V.V.VANNIAPERUMAL COLLEGE FOR WOMEN



(Belonging to Virudhunagar Hindu Nadars) An Autonomous Institution Affiliated to Madurai Kamaraj University Re-accredited with 'A' Grade (3" Cycle) by NAAC

VIRUDHUNAGAR - 626 001 (TAMILNADU)

ANNUAL PROGRESS REPORT 2020-2021

STAR COLLEGE SCHEME FOR STRENGTHENING UG SCIENCE DEPARTMENTS No.HRD-11011/163/2020-HRD-DBT DT.24.08.2020

SUPPORTED DEPARTMENTS

- PHYSICS
- CHEMISTRY
- · ZOOLOGY
- MATHEMATICS & COMPUTER SCIENCE
- BOTANY & BIOTECHNOLOGY
- BIOCHEMISTRY



Under

DBT STAR COLLEGE SCHEME

DEPARTMENT OF BIOTECHNOLOGY NEW DELHI

JULY - 2021

DEPARTMENT OF BIOTECHNOLOGY PROFORMA FOR SUBMISSION OF ANNUAL PROGRESS REPORT SUPPORTED UNDER DBT STAR COLLEGE SCHEME

1.Name of the College	V.V.Vanniaperumal College for Women (Autonomous),
	Virudhunagar
2 Name of the Coordinator,	Dr.M.Tamilselvi,
Designation, Address,	Associate Professor of Zoology,
Phone Nos.	V.V.Vanniaperumal College for Women (Autonomous),
	Virudhunagar-626001
	Contact No : 9894883106

3. Assessment Duration2020-2021Duration in Years : 1

Details of Departments supported

Sl.No	Name of the	Courses(B.Sc./M.Sc./	Regular Faculty Members Total =41			
	Department	PG Diploma, Certificate etc.,)				
		offered	Total strength	With Ph.D	Without Ph.D	
1	Physics	B.Sc	6	6	-	
2	Chemistry	B.Sc	6	3	3	
3	Zoology	B.Sc	5	5	-	
4	Mathematics	B.Sc	10	7	3	
	Computer Science	B.Sc	4	3	1	
5	Botany	B.Sc	3	3	-	
	Biotechnology (Self Finance)	B.Sc	4	1	3	
6	Biochemistry	B.Sc	3	3	-	
	•	Total	41	31	10	

5. Number & Date of Advisory Committee Meeting :

S.No	Meeting	Number	Date
1	Advisory Committee Meeting	1	23.11.2020
2.	General Meeting	5	07.10.2020
			26.11.2020
			11.01.2021
			01.04.2021
	1		20.05.2021

3	Mentors Meeting	8	
(i)	Physics & Zoology	2	08.01.2021
(ii)	Chemistry & Biochemistry	2	18.01.2021
(iii)	Mathematics & Computer Science	2	11.01.2021
(iv)	Botany	1	20.01.2021
(v)	Biotechnology	1	19.01.2021

6. Qualitative improvements due to DBT support. Please highlight 5 salient points(within 500 words)

V.V.Vanniperumal College for Women, Virudhunagar is one of the reputed higher educational institutions taking great endeavours in providing quality education to the rural womenfolk in Southern Tamilnadu. Its remarkable march towards its progress is the "joint venture" with the Department of Biotechnology to strengthen the UG Science Departments by increasing infrastructure facilities,fortifying teaching, learning and research processes and moulding the students to compete globally. The achievements of thebeneficiary Science Departments under Star College Scheme of DBT are

- ✓ Incorporated additional practical modules in the existing syllabus in accordance with the purchased equipments, books, slides, charts, specimens, software etc., under Star College Scheme and it was approved in BOS to promote teaching, learning and research strategies.
- ✓ Organized Guest Lectures, Seminars, Workshops Conferences and Faculty Development Programmes for ensuring exposure of the students as well as the faculty beyond the syllabus to meet out the global demands and create their interest in various branches of science.
- ✓ Arranged good number of Hands on Training Programmes which would enable the students acquire technical knowledge in their specific field so as to work in industries and research laboratories.
- ✓ Organized Interdepartmental Competitions during the celebrations of special occasions to understand its importance and inculcate social responsibility among the students. The basic principles of science were exhibited as models, charts etc.,in exhibition which created interest on the science subjects. This platform has provided knowledge sharing between the science and non-science students and to carry out more interdisciplinary projects.
- ✓ Exposed the students to Research Centres and Industries to motivate the students in pursuing higher studies and provided opportunities to interact with the Scientists and Industrialists to keep them well updated in the evolving trends of their field and also the exisiting and emerging problems. These visits promote self employment venture in the challenging world and instilled entrepreneurial skills.

- ✓ Numbers of student projects have been increased considerably because of facilitated infrastructure under this scheme to meet the relevant problems with scientific approach. The projects on 'Water Quality Index" in college premises(Chemistry) and in nearby villages of Virudhunagar District (Zoology, Biochemistry, Botany) highlighted the domestic purpose and conservation of freshwater bodies as it inhabits number of biota. These kinds of projects boost the students to identify the problems in their own area that involve them to meet out the real life situation and instill social responsibility among the students. The data on survey analysis(Zoology) in small population may be helpful to point out the problems at earlier level and lay foundation to execute in large population through Major Research Projects.
- The projects carried out by the students of Computer Science and Mathematics will definitely help the educational institutions, organizations and public sectors for accessing the data easily during crisis period. Real life problems will be sought out easily (**Arduino based Projects** of Physics students) within a time limit.
- The **projects on "non-conventional biotic resources**" done by the life science students (Zoology, Biotechnology and Biochemistry) alarm the preservation of habitats in local area along with the biota and can also be used for environmental monitoring for the welfare of human beings.
- The **projects on phytochemical screening**(Chemistry, Zoology, Biochemistry, Botany and Biotechnology) and synthesis of nanoparticles may give the solution to the existing problems in search of new medicines and to cure various kinds of common ailments by simple home remedies.

7. Any novel aspect introduced or planning to introduce during the scheme duration

- ✓ Under DBT Star College Scheme, the organized **Outreach activity** gave a very good significant impact to the Government Schools of Virudhunagar District. Our college extended its helping hands to the PG Assistants of Government Schools in sharing the expertise of the science faculty to conduct theory and practical classes in accordance with the revised syllabus of Tamilnadu Government. Around 450 PG Assistant Teachers from **98 Government Higher Secondary Schools in Virudhunagar District** were highly benefitted. Our college had an opportunity in identifying the needy schools and extended its valuable service to the rural schools in Virudhunagar District. Their needs were fulfilled bydonating the required apparatus to both the Government Boys and Girls Schools of Pandalkudi in Virudhunagar for the benefit of the student community. We have planned to continue this programme in the succeeding years. It will be helpful to get academically sound new entrants during I year UG admission.
- ✓ Disseminated the acquired knowledge under DBT Star College Scheme to nearby colleges by organizing collaborative Peer Group Training Programme on "Solving problems in OR

using Excel solver" after attending the workshop on "Applications of Operations Research" from 2.11.2020to 07.11.2020 conducted by the Department of Mathematics. Significant impact was observed among the students and has been planned to continue by other departments every year.

- ✓ The Department of Botany has set up medicinal garden with 150 medicinal plants in our college premises under this scheme. We created awareness on identification of medicinal plants and its uses to cure common ailments among Arts, Commerce and Management students. We have a plan to extend this programme to school students to create awareness on its uses as traditional medicines and importance for its conservation.
- ✓ Weekly, 3kg of vermicompostis collected from the established Vermiculture Unit under this scheme by the Department of Zoology. It is utilized for the growth of in-campus plants and trees. We plan to give Disciplinary/interdepartmental/interdisciplinary training programmes and projects related to Vermitechnology every year to promote entrepreunerial skills. Moreover, the vermicast will be supplied to the adopted villages under Unnath BharthAbiyan as "non-remunerative" services under extension services.
- ✓ As each department purchased specific equipmentsBOD, COD Analyser and Chem Draw Software(Chemistry), Microscopes(Botany and Zoology), Plant Tissue Culture Unit (Biochemistry), Biofermentor (Biotechnology), Adobe Creative Cloud – (Computer Science) under this scheme, they have planned to carry out more interdepartmental and interdisciplinary projects.
- ✓ Common Science Laboratory will be built up to accommodate large group of UG students in a common platform for promoting research activities at UG level. Besides, a common Museum will be set up for the benefit of non-science and school students to create interest on science subjects. We have planned to set up Plant Tissue Culture Lab in our college premises and plans are there to give a number of training programmes to the students of nearby colleges to promote interest on Biotechnology field.
- ✓ Plan to publish books on Lab Manuals for practicals (all beneficiaries departments), Wildlife Conservation(Zoology) and flora and fauna inside the campus of VVVC(Zoology & Botany) with ISBN.
- ✓ We have planned to analyse the fluoride content in ground water of the nearby village as most of the people have tooth discolouration problem. We realized the fact that Survey and Analysis of water samples is a primary source to identify the problems of local people and this data would be helpful for creating awareness and applying major projects in environmental and health issues.
- ✓ We have a plan to give training as interdepartmental programme on handling and operation of new equipments/softwares and maintenance training to the lab attendants.

8. Lessons learnt/ difficult faced/suggestions if any, in implementation of the programme and utilization of DBT grant (Max. 3 points within 300 words)

Lessons Learnt:

- ✓ Training programmes to lab attendants is essential for handling and maintenance of the equipments to avoid mishandling of the equipments.
- ✓ Need for organizing Guest lecture,Seminar, Workshop, Conference, FDP, Hands on Training Programme (interactive e-learning and assessment tools, IPR, Bioethics,Environmental Engineering Sciences) to update the knowledge in recent trends in Science and Technology.
- \checkmark Identify the needs of society and give possible solutions through students as educationalist.

Difficult Faced:

- ✓ The adaptability to this pandemic period was found as hard time for us in ordering and receiving the goods (equipments/chemicals/ glasswares& apparatus/ slides, charts/specimens) and organizing programmed activities. Though we have organized the scheduled programmes as per the submitted proposal, this pandemic was found difficult to invite the resource person during the transition period (off-line mode of lecture to online-mode and online to offline). It directly or indirectly affect the total number of participants involved.
- ✓ Planned to take our students to renowned Central Research Institutes (CMFRI in Kochi and Mandapam, Ramanujam Institute for Advanced study in Mathamatics, Chennai, CECRI in Karaikudi, Nuclear Power Plant in Kudankulam) as per the submitted proposal. Unfortunately, permissionwas not granted to visit these places in this pandemic period. Nevertheless,we took our students to nearby research institutes to fulfil their dreams under this scheme.
- ✓ A large group of students are to be benefitted by conducting exhibition during celebration of significiance day. Piteously, online competitions were conducted and expected number of participants could not be observed due to lack of knowledge in use of technology in submitting their assignments/photos/videos etc.,

9. KEY PERFORMANCE INDICATORS

1. NUMBER OF STUDENTS ADMITTED:

Details of Departments Supported	Pro	Pre-Support [2019-2020]			Durin	ng Suppor	rt [2020-202	1]
	SC	ST	OBC	G	SC	ST	OBC	G
Physics	10	-	39	-	6	-	36	1
Chemistry	3	-	44	-	6	-	39	-
Zoology	7	-	39	-	4	-	43	-
Mathematics &	6	-	67	1	14	-	58	-
Computer Science	3	-	44	1	3	-	41	-
Botany	Botany (Allied Department)							
Biotechnology (Self-finance)	4	-	51	1	3	1	45	-
Biochemistry	7	-	43	-	7	-	36	1

2. Number of students passing out (%) students Admitted/Passing out (Pass %)

S.No		Pre-S	Pre-Support [2019-2020]		During Support [2020-2021]		
	Details of Departments Supported	Students Admitted	% of Admission	Pass Percentage	Students Admitted	% of Admission	Pass Percentage
				(%)			(%)
1	B.Sc. Physics	49	95.83	100	43	86.36	100
2	B.Sc. Chemistry	47	89.58	100	45	100	97.61
3	B.Sc. Zoology	46	85.41	94.59	47	100	92.3
4	B.Sc. Mathematics &	67	95.83	97.33	72	100	97.26
	B.Sc. Computer Science	44	93.75	93.02	44	100	100
5	Botany &	{Ancillary Regular Department)					
	B.Sc. Biotechnology (Self- Finance}	45	75.00	90.91	49	84.09	96.97
6	B.Sc. Biochemistry	36	91.66	91.30	44	86.36	100

3. Drop-out rates

S.N 0	Details of Departments Supported	Pre-Support [2019- 2020]	During Support [2020-2021]	Remarks
1	B.Sc. Physics	6.12	11.62	After joining our
2	B.Sc. Chemistry	8.51	2.22	College, Students prefer
3	B.Sc. Zoology	10.86	6.38	to go for Professional
4	B.Sc.	6.75	4.16	Courses (Engineering,
	Mathematics &			Agriculture and Medical
	B.Sc. Computer	6.25	-	Courses) while the
	Science			selection list is
5	Botany &	Allied Regular Departmen	nt	published
	B.Sc.	35.71	24.48	
	Biotechnology			
	(Self- Finance)			
6	B.Sc.	12.00	13.63	
	Biochemistry			

4. Number of students opting for M.Sc.

S.No	Details of Departments Supported	Pre-Support [2019- 2020]	During Support [2020-2021]	Remarks
1	B.Sc. Physics	36	Summative	After getting a
2	B.Sc. Chemistry	12	Examination Results	degree, Students
3	B.Sc. Zoology	09	Published on	prefer Training
4	B.Sc. Mathematics &	28	12.07.2021	Course (B.Ed.,) and
	B.Sc. Computer Science	07		Job
5	Botany &	Allied Department [Regul	lar]	
	B.Sc. Biotechnology	07		
	(Self- Finance)			
6	B.Sc. Biochemistry	06		

5. Average Marks

S.No	Details of Departments Supported	Pre-Support [2019-2020]	During Support [2020-2021]
1	B.Sc. Physics	76	77
2	B.Sc. Chemistry	76	77
3	B.Sc. Zoology	71	63
4	B.Sc. Mathematics &	77	76
	B.Sc. Computer Science	70	72
5	Botany &	Regular All	ied Department
	B.Sc. Biotechnology (Self-	72	68
	Finance)		
6	B.Sc. Biochemistry	73	69

6. No. of Hands on Experiments being conducted

S.No	Details of Departments Supported	Pre-Support [2019-2020]	During Support [2020-2021]	Remarks
1	B.Sc. Physics	86	116	Due to increase of
2	B.Sc. Chemistry	52	59	infrastructure facilities under
3	B.Sc. Zoology	22	36	Star College Scheme, New and
4	B.Sc. Mathematics &	-	-	additional number of
	B.Sc. Computer Science	12	14	Equipments, Apparatus,
5	Botany &	09	19	Glasswares, and Chemicals
	B.Sc. Biotechnology	25	32	purchased. Demo practical are
	(Self- Finance)			converted into group and some
6	B.Sc. Biochemistry	80	89	group practicals are converted into individual practical.

7. Number of new experiments introduced

S.No	Details of Departments Supported	Pre-Support [2019-2020]	During Support [2020-2021]	Remarks
1	B.Sc. Physics	3	27	New Practicals are included in
2	B.Sc. Chemistry	-	7	the syllabus and passed in the
3	B.Sc. Zoology	-	18	Board of Studies.
4	B.Sc. Mathematics	-	-	
	B.Sc. Computer Science	-	2	
5	Botany &	-	19	
	B.Sc. Biotechnology	13	11	
	(Self- Finance)			
6	B.Sc. Biochemistry	-	09	

8. Publication (Scopus indexed)/patents, if any

S.No	SCOPUS INDEXED RESEARCH ARTICLES				
	PRE-SUPPORT [2019-2020]				
	DEPARTMENT OF PHYSICS				
1	Vidhya, R., M. Sankareswari, R. Gandhimathi, Kand Neyvasagam(2019). Influence of Cu Concentration				
	on the Structural, Morphological, Optical and Catalytic Properties of TiO2 thin films, Indian Journal of				
	Pure and Applied Physics, 57(7):475-482.				
2	Rathinamala, I., I.Manohara Babu, J. Johnson William, G. Muralidharan and N.				
	Prithivikumaran(2019). CdS microspheres as promising electrode materials for high performance				
	supercapacitors, Material Science in Semiconductor Processing 105 (104677):1-8.				
3	Karthikeyana, B., G. Shanmugapriya, N.Rajamanickam and S.P. Bagare(2020). An attempt of				
	identification of barium hydride molecular lines in sunspot umbral spectra, New Astronomy, 78.				
	DEPARTMENT OF CHEMISTRY				
4	Dhanalakshmi, M., K.Saravanakumar, S. LakshmiPrabavathi, V.Muthuraj(2020). Iridium Doped ZnO				
	Nanocomposites: Synergistic Effect Induced Photocatalytic Degradation of Methylene Blue and Crystal				
	Violet, Inorganic Chemistry Communications, ELSEVIER,111.				
5	Dhanalakshmi, M., S. Lakshmi Prabavathi, K. Saravanakumar, B. Filip Jones and V. Muthuraj(2020).				
	Iridium Nanoparticles Anchored WO3 Nanocubes as an efficient Photocatalyst for Removal of				
	Refractory Contaminants (Crystal Violet and methyene Blue), Chemical Physics Letters ELSEVIER,745.				
	DEPARTMENT OF MATHEMATICS				
6	Santhini, C. and M. Suganya (2020). New notions in ideal topological space, <i>Boletim da</i>				

	SociedadeParanaense de Matematica,38 (5):19–31.
	DEPARTMENT OF BOTANY
7	Muniyandi Biruntha, Pitchaimuthu Mariappan, Balan Karunai Selvi, James Arockia John Paul, and
	Natchimuthu Karmegam(2019). Vermiremediation of Urban and Agricultural Biomass Residues for
	Nutrient Recovery and Vermifertilizer Production, Waste and Biomass Valorization (Springer),
8	Biruntha M, Mariappan P, KarunaiSelvi B. James Arockia John Paul, Ramalingam Balachandar,
	Muthupandian Saravanan, NatchimuthuKarmegam(2019). Green Synthesis of Zinc Sulfide Nanoparticles
	Using Abrusprecatorius and Its Effect on Coelomic Fluid Protein Profile and Enzymatic Activity of the
	Earthworm, Eudriluseugeniae, Bio Nano Science.
9	Biruntha M, Karmegam N, Archana J, KarunaiSelvi B, John Paul J, Balamuralikrishnan B, Chang
	SW, Ravindran B(2020). Ver+miconversion of biowastes with low-to-high C/N ratio into value added
	vermicompost, Bioresource Technology, 297, 1-8.
	DEPARTMENT OF BIOCHEMISTRY
10	R. Gloria Jemmi Christobel and N. Kasi Selvi(2020). Assessment of in -vitro Antioxidative and Anti-
	Inflammatory Effect of Caesalpinia bonducella Seed Stabilized Silver Nanoparticles, International
	Journal of Research in Pharmaceutical Sciences, 11(1):693 – 701.

S.No	DURING SUPPORT [2020-2021]		
	DEPARTMENT OF PHYSICS		
1	Rahinamala, I., I Manohara Baby, J. Johnson William, G. Muralidharanand N. Prithivikumaran(2021).		
	Extra-Durable Hybrid Supercapacitor Based on Cobalt Sulfide and Carbon (MWCNT) Matrix		
	Electrodes, Journal of Energy Storage,2352-152X		
	DEPARTMENT OF MATHEMATICS		
2	Getchial PonPackiavathi, P., S. Balamurugan and R.B. Gnanajothi (2020). Hop Dominatin Number of		
	Catepillar Graphs, Advances in Mathematics: Scientific Journal, 9(5): 2739-2747.		
	DEPARTMENT OF BOTANY		
3	Biruntha, M., J.Archana K.Kavitha., K.Vanimuthu., B. Karunai Selvi J. ArockiaJohn		
	PaulR.M.VithyavathyK.KaviyarasuandnG.Ramalingam(2021).Efficacy of dye degradation of		
4	contaminated soil microbial isolates, <i>Materials Today Proceedings</i> , 36(2):167-170.		
4	Sreebha R., and A.E.D. Daniels(2020). The Little known <i>Fissidensaxilliflorus</i> Thwaites and Mitt.		
	(Fissidentaceae: Bryophyta) - New to the Moss Flora of India, <i>Plant Science Today</i> ,7(4):560-563.		
	DEPARTMENT OF BIOCHEMISTRY		
5	Sudha Rameshwari, K. M. AbiramiandR. Gloria JemmiChristobel(2020). Partial Characterization of		
	Green Synthesized Silver Nanoparticles of Cardiospermum halicacabum and Butea monoperma		
	Aqueous Extract Comination (CHBMCSNP), Research Journal of Pharmacy and		
	Technology,13(12):6218-6223		
6	Sudha Rameshwari, K., M. Muthu Muneeswari, R. Gloria JemmiChristobel, R. Mallika, R. Renuka		
	and R. Salini(2020). Synthesis and Evaluation of Herbal Formulation Using Natural Extract,		
_	International Journal of Research in Pharmaceutical Sciences, 11(3): 3450-3458.		
7	Sudha Rameshwari, K., and Sathiya Priya, R.(2020). Phytochemical screening, HPTLC, antimicrobial		
	activity in extracts of <i>Psidium guajava</i> and piper betle leaves combination (PGPB), <i>International Journal of Scientific and Technology Research</i> , 9(3): 7008–7018.		
8	Divyapraba, M., P. Chitra and K. Sudha Rameshwari (2021). Anti-Ulcer Activity of <i>Psidium</i>		
ð			
	guajava on Pylorus Ligation Induced Gastric Ulcer In Albino Rats, International Journal Of		
	Pharmaceutical Sciences And Research, 12(1)		

9. Training received by the Faculty

S.No	Details of Departments Supported	Pre-Support [2019-2020]	During Support [2020-2021]	Remarks
1	B.Sc. Physics	56	130	Online programmes
2	B.Sc. Chemistry	57	52	provided the
3	B.Sc. Zoology	75	78	opportunity to the
4	B.Sc. Mathematics	1	11	Faculty members to
	B.Sc. Computer Science	15	21	- participate in more - FDPs and Workshops.
5	Botany &	81	17	- TDI S and WOLKShops.
	B.Sc. Biotechnology (Self- Finance}	19	46	
6	B.Sc. Biochemistry	10	36	

10. Exhibitions/Seminars/ Training Courses conducted

Pre-Support [2019-2020]

Department	Number of Exhibitions/Seminars/ Training Courses conducted
Physics	2
Chemistry	1
Mathematics	1
Computer Science	4
Botany	1
Biotechnology	3

	During Support [2020-2021]				
Date Activity Rer					
	Department of Physics	With the			
06.02.2021 -	National Seminar on Trends in Energy Technology and Management –	Financial Support			
08.02.2021	An Overview	under DBT Star			
04.02.21 – 06.02.21	Hands-on-Training Programme on "CCTV and Security systems"	College Scheme,			
04.02.21 -	Hands-on-Training Programme on "Maintenanceof Home Appliances	number of Training			
05.02.21	and Servicing"	Programmes			
05.11.2020 - 07.11.2020 09.11.2020 - 12.11.2020 17.11.2020 - 19.11.2020	Handling and Maintenance of Laboratory Equipments	conducted for the students, Faculty members and Lab Attendants. Exhibition conducted for the			
13.02.21	Workshop on "Arduino Based Projects"	benefit of Arts			
11.03.2021-	Industrial Training Programme on "Microcontroller based Electronic	ochemi or Arts			
12.03.2021	Projects"				

06.11.2020 Training Programme to Lab attendents on "Laboratory Safety Measures and Techniques." Professional Course and other Science 23.12.2020. Analyses" 21.12.2020 Practical training on "Inorganic and Organic Semimicro Qualitative Xanalyses" National / 29.01.2021 State Level Seminar- on "Structural Characterization of Nanocarbon Materials" National / 27.02.2021 Conducted Exhibition onCelebrations of National Science Day Conference and State Level 03.03.2021 Training Programme on preparation of Sanitizer, Candle, Ink, Soap, Weder to AnnalThersas Self-help group at Chinnamoopan patty village State level 11.03.2021 & Hands-on-Training on "Preparation of Sanitizer, Candle, Ink, Soap, 11.03.2021 & Hands-on-Training on "Synthesis & Biological application of metal 12.03.2021 & Hands-on-Training Programme on "Analytical Techniques" Community. 13.03.2021 Webinar on Thrust Areas in Inorganic Chemistry" 15.03.2021 Training Programme on preparation of Sanitzer, Candle, Ink, Soap, 11.03.2021 & Hands-on-Training Programme on "Bemostration of Analytical Techniques using equipments purchased under DBT Star College Scheme" Community. 27.01.2021 Hands-on-Training Programme on "DA Isolation" 10.03.201 & Training Programme on "SDS PAGE" 11.03.2021 Hands on training programme on "SDP AGE" 11.03.2021 & Iands on training programme on "SDN PAGE" 11.03.2021 Hands on training pro		Department of Chemistry	discipline,
and Techniques"21.12 2020Analyses"and other Science23.12 2020State Level Seminar- on "Structural Characterization of Nanocarbon Materials"National /25.02.2021Hands on Training on "Estimation of total hardness of water by EDTA method"State Level Scheme27.02 2021Conducted Exhibition onCelebrations of National Science Day ovillageState Level Scheme03.03 2021Training Programme on preparation of Sanitizer, Phenoyl and Cleaning powder to AnanTherasa Self-help group at Chinamoopan patty villageState Science10.03 2021Hands-on-Training on "Preparation of Sanitizer, Candle, Ink, Soap, villageHands-on-Training Programme on analytical Techniques"11.03.2021Hands-on-Training Programme on "Analytical Techniques"Community.13.03.2021Hands-on-Training Programme on "Analytical Techniques"Community.13.03.2021Hands-on-Training Programme on "Betweeping"Community.15.03.2021Hands-on-Training programme on "Bekeeping"Community.26.11.2020 - 03.2021Training programme on "Bekeeping"Mads on training programme on "SDS PAGE"17.03.2021Hands on training programme on "SDS PAGE"Solver"15.03.201Hands on training programme on "SDC PAGE"15.03.201Hands	06.11.2020	Training Programme to Lab attendents on "Laboratory Safety Measures	Professional Course
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11. BOOKS/ JOURNALS SUBSCRIBED FROM GRANTS

S.No	Departments Supported	Pre-Support [2019-2020]	During Support [2020-2021]	Remarks
1	B.Sc. Physics	24	18	A total of 182 books received
2	B.Sc. Chemistry	56	12	from UGC
3	B.Sc. Zoology	14	13	Autonomous/Special Fees /
4	B.Sc. Mathematics	27	23	Book Banks Accounts for
	B.Sc. Computer Science	10	14	2019-2020. (Pre support)
5	Botany &	17	2	
	B.Sc. Biotechnology	17	5	During support, Under DBT
	(Self- Finance)			Star College Scheme, 104
6	B.Sc. Biochemistry	17	17	books purchased under
				contingency grant for the
				benefits of the learnig
				community.

12. OUTREACH ACTIVITIES (POPULAR LECTURES)

Pre-Support [2019-2020]

Department	Number of Activities
Physics	3
Chemistry	1
Mathematics	3

DURING SUPPORT [2020-2021]					
Date	Date Details of Resource Person Event/ Activity/Topic/ Beneficiaries				
DEPARTM	DEPARTMENT OF PHYSICS				
21.12.2020 - 23.12.2020	All the Faculty Members of Physics Department	Experimental Physics(Both in Real Lab and Virtual Lab) to Physics PG Teachers, Government Schools, Virudhunagar District			
10.03.2021	Dr. A.Azhagu Parvathi Dr.I.Rathinamala Dept. of Physics	Practical Demonstration to the Girls & Boys, Higher Secondary School, Pandalgudi, Aruppukkottai			
DEPARTM	ENT OF CHEMISTRY				
21.12.2020 To 23.12.2020	All the Faculty Members of Chemistry Department	Lecture cum Demonstration on "Semimicro inorganic and organic qualitative Analysis to the PG Assistants Chemistry Teachers, Government Schools, Virudhunagar District			
DEPARTM	ENT OF ZOOLOGY				
22.01.2021	Dr.P.Veeramuthumari, Assistant Professor	Lecture cumTraining Programme on "DNA isolation and PCR"PG Assistants of Biology teachers, Government Schools, Virudhunagar District			
05.02.2021	Dr.M.Tamilselvi, Associate Professor	Guest lecture on "Culture Practices in Beekeeping" in St.Marys' College, Thoothukudi.			
10.03.2021	Dr.P.Vijaya Assistant Professor	Awareness Programme on "Women's Health" to the Village people of K.Usilampatti, Virudhunagar.			

DEPARTMENT OF MATHEMATICS			
28.12.2020	Dr.P.Geetha, Mrs.P.GetchialPonpackiavathy, Dr.P.Sooriyakala, Dr.M.UmaMaheswari, Department of Mathematics	Model Demonstration on "Use of Advanced Mathematical Aids in Class Room Teaching to the PG Assistants of Mathematics, 20 Government Schools, Virudhunagar District	
01.02.2021	Dr.VimalRarh, Head & Assistant Professor, Department of Chemistry, S.G.T.B. Khalsa College, University of Delhi.	Guest Lecture on "Awareness on MOOC" to the College teachers under Outreach Programme through online	
28.05.2021	Mrs.S.Kohila, Assistant Professor, Department of Mathematics (Aide	Guest Lecture on "CSIR NET& SET Exam in Mathematics in Dr. N. G. P. Arts and Science College, Coimbatore	
03.06.2021	Dr.M.UmaMaheswari, Assistant Professor, Department of Mathematics	Guest Lecture on Introduction to Digital Tools in Google Workspace in Academy of Maritime Education and Training, AMET Deemed to be University, Chennai.	
DEPARTM	ENT OF COMPUTER SCIENCE		
21.12.2020 TO 22.12.2020	All the Faculty Members , Computer Science Department	Lecture cum practicals on Advanced concepts in "PYTHON" To Computer Instructors (Grade-I) of various Government Schools ,Virudhunagar District	
DEPARTM	ENT OF BOTANY	Schools, virudinungar District	
17.12.2020	Dr.B. KarunaiSelvi Assistant Professor & Head Department of Botany,	Lecture cum practicals on "Taxonomic Workout of Angiospermic Plants- Lilliaceae" to the Biology PG Assistants of Government School teachers, Arupukottai&Srivilliputhur	
18.12.2020	Dr.R.Murugalakshmi Kumari, Assistant Professor of Botany, Dr. R. Sreebha, Assistant Professor of Botany,	Lecture cum practicals on Taxonomic Workout of Angiospermic Plants- Solanaceae and Fabaceae to the Biology PG Assistants of Government School teachers, Virudhunagar &Sivakasi	
DEPARTMI	ENT OF BIOTECHNOLOGY		
17.12.2020	Ms. K Indira, & Mrs. Sinthia Ganesan, Assistant Professor of Biotechnology,	Lecture on "Bioresource Conservation" to the Biology PG Assistants of Government School teachers, Virudhunagar District	
1.3.2021	Dr.N.Saranya, Assistant Professor in Bioinformatics, Dept. of Plant Molecular Biology and Bioinformatics, TNAU, Coimbatore.	Weninar on "Molecular Docking" and 12 colleges in TamilNadu participated	
DEPARTM	ENT OF BIOCHEMISTRY		
18.12.2020	R. Mallika, Associate Professor, R. Gloria JemmiChristobel, Assistant Professor	Lecture on "Applications of Biotechnology and Molecular Genetics" to the PG Assistants of Government School teachers, Virudhunagar District	

13. Colleges mentored to apply for DBT Star College Grants

Pre support	During Support
Nil	2 colleges mentored to apply for DBT Star College
	grants
	1. The Standard Fire Works Rajarathinam College for
	Women,Sivakasi
	2. Srimad Andavan Arts and Science College, Trichy

14. INVITED GUEST LECTURES

Pre-Support [2019-2020]			
Department	Number of Invited Guest Lectures		
Physics	10		
Chemistry	3		
Zoology	3		
Mathematics	4		
Computer Science	3		
Botany	2		
Biotechnology	1		
Biochemistry	4		

During support[2020-2021]					
Date	Title	Resource Person			
Department o	Department of Physics				
16.11.2020	Troubleshooting of Electrical Appliances	Mr.S.Balamurugan, B.E., Lecturer/EEE, V.S.V.N.Polytechnic College, Rosalpatti Village, Virudhunagar			
01.12.2020	The Development of High Quality and Unidirectional Nonlinear Optical And Ferroelectric Single Crystals For Practical Device Applications	Dr.MuthuSenthil Pandian, Research Scientist, Photo Voltaic Devices Laboratory, SSN Research Centre, SSN Institutions, Chennai			
09.12.2020	Energy Conservation	Mr.K.Selvakumar,B.E.,MBA., Chief Engineer, TamilNadu Electricity Board, Tirunelveli			
28.12.2020	Nonlinear Dynamics- An Introduction	Dr.S.Vijayalakshmi, Associate Professor of Physics, Presidency College, Chennai			
05.01.2021	Nano materials in Energy storage Applications	Dr.B.Karthikeyan, Assistant Professor of Physics, MepcoSchlenk Engineering College, Sivakasi			
06.01.2021	Internet of Things	Dr.P.Thendral M.E., Ph.D., Associate Professor, School of Computing, Deputy Director, Kalasalingam Academy of Research and Education, Krishnankoil			
27.01.2021	Transition Metal Oxide Based Supercapacitors	Dr.K.K.Purusothaman M.Sc.,Ph.D., Assistant Professor of Physics, Arignar Anna Govt. Arts and Science College. Pondicherry.			
27.01.2021	An Introduction to Quantum Nanomaterials and their Applications	Dr.D.Nataraj, Associate Professor of Physics, Bharathiyar University, Coimbatore			

29.01.2021	TCO Thin Films by Spray Deposition	Dr.R.Ramesh Babu, Assistant Professor of Physics, Bharathidasan University, Thiruchirapalli		
01.02.2021	Basics of X-ray Diffraction of Material Characterization	Dr.K.Saravana Kumar, Assistant Professor of Physics, S. R. Naidu Memorial College, Sattur		
15.03.2021	Thermodynamics	Dr.A.Basherrudin Mahmud Ahmed, Assistant Professor, Department of Theoretical Physics, School of Physics, Madurai Kamaraj University, Madurai		
Department	of Chemistry			
27.11.2020	Protein Structure, Folding and its Catalytic Activity	Dr. P. Muthumareeswaran, DST - INSPIRE Faculty, Department of Industrial Chemistry, Alagappa University, Karaikudi		
08.01.2021	Microanalytical Techniques in Physical Chemistry	Dr. A. JeyaRajendran, Associate Professor of Chemistry, Loyala College, Chennai		
06.02.2021	Electro analytical techniques- Cyclicvoltametry and Polarography	Prof. V.S. VasanthaM.Sc.,Ph. D.,Registrar (i/c) Head, Department of Natural Products Chemistry, School of Chemistry, Madurai Kamaraj University, Madurai		
Department	of Zoology			
30.11.2020	Bioprospecting of Ascidians	Dr. H. Abdul Jaffar Ali, Head and Assistant Professor, Department of Biotechnology, Islamiah College, Vaniyambadi		
7.1.2021	Gut Microbiome''	Dr.H.Poornimakkani, Assistant professor of Zoology, Thiagarajar College, Madurai.		
12.1.2021	Marine Biodiversity''	Dr.C.Stella, Professor &Head, School of Marine Science, Department of Oceanography &CAS. Alagappauniversity, Thondi.		
09.02.2021	Probiotics	Dr. A. Palavesam, M.Sc., M.Phil., Ph.D., Professor and Head, Department of Animal Science, Manonmaniam Sundaranar University, Tirunelveli.		
Department	of Mathematics			
30.11.2020	Construction of Mathematical Models	Mr.Dinesh,B.E., Triple Point, Madurai		
22.12.2020	Ramanujan's Theories	Dr.D.Bala Ratnakar, Director(Academics), International Multidisciplinary Research Foundation Acharya Nagarjuna,University, Andrapradesh,		
23.12.2020	Working on Data Science using R			
16.02.2021	Applications of Stochastic Differential Equations	Dr.S.P.Rajasekar, AssistantProfessor, Department of Mathematics, Government Arts College for Women, Nilakottai- Dindigul.		
Department of	of Computer Science			
10.03.2021	Get Ready for Industry 4.0	Mr. RamamurthyPrabhuram, Ramar Tech Information Systems, Consulting Services, Madurai		
16.03.2021	Cloud Computing – Architecture & Implementation	Dr. T. Revathi, Head & Professor of Information Technology, Mepco Schlenk Enginering College, Sivakasi, Tamilnadu.		

16.03.2021	Solar Power Plants Automation	Mrs.K.Malarvizhi, Manager, Veyilsakthi Solar, Madurai.		
Department of	f Botany			
28.10.2020	Respiration in plants	Dr.B.Sivasankari, M.Sc., M.Phil., Ph.D., Assistant Professor of Biology, Gandhigram Rural Institute Dindigul.		
04.11.2020	Medicinal Plant Diversity: Utilization, Threats & Conservation	Dr.Ramasubbu M.Sc., M.Phil., Ph.D., Assistant Professor of Biology, Gandhigram Rural Institute, Dindigul.		
07.01.2021	Trends in Plant Tissue Culture	Dr.S.Karuppusamy, Assistant Professor of Botany, The Madura College, Madurai.		
01.02.2021	Mycorrhizae:Symbiotic mediators of Plants and Ecosystem	Dr. M. Jothi Basu, Assistant Professor of Botany, Directorate of Distance Education, Science Campus, Alagappa University, Karaikudi.		
06.02.2021	Home Remedies in Siddha Medicine- An Overview	Dr.C. Mary Sharmila, M.D(S), PDCR, PCPV., Medical Officer, Arogya Siddha Hospital, Mugappair Chennai.		
24.03.2021	Traditional Uses of Medicinal Plants and Herbs – An Overview	Dr.R.Aruna, M.Sc.,Ph.D., Assistant Professor of Botany,Thiagarajar College, Madurai		
Department of	f Biotechnology			
11.11.2020	Solid Waste management and Biogas Production	Dr.N.Vasudevan, Associate Professor & Head, Department of Botany, S.N. College, Madurai		
26.11.2020	Career Opportunities in Life Science	Mr.M.Aravintth, Corporate Relationship and Placement Officer, ACE College of Engineering, Trivandrum		
20.01.2021	Genetic Engineering and its Application	Dr.S.Venkatesh, Assistant Professor of Biotechnology, ManonmaniamSundaranar University, Tirunelveli		
24.02.2021	Plant Tissue Culture Techniques	Dr.J.VijayaKumar, Assistant Professor of Biotechnology, Ayya Nadar Janaki Ammal College, Sivakasi		
Department o	f Biochemistry			
30.11.2020	Our Discovery of Virus	Dr.Sudhakar M.Sc., Ph.D., Dept of Biotechnology, Manonmaniam Sundaranar University, Tirunelveli.		
11.03.2021	Keeping your Kidneys Healthy	Dr. S. M. RathinavelM.B.B.S.C.Diab CARE AKPS Hospital, Virudhunagar		

10. SELF EVALUATION

S.NO	Department	Objectives	% achieved	Reasons for under achievement?If achieved, state in quantitative metrices
1 Physics	Guest Lecture organized	100	2	
	Hands on Training Programme	-	2	
		Seminars/ Workshop organized		2
		Research Centre and Inudstrial Visit		2
		Student Minor Projects completed		2
2	Chemistry	Guest Lecture organized	100	2
		Hands on Training Programme		2
		Seminars/ Workshop organized		2
		Research Centre and Inudstrial Visit		2
		Student Minor Projects completed		2
3	3 Zoology	Guest Lecture organized	100	2
		Interdepartmental Competitions conducted		2
		Outreah activities organized		2
		Hands on Training Programme		2
		Student Minor Projects	-	2
4	& B.Sc. Computer	Purchased of Non-recurring items	100	2
		Guest Lecture Programme		2
		Workshop/Seminars organized		2
Science		Outreah activities organized		2
	Student Minor Projects completed		2	
5	5 Botany & B.Sc. Biotechnology (Self- Finance}	Guest Lecture Programme	100	2
		Outreach Activities		2
		Hands on Training Programme		2
		Research Centre and Inudstrial Visit		2
		Student Minor Projects Completed		2
6		Inter-departemental Competitions	100	2
		Lab Attendant Activity		2
	B.Sc. Biochemistry	Conference / Workshop organized		2
		Visit to Research Centre and Industries		2
		Student Minor Projects completed		2

• For quantitative analysis you may fix five objective (Max) each having 2 marks and accordingly can calculate the matrix

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Member Secretary & Coordinator Dr. M. TAMILSELVI Member Secretary / Co-ordinator DBT - Star Cellege Scheme V.V. Vanniaperumal College for Women Virudhunagar-626 001. Tamilnadu, India. G-M-Memora Rami Chairman & Principal Dr. S.M. MEENA RANI Principal / Chairman DBT - Star College Scheme V.V. Vanniaperumal College for Women Virudhunagar-626 001. Tamilnadu, India.

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