationResearch-M.Phil&Ph.DGuidance					
B&BTechInfoResearchClub					
Guideshipforthe staffqualified with Ph.D	01	03	05	07	09
standardizingprotocolandpublishing	01	01	01	01	01
publishingresearchpapersinSCIindexedJournals -Q1	10	15	20	25	30
publishing Book	01	01	01	01	01
publishingBookchapters	02	04	06	08	10
completingPh.D.	01	02	02	02	05
RegisteringforPh.D.	01	02	04	08	12
RegisteringPDF	01	02	03	04	05



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Indian patent grant	01	01	01	01	01
To release Department Periodicals.	01	01	01	01	01
developing of Bioinformatics software/tool	02				
Commercialization of software					01
vi. Consultancy And Extension Activities					
offering consultancy both academic/research-honorarium	10	11	12	13	14
generate consultancy money to the Institution-	Rs25,000/-	Rs25,000/-	Rs25,000/-	Rs25,000/-	Rs 25,000/-
releasing product to the Society under the name of HCC	02				
Departmental Scientific Society under HCC	Launching	I Annual Meeting	II Annual Meeting	III & launch down ment award	IV & extend the network of the society
vii. infrastructure					
classrooms and UG laboratory					
Equipment/instruments					

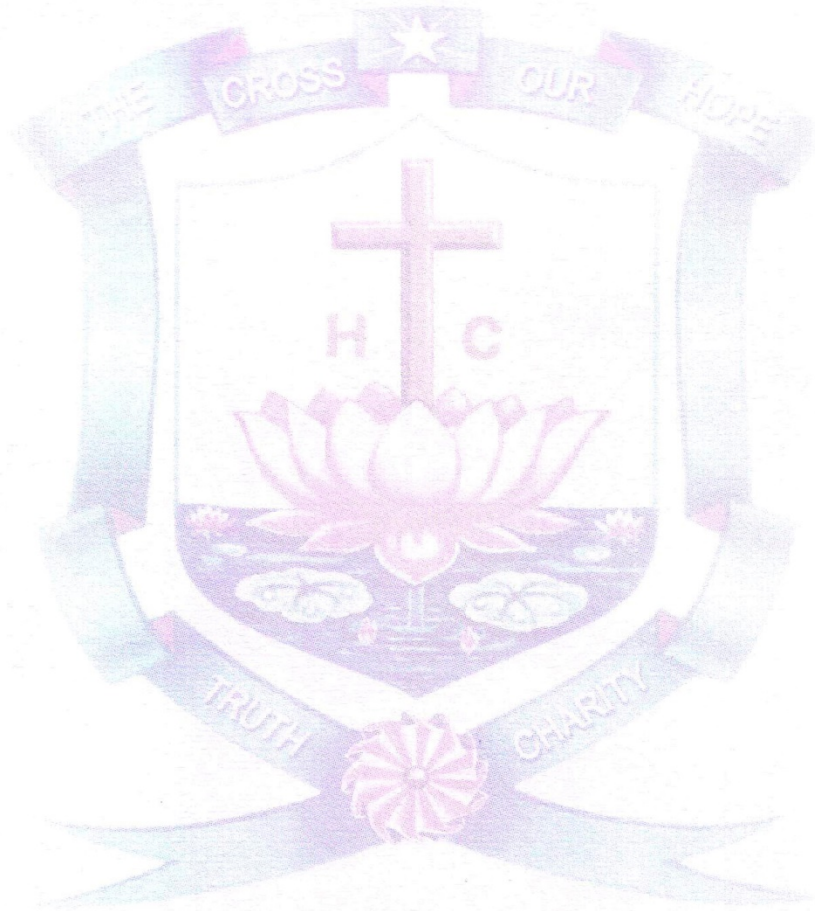


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Best Practices: -2021-2022

1. Casestudy-based assignments
2. CourseonReviewandprojectwriting for IIIUG-Openbooksystem





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Extensionactivities

1. **Biotechnopreneurcamp**
2. **Innovativefarmer'smeet**
3. **Micropropagation**
4. **Trainingcumworkshoponmedicinalplantscultivation-anindustrialperspectives**
5. **Extensionforestry**
6. **Trainingprogrammesonfermented&dairyproducts-development&commercialization**
7. **Improve-Economicalsustainability**

BiotechnologyPlacements

1. **HigherEducationwithScholarship**
2. **JRFwithStipend**



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3. Competitive exam for research institutes
4. Scientists
5. Teaching faculty
6. Industries
7. Own Startup company
8. Environmental sustainability

We perform....

- We have PhD Program
 - With Collaborative Scientist with stipend
- Curriculum-Project & Product Based Assignments
- Teaching blended with training
 - With Collaborative Coaching Centre
- Industrial Collaborations & MoU's
- Collaborative research towards quality publications
- Innovative Projects towards products & patents
- Products designing & Commercialization
- Hackathons
- Start-up stalls
- Entrepreneurial training programme
- Organic Farming
- Extension activities

Teaching methodologies....

- Blogging
- Group activities
- Open resources
- Debate Podcast
- Discussion Forum
- Open Book System
- Out of Class Projects with case studies
- Collaborative & team based learning
- Reading assignments with own original content
- Remedial coaching



PG AND RESEARCH DEPARTMENT OF BOTANY – FIVE YEAR PLAN – 2022 - 2027

Academic Year	2022-23	2023-24	2024-25	2025-26	2026-27
Curriculum					
Revision of syllabus	UG syllabus revision according to LOCF and school pattern Full PG syllabus for Nomenclature change	III UG syllabus revision according to LOCF	Updation of UG and PG syllabus	Updation of UG and PG syllabus	Updation of UG and PG syllabus
Introduction of innovative courses	III UG -2	UG-3 PG -2	UG -4 PG-3	UG -5 PG-4	UG -6 PG-5
Certificate course	Mushroom cultivation and post harvest technology. Herbal oil preparation	Azolla cultivation	Urban gardening and microgreen cultivation	Biofertilizer production	Horticultural Techniques
Add on course	Cultivation of medicinal plants- certificate course	Diploma in medicinal plants- te course	Advanced Diploma in medicinal plants- cultivation course	Certificate course on Horticultural techniques	Diploma course on Horticultural techniques



Teaching, Learning and Evaluation.					
1. Remedial class	Improvement of Slow learners – 10-20% Average students – 40-50% High achievers- add on courses, special projects and peer leaders	Improvement of Slow learners- 20-40% Average students – 40-50% High achievers- add on courses, special projects and peer leaders	Improvement of Slow learners- 40-50% Average students – 50-60% High achievers- add on courses, special projects and peer leaders	Improvement of Slow learners - 50-60% Average students - 60-70% High achievers High achievers- add on courses, special projects and peer leaders	Improvement of Slow learners - 60-80% Average students – 70-80% High achievers- add on courses, special projects and peer leaders
2. Study tour, field visit, Research institutes, and Industries for UG and PG Students	3 3 2 2	4 4 3 3	5 5 4 4	6 6 5 5	6 6 4 4
3. BSI tour throughout India (Botanical survey of India)	(Southern circle) (Coimbatore)	(Northern circle) (Dehradun)	(Eastern circle) (Shillong)	(Western circle) (Pune)	(Central circle) (Allahabad)
4. Preparation of MOOCS modules-1	1	2	3	4	5
5. Question Bank No. Of Papers.	4	5	6	10	8
6. E- contents	20	40	80	120	180
7. Guest and visiting Faculty.	2	4	4	6	6



8. No of innovative teaching methods.	3	6	5	4	4
9. Linkage projects Internship programmes.	Students – 4 Faculty – 3	Students – 6 Faculty - 4	Students – 10 Faculty - 4	Students – 15 Faculty - 4	Students – 20 Faculty - 4
10. CSIR-NET-SET Coaching programme	All the staff members	All the staff members	All the staff members	All the staff members	All the staff members
Projects Major / Minor.	4	2	3	2	4
Seminar/Conference/ Workshops					
1. National seminar.	State Level -1	International Level -1	Outdoor seminar -1	State Level -1	Outdoor seminar
2. Intercollegiate competition	----	District level -2	District level -2	State level – 1	-----
3. Workshop on innovative techniques in Bioscience and Botanical Entrepreneurship.	Regional level- 1	State Level – 1	Regional level-1	State level-1	State level-1
4. Workshop for Nonteaching staff.	- 1	Regional level-1	State level -1	State level -1	State level -1
5. Exhibition on medicinal plants and its products.	1	2	1	1	1



6. Tie up with Horticultural stations	1	1	1	2	2
7. Tie up with industry	--	1	1	1	1
Research/ Publications.					
1. UG project Paper publication.	20%	30%	50%	60%	80%
2. PG project Paper publication.	40%	40%	40%	40%	40%
3. Ph.D. guideship.	100%	100%	100%	100%	100%
4. Proposed to take candidates for Ph.D.	3	3	3	3	3
5. Papers – 20/year.	4	4	4	4	4
Scopus	6	6	6	6	6
Web of science.	10	10	10	10	10
UGC Care list					
5. Book Chapter.	4	3	5	4	5
6. Linkage & MoUs	2	2	2	2	2
7. Patent	1	1	1	2	2
8. Book	-	1	-	-	1



9. Student participation in seminars and Conferences outside					
UG	2	5	10	15	18
PG	5	8	10	12	15
Extension activities/Consultancy					
1. Seed balls to the adopted villages.	50,000	1,00,000	1,50,000	2,00,000	2,00,000
2. Watershed management. Rain water harvesting units	---	2	5	7	8
3. Preparation of videos on herbal formulation	1	1	---		
4. Students to be promoted as Entrepreneurs in future.	2	4	5	5	6
5. Revenue generation through Linkages and MoU.	5000	10,000	10,000	10,000	10,000



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6. Herbal study centre.	5000	7000	7000	7000	7000
Any other Information					
Placements Placement will be arranged	10%	20%	30%	30%	30%



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Department of Environmental Science
Five Year Plan

	Curriculum				
	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Syllabus Innovative Courses	1	2	2	3	3
	1	2	2	3	3
Certificate courses	1	1	2	2	2
Add on course	1	1	2	2	2
Lab Manual	2	2	2	-	-



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	Teaching Learning Evaluation				
E-Content	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
	10	20	20	30	30
Question Bank	5	10	15	-	-
Linkages with educational Institutions	2	2	2	3	3
Study Tour	5	7	10	12	15
% NET/CSIR Passed	20%	25%	30%	40%	50%
Online course (faculty)-1 Swayam or NPTEL	2	4	6	8	10



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	Projects -Major/Minor				
	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Project Minor	1	1	2	2	3
Project Major	1	1	2	2	3
Patent	-	-	1	1	1



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	Consultancy/Extension Activities				
	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Income					
Rally	4	6	6	7	7



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	Seminar/Conference/Workshop				
	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
District Level, state Level & International Conference	1	2	2	3	4
Workshop	1	1	1	2	3
Inter college Competition	1	1	2	3	3



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	Research Publication				
	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Ph.Dguideship	100%	100%	100%	100%	100%
Ph.D candidates	-	2	2	3	4
Journal Publications	2	2	4	6	6
(Scopus, Web of science, UGC CARE)	2	2	4	6	6
	2	2	4	6	6
PG Projects to be Published	50%	60%	70%	80%	100%
MoU (Output)	-	50%	50%	70%	70%
Book Chapter	1	1	2	3	4
Text Book	-	1	2	2	3



Infrastructure/Additional Information				
2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Air analysis Lab -1	Facility for soil and water analysis Lab	Facility for Environmental Microbiology Lab	Facility for Environmental Engineering Lab	Advanced equipment should be purchased for environmental analysis
Department library should be established	M.Sc thesis copy should be added to the department	Additional books to the department library	Newsletter to be included in the department library	Journals to be included in the department library
Placement through department- 50%	Placement -75%	Placement through department- 75%	Placement through department- 100%	No of Entrepreneurs-20%



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DEPARTMENT OF ZOOLOGY

FIVE YEAR PLAN

2022 -2027



CURRICULUM

	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Syllabus	II UG courses will be modified based on LOCF Pattern	Updating the III UG and I PG syllabus	Revision of I UG & II PG courses	Updating the II UG syllabus	Revision of PG Syllabus
Innovative course	1	2	3	4	5
Certificate course	1	2	3	4	5
Add on course	1 Certificate course	1 Diploma course	1 Advanced diploma course	2 Certificate courses	2 Diploma courses



TEACHING-LEARNING EVALUATION

	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Preparation of e-lessons	25	30	40	50	60
Prepare and upload a modules on MOOCs	1	2	3	4	5
Preparation of Virtual Lab	1 lesson	2 lessons	3 lessons	4 lessons	5 lessons
Completion of online courses	11	22	22	22	22
Question Bank	2	5	4	4	6
Teaching Methodology	4 Panel Discussion Mock Press	5 Jig-Saw	6 Role Play	7 Think Pair &Share	8 Model making and group discussion
Remedial class	Slow learners- 10% of the students will be raised to secure 80% and above Average learners- Summer Internships High Achievers-	Slow learners- 20% of the students will be raised to secure 80% and above Average learners- Tutoring slow learners High Achievers- More online courses	Slow learners- 30% of the students will be raised to secure 80% and above Average learners- Extended library use High Achievers – Poster Presentation in National conferences	Slow learners- 40% of the students will be raised to secure 80% and above Average learners- Writing Assignments on more challenging topics High Achievers- Paper presentation in international conferences	Slow learners- 50% of the students will be raised to secure 80% and above Average learners- Group discussion and present assignment on published articles from newspapers/journals High Achievers-

**SEMINAR/ CONFERENCE /WORKSHOP**

	extra credit course				Publishing review articles in reputed journals
Linkage with educational institution in Trichy	Beneficiary- 20 % of students	Beneficiary- 25% of students	Beneficiary- 30% of students	Beneficiary- 40% of students	Beneficiary- 50% of students
University Rank	1 rank	1 rank	1 rank	1 rank	1 rank
Pass percentage	100 %	100 %	100 %	100%	100%
CSIR /NET Coaching	10% of the Students to crack the competitive Exam	20% of the Students to crack the competitive Exam	30% of the Students to crack the competitive Exam	40% of the Students to crack the competitive Exam	50% of the Students to crack the competitive Exam

PROJECTS MAJOR/MINOR

	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Major Project	1	2	3	4	5
Minor Project	3	4	6	7	8
Filing of Patent	1	2	3	4	5



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	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
International conference	10% International Participants	20% International Participants	1 UNICEF /WHO funded 30% International Participants	30% International Participants	30% International Participants
National conference	1	1	2	2	2
workshops	1 intra department	2- inter departmental level	2 regional level	2 - state level	2 state level
Festtote	Inter department	Intercollegiate level	State level	state level	state level



RESEARCH&PUBLICATION

	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Research	100% PhD guideship	Proposed to take 3 PhD Candidates	Proposed to take 5 PhD Candidates	Proposed to take 7 PhD Candidates	Proposed to take 9 PhD Candidates
MoU	Internship for 5 students	Project for 10 students	Internship for 10 students	Summer school training For 20 students	Internship for 15 students
Staff Publications	Scopus -4 WOS- 4 UGC care list - 4	Scopus -6 WOS- 5 UGC care list - 4	Scopus -7 WOS- 6 UGC care list - 7	Scopus -9 WOS- 5 UGC care list - 8	Scopus -10 WOS- 6 UGC care list - 10
Project publications	20% of UG and 50% of PG projects	40% of UG and 50% of PG projects	70% of UG and 100% of PG projects	80% of UG and 100% of PG projects	100% of UG and 100% of PG projects
Text Books	1 Text book & 2 book Chapters	2 text books	2 Text Books	2 Text Books	2 Text Books



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CONSULTANCY / EXTENSION ACTIVITIES

	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Revenue generated	Rs. 5,000	Rs. 10,000	Rs. 15,000	Rs. 20,000	Rs. 25,000
Extension	Training on vermicompost preparation	Training on edible fish culture	Spirulina cultivation	Training programme on Integrated farming	Training programme on poultry farming



INFRASTRUCTURE/ADDITIONAL INFORMATION

	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027
Infra-structure	Renovation of vermiculture and animal cell culture Room Renovation of all laboratories in the department	Establishment of animal rearing center	Integrated farming (Aquaculture- mulberry field)	Silk worm rearing and reeling of silk	Establishment of sericulture unit
Placement/entrepreneurs	10%	20%	30%	40%	50%
Best Practices	Awareness of endangered and extinct species	Create database on Animal diversity in Tiruchirappalli city	Debate on Current scientific research topic	Create Barcode for museum specimens	Develop zoology department website

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