

**ANNUAL ACADEMIC PROGRESS REPORT OF THE COLLEGE UNDER
AUTONOMY FOR THE YEAR 2020-21**

- 1. Name & Address of the College** : D.K.M. College for Women (Autonomous),
No.57, College Road,
Sainathapuram, Vellore – 632 001
Tamilnadu.
- 2. Name of the Affiliating University** : Thiruvalluvar University, Vellore.
- 3. Current Validity period of Autonomy** : 2014 – 2020
- 4. Nature of the Institution** : Multi Faculty
UG/PG/Research/Single Faculty/Multi Faculty
- 5. Whether CBCS is implemented or Not** : Yes
- 6. Whether Accredited/Reaccredited or Not, Details** : Reaccredited ‘B’ Grade – Jan 2016

7. Academic Programmes and their details being conducted in Autonomous Colleges

	Aided	Unaided
U.G.	B.A. History B.Com. B.Sc., Mathematics B.Sc., Chemistry B.Sc., Zoology	B.Sc. Biochemistry B.Sc. Microbiology B.Sc. Nutrition Food Service Management and Dietetics B.Sc. Computer Science B.C.A. B.Com B.Sc. ISM B.Sc. Biotechnology B.B.A. B.A. English B.Sc Psychology B.ComC.A B.A Tamil B.Sc Mathematics
P.G		M.Sc. Applied Microbiology M.Sc. Computer Science M.Sc. Biochemistry M.Sc. Foods & Nutrition M.Sc. Chemistry M.Sc. Mathematics M.A HRM M.Com M.A. English M.Sc Zoology M.A. History M.Sc. Biotechnology

M.Phil (FT/PT)		M.Phil. Chemistry M.Phil. Commerce M.Phil. English M.Phil. Bio-chemistry M.Phil. Computer Science M.Phil. Management studies M.Phil. Microbiology M.Phil. Food and Nutrition M.Phil. Mathematics M.Phil. Biotechnology
Ph.D (FT/PT)		Chemistry Commerce History Zoology Mathematics Biochemistry Foods and Nutrition Microbiology Economics (PT) Tamil (PT) English(PT) Management Studies (PT)

8. Activities conducted under Autonomy 2020-2021

a) Details of Guest Lecture meetings conducted by the Department

S. No	Date	Resource Persons (Name & Designation)	Title	Online/ Offline mode	No. of Beneficiaries
Department of Mathematics					
1	01.03.2021	Dr. J. Jesintha Rosline M. Sc., M. Phil., PGDCA., Ph.D., Assistant Professor, Department of Mathematics, Auxilium College (Autonomous), Vellore – 632006.	Roll of Fuzzy Sets in Graph	Online	100
2	23.02.2020	Dr.A.Merciline Anita Assistant Professor Department of Mathematics Sacred Heart College, Thirupattur	Mathematical Models for Social Science Research	Online	130
Department of Chemistry					
3	26.02.2021	Dr. A. Amsavel, Assistant Vice President, Quality and Regulatory,	The Job Opportunities in	Offline	250

		Malladi drugs and pharmaceuticals, Ranipet	Indian Chemical Industries		
4	03.03.2021	Dr.S. Guhanathan Assistant Professor of Chemistry, Muthurangam Government Arts College, Vellore-632001	Chemistry of Natural and Man Made Things	Offline	250
Department of Zoology					
5.	06.03.2021	Dr. Reena Rajkumari B, Assistant Professor Sr- Grade 2, Department of Integrative Biology, School of Bio Sciences and Technology, VIT-Vellore Campus	Burden of the Tropics: Vector Borne Diseases	Online	150
Department of History					
6	19.02.2021	Prof. S. Chandhini Centre of Advanced Study, Aligarh Muslim University, Uttar Pradesh.	Pallavas Copper Plates and place names	Online	215
7	26.02.2021	Dr. R. Mohamed Hasan, Assistant Professor, Department of History, C. Abdul Hakeem College, Melvisharam.	Services and Contributions of Savitribai Phule to the Society	Online	215
Department of Commerce					
8	20.02.2021	Dr.D.Hemalatha, Guest Faculty Department of Commerce Anna University Chennai.	Future Trends in Advertising	Online	220

b.) Details of Seminars/Workshop/Conferences conducted by the Department

S. No	Date	Title of the Seminars/ Conferences/ Workshops	State/ National/ International	Online /Offline mode	Resource Persons (Name & Designation)
Department of English					
1.	20.06.2020	English Language Learning from Home: Techno-Pedagogical Perspectives	National Webinar	Online	Dr. S. Senthilnathan, Director, UGC-Human Resource Development Centre and Professor, Department of Educational Technology, Bharathidasan University,

					Tiruchirappalli
Department of Tamil					
3.	19.6.2020	TamizhIllakkanaI lakkiyaMarabuga l	Internation al	Online	Dr.Chandrika Subramanian, Barrister in Supreme Court, Australa, Dr.B.Jaiganesh, HoD , Department of Tamil< SRM Educational InSTITUTE Chennai
Department of Commerce					
4.	03.06.2020	Webinar on 'Strategies to Business Owners during COVID 19'	National	Offline	Mr.N.S.Vijaya Ganesh, Certified Soft Skill Trainer, Founder – T.I.P.S Academy
5.	18.02.2021	Conference on 'Women Health, Wealth and Entrepreneurship ,	National	Online	Dr.R.Subashini, Assistant Professor (Senior), School of Information Technology and Engineering & Director, Nalam Medical Centre and Hospital, Sathivachari, Vellore.
Department of Mathematics					
6.	16.07.2020	An Exclusive Virtual Power Seminar on "Job Skills to Succeed in the Post Pandemic World"	State	Online	Ms. Jenefa Mercy, Assistant Manager, Allsec Technologies Limited, Chennai
Department of Chemistry					
7.	21.01.2021	Need for Nuclear energy	National level in colaboratio n with Indhra Gandhi Centre for Atomic Research (IGCAR)	Online	Mrs.JalajaMadan Mohan, Head, Technical Coordination and Public Awareness section (IGCAR) Mr. K. Parthipan, Scientific Officer (IGCAR) Mr. M. Ramu, Sr. Scientific Assistant (IGCAR)
8.	18.02.2021	Webinar on "Conducting Polymers and	National	Online	Dr. S. Palaniappan,

		their Applications”			Senior Principal Scientist, Polymers and Functional Materials Division, CSIR-Indian Institute of Chemical Technology, Hyderabad
Department of Zoology					
9.	04.08.2020	Webinar on Aquaculture	National	Online	Dr.R.Karthik, Founder and CEO, Vet Biotics, Animal health care Pvt.Ltd, Mumbai Dr. R. Sudakaran, Assistant Professor Senior, Dept. of Integrative Biology, School of Biosciences and Technology, VIT, Vellore
Department of Economics					
10.	12.06.2020	Webinar on COVID-19:Economic Opportunities and Challenges	State	Online	Dr.K.Umadevi Assistant Professor, PG & Research department of Commerce, Guru Nanak College, Chennai
Department of Physics					
11.	04.06.2020	National level Webinar on Applications of Nanotechnology	National	Online	Dr.P.Hema Bindu Assistant Professor Nizam College, Osmania University, Karnataka.
12.	22.02.2021	Webinar on Role of Physics in Science and Technology Development	National	Online	Dr. S. Devashankar Assistant Professor Of Physics P.G & Research Department Of Physics, LoganathaNarayanasamy Government College (Autonomous), Ponneri- 601 204, Tamilnadu, India
Department of Biochemistry					
13.	22.02.2021	Webinar on “Role of Biochemist in Healthcare Management during COVID pandemic”	State	Online	Dr.Kasthuri Natarajan, Scientist, Department of Translational Research, SRM Medical College Hospital and Research, SRM Institute of science and Technology,

					Kattankulathur, Kancheepuram DT.
Department of Food and Nutrition					
14.	25.02.2021	Webinar “A View on Renal Diseases”	State	Online	S.Mary Magdalene Santa Dietitian, DiabEndoIndia, Chennai
Department of Microbiology					
15.	12.01.2021	International Webinar on Sustainable alternate for replacing plastics to avoid the effects of plastic pollution, sponsored by TNSCST	International	Online	Dr Ramasamy Rajesh Kumar Senior Scientific Researcher Institute of Nuclear-Agriculture Sciences (INAS) (International Atomic Energy Agency’s (IAEA) First Collaborating Centre) Key Laboratory of Nuclear Agricultural Sciences of Ministry of Agriculture of PR China College of Agriculture and Biotechnology Zhejiang University (China rank #03, QS World ranking 54), PR China Dr. V.Balasubramanian, Assistant Professor II, Amity Institute of Biotechnology, Amity University- Chhattisgarh, Raipur
16.	15.02.2021	Virtual workshop entitled “Disease models of Lab Animal Experimentation”	National	Online	Dr. D. Ezhilarasan, Assistant Professor, Department of Pharmacology, Saveetha Dental College, Saveetha Institute of Medical & Technical Sciences, Chennai.
Department of Psychology					
17.	26.03.2021	Webinar on the topic " The development and practice of community Psychology"	State	Online	Mrs.A.Thendralarasi Assistant Professor of Psychology Apollo Arts and Science College Guduvancherry, Chennai

c) Faculty Development Programme & Programmes Organized by the College

S. No.	Date	Title of the Programme	Topic	Resource Person
Internal Quality Assurance Cell				
1.	05.06.2020	Faculty Development Program	Governance and Best Practice	Dr.S.Sivasubramaniam Former Vice Chancellor of Bharathiar & Noorul Islam Universities
2.	05.08.2020	Faculty Development Program	Learning through Digital Platforms	Dr.K. Kishore Assistant Professor of Commerce, Voorhees College, Vellore
MHRD Institutional Innovation Cell				
3.	14.10.2020	Training Session for Staff members	First Brainstorming Session	1. Dr. M. Kanthababu Professor & Director of CIPR Anna University, Chennai 2.Mr.K. Senthamil Selvam Founder of Arivuthotam, Vellore. 3.Dr.S. Babu Professor & Dean, VIT School of Agricultural Innovations & Advanced Learning (VAIAL), VIT-Vellore. 4.Mrs.R. Kalpana Managing Director, AK foods, Vellore 5.Mrs.S.Deepalakshmi Managing Director, SD Farms, Vellore

4.	27.10.2020	Training Session for Staff members	Second Brainstorming Session	<p>1.Dr. M. Kanthababu Professor & Director of CIPR Anna University, Chennai</p> <p>2.Mr.K. Senthamil Selvam Founder of Arivuthotam, Vellore.</p> <p>3.Dr.S. Babu Professor & Dean, VIT School of Agricultural Innovations & Advanced Learning (VAIAL), VIT-Vellore.</p> <p>4.Mrs.R. Kalpana Managing Director, AK foods, Vellore</p> <p>5.Mrs.S.Deepalakshmi Managing Director, SD Farms, Vellore</p>
5.	30.11.2020	National level Webinar	IPR, Start-Up and Innovation	Dr. M. Kantha Babu Professor & Director of CIPR Anna University, Chennai
6.	03.12.2020	National level Seminar	Do you want risk zone or comfort zone	Mr.Senthamil Selvam Founder of Arivuthotam Vellore
7.	28.12.2020	National level Seminar	Opportunities for budding Entrepreneur	Mrs.R. Kalpana Managing Director AK foods Vellore
8.	30.12.2020	National level Seminar	“Women Born to Win	Mrs.S.Deepalakshmi Managing Director SD Farms, Vellore
9.	27.03.2021	Webinar	Revolutionist antimicrobial therapy using nanotechnology	Dr.L.Rene Christena Senior Project Associate HCVD, COVID-19CSIR, IndianInstitue of Petrolleum Dehradon
10.	06.02.2021	Webinar	Seeing Beyond Visible	Dr.R.Mohandoss

				Department of Medical Physics, Bharathiar University, Coimbatore.
MHRD IIC in collaboration with Departments				
Department of History				
11.	31.03.2021	Seminar	Need and importance of women entrepreneurs	Lt.Dr.A.Amirthavalli Associate Professor & Head, Department of History, D.K.M College for Women, Vellore
Department of Zoology				
12.	30.03.2021	Seminar	Intellectual Property Rights	Dr. V.Kiruthiga, Assistant Professor of Zoology, D.K.M College for Women, Vellore
Department of Management Studies				
13.	20.02.2021	Seminar	Webinar on Good to Great	Mr.J.JohnSherlin HR, Renault Nissan Technology &Business Centre, Chennai
Department of Biochemistry				
14.	17.03.2021	Guest Lecture	Self-Employment Opportunities For Women	Dr.V.Anitha B.B.A. Natural Living Social Activist, Trichy
Department of Commerce				
15.	30.03.2021	Webinar	Business Processing, Design and Development	Dr. A. Balachandran, Senior General Manager, VIT Technology Business Incubator
Department of Chemistry				
16.	16.03.2021	Workshop	Instrumentation	DST-FIST lab instrumentation incharge staff members

9. Number of seminar, conference and workshop presented and participated by the faculty

S.No	Name of the Staff	Number of Quiz & Webinar Participation
Department of English		
1	Mrs.V.P.Gayathri	07
2	Mrs. M. Gayathri	24
3	Dr M.Manimozhi	04
4	Mrs. S. Indragandhi	39
5	Mrs. T. Parvathi	24

6	Mrs. D.Sasikala	24
7	Mrs. S. Sumathi	01
8	Mrs. D. Ramya	11
9	Mrs. P.R.Thilagavathi	06
10	Mrs. E. Arivazhagi	26
11	Mrs. M. Angelin Mercy	04
12	Mrs. J.Josephine Mary	02
13	Mrs. S. Tamil Elakkiya	02
Department of Mathematics		
14	Mrs. C. Revathi	01
Department of Zoology		
15	Dr. D. Sasikala	33
16	Dr. V.Kiruthiga	27
17	Dr. V.Rekha	06
18	Dr.A.Vinodhini	27
Department of Psychology		
19	Mrs.R.Safina Selva	23
20	Mrs.D. Aarthi	13
Department of Foods and Nutrition		
21	Mrs.K.Gowthami	02
22	Mrs. S. Ranjitha	02
Department of Microbiology		
23	Dr. A.Vidhya	16
24	Mrs. A.Barathi	04
25	Dr. J.Hemapriya	02
26	Ms. R. Sangeetha	16
Department of Management studies		
27	V.S.Palaniammal	21
28	Mrs. R.Maheshwari	04
29	Mrs. A.Kalaiselvi	14
30	Dr.E.Veronica	29
Department of Economics		
31	Dr.R.Radjavalley	09
Department of Computer Science and Application		
32	Mrs.G Sangeetha Lakshmi	62
33	Mrs. B.Arulmozhi	138
34	Mrs. D. Saranya	13
35	Mrs. K.Ayesha	29
36	Mrs. S.Shanthi	29

37	Mrs. V. Lakshmi Pratha	19
38	Mrs. P.Ramya	11
39	Mrs. R.Bhuvaneshwari	10
40	Dr.R.Hamsaveni	07
Department of Commerce		
41	Dr.R.Padmaja	14
42	Dr. A. SudarVizhi	12
43	Dr.T.Bharathi	104
44	Dr.G. Bhavani	92
45	Mrs. C.Sumitha	10
46	Mrs. S.Sasikala	61
47	Mrs. J. Janani	08
48	Mrs. P. Indhumathi	35
49	Mrs. P.Elavarasi	31
50	Mrs. J.Anbazhagi	08
51	Dr. V. Sudha	17
Department of Chemistry		
52	Dr. S. Santha Lakshmi	40
53	Dr. S. Sashikala	02
54	Dr. R. Arunadevi	28
55	Dr.T.Gomathi	18
56	Mrs.J.Saranya	18
57	Dr. D. Shakila	16
Department of Biotechnology		
58	Dr.D.Charumathi	01
Department of Biochemistry		
59	Dr.V.Prabha	09
60	Dr. B.Hebsibahelsie	17
61	Dr.S.Asha	11
62	Mrs.G.Nithya	11
63	Dr.K.Shoba	37

10. Honours / Awards Received by the Faculties

S. No.	Name of the Staff	Date of the Award	Name of the Award	Type of Honours / Awards	Name of the Institution Inducted the award
Department of Chemistry					

1.	Dr. P.N. Sudha	2018 (Three Years)	Academic Council Member	Certificate	Thiruvalluvar University, Vellore
2.	Dr. P.N. Sudha	2020-21	Listed in Top 2% Scientists in "Polymers"	Certificate/Honour	Stanford University
3.	Dr. T. Gomathi	2020 - 2021	Certificate of excellence in reviewing	Certificate	Carbohydrate polymers
4.	Dr. T. Gomathi	2020- 2021	Certificate of excellence in reviewing	Certificate	Arabian journal of chemistry
5.	Dr. T. Gomathi	2020 - 2021	Certificate of excellence in reviewing	Certificate	Sustainable chemistry and pharmacy
6.	Dr. T. Gomathi	01.06.2020	Best Facilitator award-2020	Certificate	Association of Indian Biologists, Tamil Nadu, India
7.	Dr.R.Arunadevi	2020	Young Achiever Award	Certificate	Institute of Scholars, Bangalore
8.	Dr.R.Arunadevi	2020	Research excellence	Certificate	Institute of Scholars, Bangalore
Department of Tamil					
9.	Dr.G.Sujatha	06.02.2021	ThiruvalluvarSath anaiyalar Viruthu-2021	Certificate	World Achiever family and Yogi Pathipagam
10.	Dr.G.Sujatha	21.02.2021	Thamizhthaththao o.ve.sa.viruthu	Certificate	Research center for sangam literature, Perambalur
11.	Dr.G.Shanthi	06.02.2021	ThiruvalluvarSath anaiyalar Viruthu-2021	Certificate	World Achiever family and Yogi Pathipagam
12.	Dr.G.Shanthi	27.10.2020	Aurtijothi Viruthu	Certificate	VishvaSivanatham Trust &paithamillakkiya Paravai
13.	Dr.G.Shanthi	7.12.2020	Elam ArignarViruthu	Certificate	PornaiElakkiyaKalagam, Tamilnilanam Trust, Nakka Trust
14.	Dr.S.Thamaraiselvi	7.12.2020	Elam ArignarViruthu	Certificate	PornaiElakkiyaKalagam, Tamilnilanam Trust, Nakka Trust

15.	Dr.S.Thamaraiselvi	27.10.2020	Aurtijothi Viruthu	Certificate	VishvaSivanatham Trust &paithamiIlakkiya Paravai
16.	Dr.S.Thamaraiselvi	06.02.2021	ThiruvalluvarSath anaiyalar Viruthu-2021	Certificate	World Achiever family and Yogi Pathipagam
17.	Dr.S.Sasikala	7.12.2020	Elam ArignarViruthu	Certificate	PornaiElakkiyaKalagam, Tamilnilanam Trust, Nakka Trust
18.	Dr.S.Sasikala	06.02.2021	ThiruvalluvarSath anaiyalar Viruthu-2021	Certificate	World Achiever family and Yogi Pathipagam
Department of Commerce					
19.	Dr.A.Sudarvizi	07.03.2021	MaanbumiguMagalir 2020	Certificate/Medal	Dr.Abdul Kalam, Kalvi and PasumaiArakkattalai
Department of Physics					
20.	Dr. N. Jabena Begum	2020-21	Best Scientist Award	Certificate of Appreciation	Indian Academic Researchers Association (IARA), Trichy

11. Details of staff members acted as Chief Guest/Resource Person/ Judges/Chair person for the programmes during the Year

S. No.	Name of the Staff	Details of the Programme	Venue	Acted as
Department of Tamil				
1.	Dr.S.Thamaraiselvi	Debate	Illanthamizharperavai Thirunelveli(on line)	Judge
2.	Dr.S.Thamaraiselvi	Seminar-chief guest	Illanthamizharperavai Thirunelveli(on line)	chief guest
3.	Dr.S.Thamaraiselvi	Rotract -Club-Civic Awareness Program-	Auxilium College-on line program	Chief guest
4.	Dr.S.Thamaraiselvi	Pongal celebration-	Auxilium college-on line program	Chief guest
Department of Bio Chemistry				
5.	Dr.K.Shoba	Virtual International Conference on Advancements in Research and Education	Global Academicians and Researchers (AGAR) and	Resource Person

			Association of Indian Biologists (AIB), Tamil Nadu, India	
Department of Chemistry				
9.	Dr. T. Gomathi	Three Weeks Workshop on Beat the Competitors in GATE / NET and Competitive Exams	Kalasalingam Academy of Research and Education, Krishnan Koil.	Resource Person
Department of Commerce				
10.	Dr.R.Padmaja	Addressed general public on 'Motivational Thoughts'	Through You tube	Resource Person
11.	Dr.A.Sudarvizhi	Acted as Resource Person for a Special Lecture on the topic "You are your Own Master"	KMG College of Arts and Science, Gudiyatham	Resource Person
		Acted as Resource Person for a Webinar "Discover the Diamond in You"	MMES Women's Arts and Science College, Melvisharam	Resource Person
12.	Dr.T.Bharathi	Acted as Resource Person for a Webinar of 'Creating Google forms'	DKM College for Women, Vellore	Resource Person
13.	Dr.K.Vinithi	Acted as Resource Person for a Webinar of 'Using Excel for Data Collection'	DKM College for Women, Vellore.	Resource Person
		Acted as Resource Person for a Guest Lecture Meeting on the topic "Shaping Minds"	Voorhees College, Vellore.	Resource Person
Department of Computer Science				
14.	Dr. M. Vasumathy	Webinar on Medical Image Processing	Auxilium College	Resource Person
Department of Economics				
15.	Dr.R. Banumathy	Resource Person	Pachaiyappa's College for Women, Kanchipuram	Resource Person

16.	Dr.R. Banumathy	Resource Person	VVNKM School, Vellore	Resource Person
17.	Dr.R.Radjavalley	Examination	Ida Scudder School, Vellore.	External Examiner
Department of English				
18.	Dr M.Manimozhi	Two Days International Webinar	Dr MGR Govt College Madhanur	Chaired A Session and acted as a Moderator
Department of Foods And Nutrition				
19.	Mrs.K.Gowthami	ICDS talk on infant feeding practices	Vellore	Resource Person
20.	Mrs.K.Gowthami	Invited talk on millets	DKM College Vellore	Resource Person
21.	Mrs.K.Gowthami	Invited talk on Hidden facts about Vitamin D and Obesity	Gandhigram university, Dindukkal	Resource Person
22.	Mrs.S.Ranjitha	Invited talk on Food adulteration	DKM College Vellore	Resource Person
Department of History				
23.	Lt.Dr.A.Amirthavalli	IIC – MHRD	DKM College Vellore	Resource Person
Department of Microbiology				
24.	Dr. A.Vidhya	Invited Talk	Gandhigram University	Resource Person
25.	Dr. J.Hemapriya	International Webinar	V.H.N Senthikumara Nadar College, Virudhunagar	Resource Person
Department of Physics				
26.	Dr.C.Vinothini	National level Webinar on Applications of G Tools	Department of Commerce of D.K.M College For Women	Resource Person
27.	Dr. N. Jabena Begum	Webinar on Green Synthesis of Nanoparticles towards Biomedical Applications (01.07.2020)	PG & Research Department of Physics, Government Arts College for Women (Autonomous), Pudukkottai (ONLINE MODE)	Resource Person
28.	Dr. N. Jabena Begum	National Web Conference on Synthesis and	PG & Research Department of Physics, Muthurangam	Panel member

		Characterization of Novel Materials (06.07.2020 & 07.07.2020)	Government Arts College (Autonomous), Vellore. (ONLINE MODE)	
29.	Dr. N. Jabena Begum	International Webinar on Advances in Nanomaterials Research 14.07.2020	PG & Research Department of Physics, AVVM Sri Pushpam College (Autonomous), Poondi, Thanjavur. (ONLINE MODE)	Resource Person
30.	Dr. N. Jabena Begum	DEEKSHARAMBH (As per the UGC Norms) Student Induction Programme 2020-2021 09.09.2020	PG & Research Department of Physics, Bon Secours College for Women, Thanjavur. (ONLINE MODE)	Resource Person
31.	Dr. N. Jabena Begum	Children's Science Exhibition (19.01.2021)	28th National Children's Science Congress 2020 District Congress	judge
32.	Dr. N. Jabena Begum	National Science Day Celebration 2021	PG & Research Department of Physics, Muthurangam Government Arts College (Autonomous), Vellore.	Resource Person
33.	Dr. N. Jabena Begum	Special Guest lecture	PG & Research Department of Physics, Sacred Heart College, Tirupattur.	Resource Person

12. CURRICULUM DESIGN AND DEVELOPMENT

Details of the Curriculum Changes in syllabus during 2020-2021

DEPARTMENT OF ENGLISH
The Department of English has been committed to the constant upgrading of the curriculum and tries to raise its own benchmarks by extensively revising the curricula of the various courses offered. The syllabus is framed on a centre-periphery model, is inclusive and focuses on offering courses that impart employability skills to learners. In the year 2020, the Department embarked

on revising the syllabus. While retaining the courses based on the literary canon, new courses also were introduced. The following changes were made in the curriculum

B.A. ENGLISH

SEMESTER III

The Following new course was added to the curriculum:

Skill Based 1 - Basics of English

- **Core V British Prose** The course was extensively revised by adding the origin and the development of prose and its types and new texts and prose writers.
- In **Core VI - British Drama**, the Origin of Drama, Technical Aspects of Drama, Plot, Character, Genre, Diction, Dialogue, Setting, Space and Theme, Ben Jonson's "Every Man in his Humour", T.S.Eliot's "Murder in the Cathedral", and Samuel Beckett's "Waiting for Godot" were introduced.
- In **Allied III - History of English Literature** an overview of the English Literary Canon and the chronological evolution of the English Literary genres are in all five units covering the works of a few representational writers from prose, poetry, drama and fiction.
- In **Non-Major I English for Communication-I**, Sounds of English, General and Business Communication, Conversational Strategies and the reading of Pie Charts, Graphs, Tables and Diagrams were newly introduced.

SEMESTER IV

The following new courses were added to the curriculum:

- Core VII World Classics
- Skill Based II English Language Skills for Employability
- In **Core VIII Literary Criticism**, apart from retaining the history and background of Criticism and the works of Plato, Aristotle and Longinus, Sydney, the course was revised to include texts by Dryden and Dr.Johnson and critical texts from the Romantic and the Victorian ages.
- In **Allied IV History of English Literature – II**, the Bloomsbury Group, Virginia Woolf, James Joyce, George Orwell, P.G.Wodehouse, William Golding, Joseph Conrad, Doris Lessing were added to the curriculum.
- In **Non Major II English for Competitive Exams** , One-Word Substitution. using the appropriate word. Idioms and Phrases. Nouns and Pronouns, Articles and Prepositions. Active and Passive Voice, Reported Speech (Direct and Indirect narration) and Reading Comprehension were added.

SEMESTER V

The following new courses were added to the curriculum :

- | | |
|---------------|-------------------------------------|
| Core X | History of Language and Linguistics |
| Core XI | Post - Colonial Literature. |
| Elective I .A | Regional Literature |
| Elective II | Women's Writing |

- In **Core IX Shakespeare** , all the Units were divided according to the dramatic genre to which Shakespeare’s plays belonged with detailed background and historical information on the Playwright and his works. “Macbeth” , Twelfth Night”, “Henry IV” were introduced in place of “King Lear”, “As You Like It” and “Julius Caesar” respectively. “The Tempest” and Shakespeare’s Sonnets were also added to the curriculum.
- In **Core XII Literary Criticism II**, the syllabus was completely revamped, retaining only T.S. Eliot’s “Tradition and the Individual Talent”. Critical essays by William Empson, Cleanth Brooks, Wimsatt and Beardsley, Victor Schklovsky, Mikhail Bakhtin, George Lukacz and Terry Eagleton were newly added.
- In **Elective I B Translation Studies**, apart from retaining the history of translation, and translation theories, A.K.Ramanujan’s essay on translation, Ashokamitran’s “Mole” – a work in translation were newly added. In Unit 5, a mandatory translation in practice was introduced wherein students have to translate 5 poems, a prose piece, a short story and an excerpt from a drama.
- In **Elective II B. Afro - American Literature**, except retaining three texts, “ A Raisin in the Sun”. Their Eyes were watching God”, and “Beloved”, the entire paper was changed and new texts and authors were introduced.
- In **Skill Based III Personality Development**, the entire paper was changed, introducing new concepts like Self- knowledge, Values and Ethics, General Etiquette, Positive thinking, Interpersonal Skills, Time and Stress Management, Decision Making, Communication and Leadership .

SEMESTER VI

The following new courses were added to the curriculum :

Core XIV Modern English Grammar

Core XVI European Drama

Core XV Contemporary Critical Theory

Elective III a. Cultural Studies

Elective III b. Media Studies

Elective IV a. Diasporic Literature

- In **Core XIII: ELT** (English Language Teaching), the historical background to ELT, various theories and methods practiced in ELT were retained, Neuro Linguistic Programming was introduced in Unit 3 and LSRW skills were added in Unit-IV
- In **Elective IV b. Children’s Literature** , the history of Children’s Literature and its evolution as a genre were introduced in Unit-1 , Fairy Tales and Graphic novels were added and new texts were introduced in the place of old ones, while only “Alice in Wonderland” and “Charlotte’s Web” were retained from the old syllabus.
- **Skill Based IV – a. Journalism**
The fundamentals of Journalism were introduced in Unit –1, Extensive units on Reporting, Magazine Journalism and the digitalization of the press were newly added to the curriculum.

M.A. ENGLISH

SEMESTER III

The following new courses were added to the curriculum:

Core XII Indian Aesthetics

Elective III a. Grammar and Usage

Elective III b. Creative Writing.

- **Core IX Shakespeare:** Shakespeare's career, Sources, historical context, Sonnets and the various critical perspectives were added in Unit 1.. 'Hamlet' and 'Henry IV' Part I were retained. The Merchant of Venice and 'As You Like It' were introduced in the place of 'The Tempest' and 'Twelfth Night' respectively. For each play prescribed for intensive study, key genre backgrounds, historical contexts, themes, motifs, characterisation, symbols and critical approaches were added.
- **Core X ELT (English Language Teaching):** The historical background to ELT, various theories and methods practiced in ELT were retained, whereas using Technology- Internet, Mobile, Smart Classroom, Web Sources, podcasting. e-content development, e-publishing, writing Blogs and websites were included along with teaching practice.
- **Core XI History of Language and Linguistics:** The history of English language and its descent, phonological and morphological units were retained, whereas language and Personality domains; language and context; forms of address, Code-switching, diglossia, language and ethnic group difference, Language and gender difference, linguistic change and social change were added to the syllabus.

SEMESTER IV

The following new courses were added to the curriculum:

Core XIII New Literatures in English

Core XV Modern European Literature

Elective IV a. Literature, Culture and Media

- In **Core XIV Contemporary Critical Theory**, new and seminal critical texts were introduced in all the five units covering different critical approaches while Jacques Derrida's "Structure, Sign and Play" alone was retained
- In **Elective IV b. UGC NET/SET Paper**, the latest additions to the UGC NET/SET English syllabus were incorporated.
- The syllabus revision has focused on retaining those elements in the curriculum that lend the programme its ethos, while trying to be inclusive of the recent developments in the discipline. It has tried to include courses that offer a theoretical foundation and those that impart practical and employability skills, achieving a fine balance between theory and praxis

DEPARTMENT OF TAMIL

B.A TAMIL

SEMESTER III

- **Course: Samaya PadalgalumSitrilakiyangalum(100% Changes):** In Unit-1 Thirunavukarasar "BaavanassaThirukurthogai" has been replaced with Thirugnanasambandar "kolaruThirupathigam" and Manikavasagar "kovilThirupathigam"

has been replaced with SundararThevaram “Thiruvottriyurpathigam”. In Unit -2 “PeriyazhvarThirumozhi” has been replaced with “ NammazhvarThiruvozhimozhi” and Andalalin “Thirupavai” has been replaced with “NaachiyarThirumozhi”. InUnit -3 “ Nanthikalampagam” has been replaced with Kumarakurubarar “Muthukumarasampillaitamil” and kalingathu barani “kaalikukoolikuriyathu” has been replaced with Pillai perumalayangarin “Thiruvarangakalambagam” . In Unit-4 sivapragasar has been replaced with BalapattadaiSokkanathapulavar and “Tamil viduThoothu” has replaced with Ottakuthar “kulathongansolanulla”. In Unit-5Veeramamunivarinkithariyammanmani “magavarulpadalam” has been replaced with Vethanaayagasathiriyar “GnnaaNondiNadagam”andMasthansaakibuPadalam “kuruvaruninillai” has been replaced with kunankudiyarin “Paaraparakanipadalgal”

SEMESTER IV

- **Course: KAPPIYANGAL (100% changes):** InUnit-1Sillapathigaram Madurai kadam “kadugankaathai, Vetuvavari, Purancherriyurthakaathai” has been replaced with Pugaarkadam “Kanaathiramuraitthakaathai” Madurai kadam “valakkaikaathai” . In Unit-2Manimegalai “Siraikottamarakottamaakiyakaathai” has been replaced with “Malarvanam pukka kaathai”andSullamani , has been replaced with Udayanakummarakaviyam . In Unit-3 Periyapuraanam “aanayaNaayanar Puranam” has been replaced with ‘ ThirunillakandaNaayanar Puranam”. In Unit-4kampaaramayanamBaalakadam “kadimanapadalam” has been replaced Yuthakadam “Vidaikoduthapadalam”. InUnit-5RatchaniyaYathireegam “Sirustipadalam” has been replaced with “Siluvaipaadu”andSeeraapuranam “NabigalPattam Petra varalaru” has been replaced with “MathiyaiAalaipithaPadalam”.

SEMESTER V

- **Sangailakiyam-Puram (100% change):** In Unit I –‘Pathitrupepaththu-Yezhampaththu’ has been replaced with ‘Mundrampepaththu’. In Unit II – ‘Purananooru 1 to 15 paadalgal’ has been replaced with ‘Purananooru 51 to 65 paadalgal’. In Unit III – ‘Thirumal -1, Sevvel – 1’ has been replaced with ‘Thirumal -3, Sevvel – 5’. In Unit IV – ‘Paththupaattu-Perumpanatrupadai’ has been replaced with ‘Sirupanatrupadai’. In Unit V – ‘ThirukkuralAthigaramIraimatchi to kaalamarithal’ has been replaced with ‘Natpu to Pagaithiram’.

SEMESTER VI

- **Sangailakiyam-Agam (100% change):** In Unit I – ‘Nattrinai 1 to 10 Paadalgal’ has been replaced with ‘Nattrinai 51 to 65 paadalgal’. In Unit II – ‘Kurunthogai 1 to 25 paadalgal’ has been replaced with ‘Kurunthogai 101 to 125 paadalgal’. In Unit III – ‘Kalithogai-Maruthakali’(66 to 71 paadalgal) has been replaced with ‘Kurinchikali’, (1 to 5 paadalgal) ‘Neithakali’(118 to 123 paadalgal) has been replaced with ‘Mullaikali’(1 to 5 paadalgal). In Unit IV – ‘Agananooru-Manimidaipavalam’(121to131 paadalgal) has been replaced with

‘Nithilakovai’(331 to340 paadalgal). In Unit V – ‘Paththupaattu-Kurinchipaattu’ has been replaced with ‘Pattinappaalai’.

DEPARTMENT OF HISTORY

B.A HISTORY

SEMESTER III

- **Core Paper – V – History of Tamil Nadu UPTO 1336 AD** has been changed as **“History of India from 1858 CE to 1947 CE”**-(100% change) in unit -I -Transformation of Power from East India Company to Crown,Gownor Generals rule in India has been included, in Unit -II Formation of Indian National Congress , spilt in the Congress, Birth of Muslim League has been included with Dyarchy, in Unit -III Gandhian Era and his struggle for freedom of India, In Unit – III Later Cholas has been replaced with Government of India Act of 1935, and impact of Second World War in India, Unit-V Birth of Indian Nation Army, Indian Independence Act of 1947 – Partition of India
- **Core Paper – VI -History of Tamil Nadu from 1336 AD TO1806 AD**has been replaced **“History of Tamil Nadu upto 1565 CE”**(100%change) in Unit -I is Geography,Source, Sangam Age, in Unit - II,Kalabar, Early Pandayas,Early Pallavas, Unit III-Vijayala line of Cholas,has been included in Unit IV II Pandyas, Muslim Invasion of South India has been introduced, in Unit V – Vijayanagar Empire has been given important.
- **Skilled Based Paper - An Introduction to Museology**(100%change) has been changed to **An Introduction to Museology and Archaeology**the new syllabus has been introduced to to have knowledge in Museums and its functions, pursue higher education and get employment opportunities in the field of Archaeology.
- **Non Major Paper-Women Studies**(90%change)in Unit -II Social Issues related to women and women originations is included, in Unit – III- Legal Rights of Women has been included, in Unit – IV Women and Media, in Unit – V Women and challenges of Empowerment has been newly introduced.

SEMESTER IV

- **Core Paper VII - History of Tamil Nadu from 1806 AD to 2005 AD** (100%change)is replaced to **History of Tamil Nadu from 1565 CE to 1947 CE** -UNI - I is included Tamil Nadu under Vijayanagar rule and Nayaks of Madurai, Gingee, Vellore in UNIT- II Nawabs of Arcot and The coming of the Europeans is introduced UNIT- II Virapandiya Katta Bomman, Maruthu Brothers and First war of Independence Vellore has been introduced in Unit IV- Tamil Nadu under the British Rule and Indian National Congress is included in Unit – V - Freedom Movement In Tamil Nadu is included.
- **Core Paper VIII – India and her Neighbours from 1900 C.E. TO 2000 C.E.** has been changed to **India and her Neighbours from 1900 C.E. TO 2005 C.E.**(10% change) In Unit – I Indo Bhutan Treaty (1949) - Economic Relations - Trade and Investment is included in Unit II -India and Afghanistan relations ,North West Frontier Province, Taliban Government, Economic Relations is introduced, in Unit III-Treaty of Friendship and Trade Agreement

(1972), Major Issues, Refugees, Farakka Issue, Dispute over the New Moore Island has been included.

- **Non Major- Women Development in Tamil Nadu from 1900 AD to 2000 AD** is replaced to **Competitive Examination** the paper will be help full to student to aware of the types of Competitive Examination Central and State Government.

To make the students aware about the Eligibility Criteria, Syllabus and Exam pattern for all the Competitive Examination.

SEMESTER – V

- **Core Paper – IX - History of Europe from 1789 AD to 1919 AD** is replaced to - **History of Europe from 1789 CE to 1914 CE** (10% change) in Unit – V- in this unit has been give important to the political changes before I World War.
- **Core Paper – X – History of U S A from 1861 AD to 1932 AD** is replaced to **History of Ancient World** in Unit – I- Indus Valley Civilization, in Unit –II Mesopotamian Civilization in Unit - III- Egyptian Civilization & Chinese Civilization, in Unit -IV - Persian Civilization & Greek Civilization, in Unit – V - the Roman Civilization are newly introduced.
- **Core Paper-XI – History of Russia from Early times to 2005 AD** is replaced to **History of Far East from 1990 CE to 2005 CE** (100% change) in Unit – I Advent of Europeans in China, in Unit II - Rise of Militarism in Japan in Unit – III -the rise of Dr. Sun Yat Sen, Mao Tse Tung, in Unit – IV - Second Sino Japanese War of 1937, Japan and the Second World War, in Unit – V - China after Mao Tse Tung has been introduced to enable the students to understand the contemporary history of China and Japan.
- **Elective – I- Dravidian Movement in Tamil Nadu** is replaced to **Constitutional History of India from 1773 CE to 1950 CE** (100% change) in Unit I -End of the Colonial Rule of East India Company, in Unit II - Attempt to establish parliamentary system in India, in Unit - III Establishment of Responsible Government, in Unit – IV - Dominion Status and Dawn of Independence in Unit- V- Framing of Indian Constitution and its functions has been included to help the student to aware the history and functions of Indian Constitution.
- **Elective – II - Archaeology** has been replaced to **Principles of Public Administration** (100%) in Unit -I Evolution of Indian Administration, in Unit – II Union Government and Administration, in Unit III - State Government and Administration, in Unit – IV - District Administration and Local Government ,in Unit V – Civil Services are introduced to enable the students to know Central, State , and District administration and its functions.
- **Skill Based - Intellectuals of Tamil Nadu** is changed to **History Vellore (100% change)** to develop knowledge of evolution and Growth of Vellore and its historical importance, in Unit - I Geography, in Unit – II Pallavas, Cholas, Rashtrakuta, Vijayanagar rule in Vellore has been introduced, in Unit – III - European Settlements, First War of Independence is introduced in Unit V -Historical important places, Tourist important places are introduced to create awareness of knowing Local History of the city of Vellore and to preserve the Historical sites for their future generation.

SEMESTER VI

- **Core Paper – XII – History of Europe from 1919 AD to 2005 AD** has been changed to **History of Europe from 1914 A D to 1945 AD** (70% change) changes has been introduced to understand the condition of Europe between two World War, political condition of Europe, Dictators of Germany and Italy, Imperialistic Attitude and working of Communist Politics in Russia has been included.
- **Core Pare – XIII – History of U S A from 1932 AD to 2005 AD** has been replaced to **History of World from 1945 CE to 1991 CE** (100% change) in Unit - I International Origination, in Unit – II- Cold War, in Unit – III Super Power Conflict, in Unit – IV - Disarmament, in Unit – V - Emergence of Third World Countries are introduced to know the student the formation of various originations and its functions.
- **Core Pare – XIV – Constitutional Development since 1947 AD** is replaced to **History of US A from 1932 CE to 2005 CE** (100% change) the Policies of the New Deal, USA become World Power, USA and its Friendly Relations with other Countries, USA's role in Disarmament have been included, the changes will be helpful to the students to know how America became world power.
- **Elective – IV – Paper – II – History of Freedom Movement in Tamil Nadu** (100% change) is replaced to **Environmental Studies** in Unit – I Nature , Scope, in Unit -II- Conservation through Ages, in Unit – III Environmental protections and current issues, in Unit IV- Environment and Human Health, in Unit - V Environmental Ethics have been incorporated to create Moral values among students, and make them to be aware of ethical issues towards nature.
- **Skill based Paper - IV – Fundamentals of Computer for Humanities** is replaced to **Intellectuals of Tamil Nadu** (100% change) It is more important to know the life history and achievements of our Tamil Nadu intellectuals so that it will inspire them to achieve in life.

M.A HISTORY

SEMESTER III

- **MAIN XII International Relations since 1919 A.D** has been replaced with **General studies for competitive Examinations.** (100% Change). This course has been introduced to make the students to acquire Knowledge of competitive Exam. General knowledge is something that really help us to grow both on personal as well as academic level.
- **Elective III Indian Administration has been replaced with Tourism** (100% Change). This course introduced about Growth and boost in Economic activities. It also generates more employments revenues and play a significant development. Tourism Industry goes beyond attractive destinations, to being an important economic growth contributor.
- **Optional paper self study Principles of Archaeology has been introduced has a new paper for students as an online course.** The process of self – Study is based on quality rather than quantity. Learning without any constraints. Creating a sense of Responsibility, and plan their

schedule flexibility, Understand the Different types of Excavations, Archaeological ethics refers the moral issues raised through the study of the material past.

SEMESTER IV

- **Elective IV Basics of information technology has been replaced with History of USA 1900 C.E to 2000 C.E (100% Change).** This course informs students about progressive Era, Washington Conference, Role of Truman, Foreign Policy and American under President.
- **Project with Viva Voce has introduce the purpose of the viva examination** is to demonstrate that the thesis is your own work confirm that you understand what you have written and can defend it verbally investigate your awareness of where your original work sits in relation to the wider research field. The Viva is usually the internal examiner, although it can be an independent person.`

DEPARTMENT OF COMMERCE

B.COM

SEMESTER III

- **Corporate Accounting** (90% change)-In Unit I – Issues of Shares, bonus shares and right issue of shares has been included, in Unit II – ‘Issue of Debenture’ has been replaced with ‘Redemption of Preference Shares’, in Unit III – Profits prior to incorporation has been replaced with Final Accounts of Companies, Unit –IV – ‘Amalgamation, Absorption and Internal Reconstruction’ has been replaced with ‘Liquidation of Companies’, Unit – V – ‘Liquidation accounting’ has been replaced with ‘Bank Accounts’
- **Course “Business Laws”** has been changed to “Legal Aspects of Business” (100 %change)**Intellectual Property Right (IPR) – is introduced in the Unit -V to foster innovation and to give awareness about business property rights, which will stimulate innovation among students and contribute to the technological progress.
- **Modern Banking** (90% change)-In Unit II – “State Bank of India” has been replaced with ‘Banker and Customer Relationship”, in Unit III – ‘Central Banking’ has been replace with ‘Bank Accounts’, in Unit IV – ‘Money Market’ is replaced with ‘Negotiable Instruments’, in Unit V – ‘Development Banks’ is replaced with ‘E- Banking’
- In Course ‘E-Business and its Application’ is replaced with ‘**Business Ethics**’ (100% change)-This skill based course has been introduced with the view to assist the students to identify the internal and external ethics of business, to gain knowledge of global economy and learn the ethics related to corporate governance.
- Course ‘E-Commerce-I’ has been replaced with ‘**Advertising**’ (100% Change)-This Non-Major Course ‘Advertising’ has been introduced to get extensive knowledge of advertising media and to understand the recent trends in online advertisement.

SEMESTER IV

- **Advanced Corporate Accounting** (75% change)-In Unit II – ‘Holding Companies’ is replaced with ‘Amalgamation and Absorption’, in Unit III – ‘Bank Accounts’ has been

replaced with 'Alteration of Share Capital and Internal Reconstruction', in Unit IV – 'Life Insurance Company Accounts' has been replaced with 'Holding Company Accounts'.

- **Company Law** (60% Change)-In Unit III – 'Prospectus' has been replaced with 'Company Management – I', in Unit IV – 'Members of a Company' has been replaced with 'Company Management – II', in Unit V – 'Directors of a Company' has been replaced with 'Winding Up'.
- Course 'Banking Law and Practice' has been replaced with '**Business Management**'. (100% Change).** This course has been introduced to make the students to acquire knowledge of conceptual framework of business management; to give them exposure about the various concept of managing business.
- **Business Statistics and Operational Research – II** (75% change)-Unit I – Types, properties, uses and methods of correlation and regression has been included, in Unit II – Characteristics, uses, types of weighted and unweighted index number has been included in the syllabus , inUnit IV- 'Probability' has been replaced with 'Interpolation', in Unit V – Formation of transportation problem and linear programming problem has been included.
- Course 'E-Banking' has been replaced with '**Consumerism**' (100% Change). ** This skill based course 'Consumerism' has been introduced through theory and practical sessions to familiarize the students with the fundamental rights of a consumer, to give awareness about the concepts about complaints and grievances redressal mechanism.
- Course 'E-Commerce-II' has been replaced with '**Salesmanship**' (100% Change) This Course 'Salesmanship' has been introduced in the syllabus with a view to empower the students with salesman qualities, to understand the duties and responsibilities of a salesman and put the same into practical use.

SEMESTER V

- Course **Cost accounting – I** the units cover the Basics of Cost accounting which are more relevant to the present scenario. Units include introduction to Cost accounting, Materials, Labour , Overheads and operating costing. Nearly 75% of the syllabus is updated.
- Course **Entrepreneurial Development**- the units cover the important concepts of Entrepreneurial Development, the units cover the major topics like Project development, Project Finance. Incentives and subsidies. The present Entrepreneurial Development schemes are included in the syllabus. Nearly 60% of the syllabus is updated.
- Course **Management Accounting** – Nearly, 60% of the syllabus has been updated to match both the higher studies and Employment opportunities. Important topics are included in the units namely, Ratio analysis, Cash flow statement, Budgetary control and Capital budgeting.
- Course **Income Tax Law And Practice-I**- The syllabus covers important topics which are suitable to the present scenario. The syllabus is updated as per the New amendments made every year.
- Course **Modern Marketing**- The syllabus is updated 80% to suit the knowledge required to apt higher education. The units cover the recent trends in higher education like E- marketing and Service marketing.

- Course **Human Resource Management-** The syllabus is designed to cover the most important topics to suit the employable and higher education scenario. The syllabus is updated 60% new topics like performance appraisal has been introduced.

SEMESTER VI

- Course **Cost Accounting-II-** The syllabus is updated to cover the required topics to suit higher education. Nearly 75% of the syllabus content was revamped. The units cover in detail Marginal Costing and included new topic Cost Audit.
- Course **Financial management-** The syllabus is updated up to 50%. Major topics are included to provide wide knowledge about the capital structure , Dividend and working capital. This syllabus provides the basics for higher education.
- Course **Practical Auditing.** The syllabus has included the major topics related to Practical auditing. The updating made up to 50%. New topic e- Audit introduced to suit the present scenario.
- Course **Income Tax Law and practice-II-** The syllabus covers important topics which are suitable to the present scenario. The syllabus is updated as per the New amendments made every year.
- Course **Functional Tally-** A new elective is introduced in the curriculum to impart skill based training to students to face the employability scenario.
- Course **GST-** To suit the present scenario Goods and service tax has been introduced to the students as skill based subject to equip them in the present era. It will provide the basis for the higher education also.

M.COM

The PG syllabus has been updated keeping in view the NET/ SET syllabus as students aspire for teaching profession.

- **GST- 100%** New course introduced to impart detailed knowledge about GST so that students can start their own consultancies.
- **Organizational Behaviour- 50%** Updated to suit the present Business Scenario.
- **Advanced cost accounting-70%** Updated by Introducing topics like, Operating cost, Marginal cost, Standard costing units which are very important for NET/ SET exams.
- **Research methodology- 50%** updated to help students to prepare Final project and also to encourage them to Pursue Research work.
- **Business environment-100%-** New Course introduced to help the students to prepare for NET/SET exams.
- **Income tax and tax planning- 100%**-New Course has been introduced. this paper is designed to understand the concept of tax planning so that it provides a good platform Income tax consultancies. And it is also required for NET/SET exams.
- **Advanced management accounting-100%**-New course introduced which matches with the CA programme and gives the students practical understanding about the management accounting concepts.

- **Security analysis and portfolio management-100%**-New course introduced to impart updated knowledge about the capital market scenario. It also provides the bases for capital market trading. It helps to create awareness about the profitable investments.
- **Financial markets- 100%**- New course was introduced to make the students to invest in different investment markets. It also provides avenues to startup consultancies to help small investors.

DEPARTMENT OF MATHEMATICS

B.SC. MATHEMATICS

SEMESTER III

- **Differential Equations and Laplace Transforms (40%)** Inclusion of two new units Unit 4-Laplace Transforms, inverse Laplace Transform, Applications of Laplace Transforms. Unit 5-Partial Differential Equations Complete Integral - Particular Integral – Singular Integral, Equations, Solvable by direct Integration solving equations of 4 types and Lagrange's Equations
- **Fourier Analysis (60%)**: First Three units Laplace and Inverse Laplace has been
 - replaced with Fourier series-Unit I :Fourier Series Dirichlet's conditions - Euler's formulae - Functions having Discontinuity - Fourier series in the interval $(0,2\pi)$ and $(-\pi,\pi)$. Unit II :Fourier Series:Fourier Expansions of odd and even functions in the interval $(-\pi,\pi)$ - Change of interval - Fourier series in the interval $(0,2l)$ and $(-l,l)$.
 - Unit III :Fourier Series: Half- range Sine and Cosine series - Typical wave forms - Parseval's identity.
- **Mathematics for Competitive Examination(100%)** is Introduced as a New Paper to Enhance Students Mathematical Problem-solving Skills and to attend Competitive Exams successfully and develops reasoning and increase problem solving skills in mathematics
- **Functional Mathematics(60%)** Topics included such as Problems on numbers, Time and Work ,Probability and True Discount to meet the needs of the students to attend TNPSC Exams
- **Allied Mathematics-I (20%)**– Unit 1-Partial fractions and series is replaced with the new unit Integral calculus topics such as Bernoulli's formula for integration by parts - Reduction formulae $\sin^n x$, $\cos^n x$, $\tan^n x$, $\operatorname{cosec}^n x$, $\sec^n x$, $\cot^n x$.- Properties of definite integral and simple problems

SEMESTER IV

- **Business Statistics with R Programming (100%)** is Introduced as a New Paper to Enhance the skill on application of Statistical concepts using R Programming
- **Allied Mathematics-II -(20%)** New Unit Fourier series replaced with Integral calculus. Since the Applications of Fourier series is appreciated in research, we introduced topics such as Dirichlet's conditions, Euler's Formula, Functions having discontinuities Fourier series in the interval $(0,2\pi)$ Fourier expansions of odd and even functions.

SEMESTER V

- **Real Analysis-I** Two New topics open sets and closed sets included in the first unit

- **Functional Mathematics (60%)** Topics included such as Problems on numbers, Time and Work ,Probability and True Discount to meet the needs of the students to attend TNPSC Exams

SEMESTER VI

- **Computer Practical in C Language-** Three new Practical topics included such as Multiplication of Matrix, Arithmetic Mean for discrete series and Median for discrete series
- **Mathematical Modelling with Spread Sheet(100%)** is Introduced as a New Paper to Enhance the skill on Mathematical Modelling concepts with Spread sheet which develops inductive reasoning and increase skills in discerning unique mathematical relationships

M.Sc. MATHEMATICS

- **Calculus of Variations(100%)** -New subject is introduced to meet the needs of the students for CSIR exams
- **Self-study Paper -MATLAB (100%)** -Introduced Mat lab software paper to improve students software Applications skills

DEPARTMENT OF CHEMISTRY

B.Sc. CHEMISTRY

SEMESTER III

- **General Chemistry-II (25 % change):** In Unit-I, 1.2- Allotropic forms of carbon is include In unit-III, 3.2- Nitroalkanes is included.In Unit-V, 5.2-Thermochemistry is introduced.
- **SBS-Role of Chemistry in Everyday Life (40 % change):** In Unit –II, 2.2 Lipids included.In Unit III, 3.2- Fuels is included.In Unit-II,Biochemistry and Hormones is replace by Cosmetics and Toiletries.
- **NME-Medicinal Chemistry (25 % change):**In Unit-III, vitamins is included, In Unit-I Indian Medicinal Plants and Unit-V Air and Water-borne diseases, the syllabus is enhanced.

SEMESTER IV

- **General Chemistry-II (10 % change):**In Unit-II, 2.2-Noble gases is included.
- **SBS-Chemistry in Everyday Life (40 % change):**In Unit-V, Milk is replaced by Fuel Gase In Unit-IV, Explosives and Sugar Industry is Included.

SEMESTER V

- **Inorganic Chemistry-I (20 % change):**Unit-III Solid State Chemistry is Introduced.
- **Organic Chemistry-I (10 % change):**Unit-I Baeyer-Villiger reaction and Dakin reaction are included. In Unit-II, 2.1 - Flying wedge and Sawhorse representation of molecules are included.In Unit-V, 5.2- Mechanisms and Applications of H_2/Ni and $H_2/Pd/C$ are included.
- **Physical Chemistry (25 % change):**Unit-II Solid State is replaced by Surface Chemistry. In Unit-IV, Lindemann's theory of unimolecular reactions is included.
- **Analytical Chemistry (10 % change):**The whole syllabus is enhanced by applications.
- **Green Chemistry is introduced as elective paper for Analytical Chemistry (100 % Change).**

- **Pharmaceutical Chemistry (10 % change):**The whole syllabus is enhanced by applications.
- **Textile Chemistry is introduced as elective paper for Pharmaceutical Chemistry(100 % Change).**
- **SBS Polymer Chemistry (10 % change):**The whole syllabus is enhanced by applications.

SEMESTER VI

- Nuclear Chemistry and Inorganic Polymers is replaced by **Inorganic Chemistry-II**. Inorganic Polymers unit-IV and V are replaced by unit-IV Organometallic Chemistry and Unit V Bioinorganic Chemistry (40 % Change).
- **Chemistry of Natural Products(10 % Change):** In Unit-V, Antibiotics- penicillin and cholesterol are replaced by limonene terpenoid and quinine alkaloid.
- **Electrochemistry (10 % Change):** In unit 5.2- Lithium metal battery, lithium-ion battery, lithium-polymer battery and solar cells are included.
- **Nanochemistry is introduced as elective paper for Electrochemistry (100 % Change).**
- **Spectroscopy - The syllabus is enhanced (10 % Change).** **Food Chemistry** is included as elective paper for **Spectroscopy(100 % Change).**
- **SBS-Applied Chemistry** is replaced by SBS-Industrial Chemistry (100 % Change).
In general the syllabus is enhanced so that the students get benefited in competitive examinations.

M.Sc. CHEMISTRY

SEMESTER III

- **Nuclear chemistry and organometallic chemistry** course was introduced (100% change).
- **“Spectroscopy” course title was modified as “Spectroscopy and its applications” (80% change):**In Unit I – instead of microwave spectroscopy, applications of ORD studies, Octant rule and axial haloketone rule, Scott rules for aromatic ketones, introducing IR spectra to predict stretching frequencies in various inorganic compounds was included. In Unit II – Raman and ^1H NMR spectra was replaced as Nuclear Magnetic resonance and their applications. Unit-III – NMR spectra ^{13}C ^{31}P and ^{19}F and NQR spectra was replaced with ^{13}C NMR, ^{19}F NMR and ^{31}P techniques. Unit-IV – ‘Applications of ESR based on number of signal multiplicity, anisotropy and bio-inorganic molecules included and PES was replaced with Mossbauer spectroscopy. Unit-V – Mass and Mossbauer spectroscopy was replaced as Mass spectroscopy with the inclusion of aliphatic/aromatic nitro and amine compounds and heterocyclic compounds.
- In Course ‘Electrochemistry and quantum chemistry’ has been replaced with **“Thermodynamics and Group Theory” (100% change)**
- In Elective Course ‘Polymer chemistry’ was replaced with optional electives courses **“(a) Material chemistry; (b) Basic Pharmacology; (c) Industrial Chemistry”** was introduced (100% change).
- **Optional self study paper as “Online course” was introduced with credit 2.**

SEMESTER IV

- **Natural products chemistry course was replaced with “Photochemistry, heterocycles and natural products”** (100% change)
- In Elective Course along with ‘Scientific research methodology’ other optional electives courses **(b) Supramolecular chemistry; (c) Nanoscience and technology** (100% change).
- **Scientific Research Methodology** (70% change) In Unit I – introduction was replaced as **Meaning of Research, Literature and Search Engines**. Unit V – Thesis and Assignment writing was replaced with **Scientific Writing**.
- Compulsory course ‘**Comprehensive viva-voce**’ was introduced.

DEPARTMENT OF ZOOLOGY

B.Sc.ZOOLOGY

SEMESTER III

- In core paper, **Cell Biology**-50% changes : In Unit-I Introductory cytology: Prokaryotic and Eukaryotic cells, Cytological techniques – fixation and sectioning. In Unit-II Cell organelles: Plasma membrane – cell junctions and models of plasma membrane. In Unit-III Nucleus and cell cycle: Nucleolus-Ultrastructure and functions, Giant chromosomes-polytene and Lampbrush chromosomes, Cell cycle and cell division- interphase and its regulation. In Unit-IV Nucleic components:Nucleic acids – Structure and functions of DNA and RNA, Replication of DNA, Types of RNA (mRNA, tRNA, rRNA), Properties of genetic code-mechanism of protein synthesis-transcription, translation and post-transcriptional modifications. In Unit-V Cancer Biology : Introduction to cancer, Neoplasm, Facts about cancer, Characteristic features of cancer, types of cancer-mutational nature of cancer, environmental causes of cancer, oncogenes, carcinogenic agents, biology of cancer exclusively in women- breast cancer, ovarian and uterus cancer were added.
- In skill based paper-**Public health and hygiene** 40% added and replaced. In Unit-I: Introduction and scope :Public health-hygiene-food hygiene- personal hygiene, Classification of food- Macronutrients and micronutrients. In Unit-II Environment and health hazards : Pollution-Associated health hazards due to air pollution-water pollution – soil pollution and noise pollution. In Unit-III Communicable diseases and control measures : Endemic-epidemic-pandemic, Air borne diseases-Covid 19, Water borne disease- cholera-typhoid , vector borne disease-Malaria . In Unit-IV Non Communicable diseases and Preventive measures: Renal failure. In Unit-V Practical- Hands on training/Service with voluntary organizations: Discussion on health education in India. Designing of first aid kit, most probable number (MPN) method for analyzing water quality.

SEMESTER IV

- In core paper **Genetics** ,50% added and replaced. In Unit-II: Linkage and Crossing over - Importance of Drosophila in genetics-culture methods, Sex identification, Mutant forms of Drosophila In Unit-IV: Mutations- Sickle cell anemia, Inborn errors of metabolism Phenylketonuria- Alkaptonuria – Albinism, Pedigree Analysis, Eugenics, Euthenics, Genetic Counselling, Chromosomal Abberations- Euploidy, Aneuploidy, Monosomy, Trisomy, Gene

Mutations – Physical and chemical mutagens – DNA repair. In Unit-V: Modern Genetics- Split gene-Promotor- Repetitive DNA- Transposons, Bacterial genome- transformation-conjugation- F Factor- Sexduction- Transduction (Generalised and Specialised)

- In skill based paper **-Biofertilizer production**, 25% added and replaced. In Unit-I: Introduction to biofertilizers production. Methods for enhancing soil fertility. In Unit-III : Isolation and Identification of Nitrifying bacteria : Nitrogen cycle. In Unit- V: Practical : Azolla cultivation in small scale/Comparative study of physical parameters in plant growth using conventional chemical fertilizer and organic fertilizer/ Visit to organic farm.
- In **Practical-II Cell Biology and Genetics** 10% added and replaced. Human Karyotyping-normal and Klinefelter, Down and Turner's Syndrome

SEMESTER V

- Core paper Biostatistics and Bioinformatics is replaced (100% added) with Biotechnology:
- In Unit I Recombinant DNA Technology Scope of Biotechnology, Restriction endonuclease sequence recognition. DNA Ligase- Linkers and Adaptors. Identification & isolation of gene - Cloning vectors and recombination. Screening of recombinant DNA. Application of recombinant DNA technology. Commercial production of Insulin. Human Genome Project. In Unit II Molecular Techniques Methods to isolation of DNA – PCR types, Principle & applications. Electrophoresis – types and Principle. Blotting – types & applications. DNA finger printing and its applications – RAPD – FISH- RFLP. DNA probes & diagnosis – Super bugs (Oil pollution) In Unit III Animal Tissue Culture .Applications – Primary culture. Steps involved in mammalian cell culture- He la&WI38 cell lines –Maintenance of cell lines – Techniques and Application of organ culture. Animal cloning – Dolly. In Unit IV Applications Genetically modified Animals - Single cell Protein from microbes – Biofuels – Solid waste management – Liquid Waste Management – Biogas production - Biopesticides. Transgenic Animals (Fish, Mice, Sheep & Cow) & its significance – Mushroom Culture. In Unit V Enzyme Biotechnology Microbial production & application of enzymes – Ribozymes- Artificial enzymes - Immobilization of enzymes methods and its application. Biosensors - Cryobiology – Methods of cryo-preservation.
- In Core paper **Developmental Biology** 50% added and replaced .In Unit -II Blastulation& Gastrulation -Development of Nervous system in chick & Foetal membranes in chick. Development of Pro, Meso & Metanephric kidneys. In Unit IV Applied Embryology Organizer concept –Structure – mechanism of induction and competence. Nuclear transplantation - Teratogenesis – Regeneration: types - events and factors. Embryonic stem cells & significance. Methods to culture embryo. In Unit V Embryological Techniques Oestrous cycle, Pregnancy – trimesters – development. *Erythroblastosis foetalis*-Twins – types. Amniocentesis.
- In Core paper **Animal Physiology** 50% added and replaced .In Unit I Nutrition & Respiration Hormonal control of digestion. Regulation of respiration- bronchitis- asthma, Physiological effects of smoking. In Unit II Circulation & Excretion Mechanism of clotting.

Structure and working mechanism of heart- pace maker, Dialysis. In Unit III Muscle & Nerve Physiology Impulse propagation, Reflex action, Nerve disorders – epilepsy, Alzheimer’s disease, Parkinson’s disease. In Unit IV Sense Organs Eye defects – myopia, hyperopia, presbyopia, astigmatism, cataract, Hearing impairments – deafness, labyrinthine disease - Olfactory, gustatory and tactile sense organs In Unit V Endocrinology And Reproductive Physiology Feed-back mechanism,. Puberty, adolescence, pregnancy, parturition, lactation and birth control.

- In Elective paper-I **Biochemistry and Biostatistics** 50% added and replaced. In Unit 1 Foundations Of Biochemistry Henderson Hasselbalch equation. Maintenance of blood pH- respiratory and metabolic acidosis & alkalosis. In Unit -II Biomolecules And Metabolism Glycogenesis, Glycolysis and Krebs cycle, Electron transport chain and formation of ATP. Glycogenolysis, Gluconeogenesis and HMP shunt. Deamination & Transamination, Beta oxidation of fats. In Unit III Bioenergetics And Biochemical Techniques Spectrophotometry (UV-Vis Spectroscopy). In Unit-V Probability And Correlation, Regression Rules for Calculating Probabilities, . Correlation and Regression: Karl Pearson correlation, Scatter Plots Regression analysis and least square assumption.
- In Elective – II **Human Endocrinology** 40% added and replaced. In Unit – I Scope and Introduction of Endocrinology Abnormalities of Pituitary Secretions-Dwarfism, Gigantism, Acromegaly, Diabetes insipidus. Pineal gland and its functions. In Unit – IV Adrenal Gland Biological Action of Adrenaline and Nor-adrenaline – Mechanism of Fight, Fright and Flight. In Unit – V Reproductive Gonads Abnormality of Testosterone, Role of Hormones in Female sexual Cycle-Puberty and Menopause. Abnormalities of Oestrogen and Progesterone.
- In skill based paper **Aquarium Fish Keeping** 25% added and replaced. In Unit I Basics Of Aquaculture- Present global and national scenario, Introduction to aquarium and aquarium accessories. In Unit III Fish Feed, Types of feed, Culture of fish feed-infusoria In Unit -V Practicals-Training/Identification of common aquarium fishes, Preparation of fish feed/ Fabrication of aquarium tank, setting up and maintenance of aquarium accessories and equipment/Visit to fish farm.

SEMESTER VI

- In Core paper **Environmental Biology** 50% added and replaced. In Unit II Nutrient Cycles & Interactions sedimentary cycles. Carbon, Sulphur. Food chain & Food web, Pyramids & Trophic levels -Energy flow In Unit III Habitat Ecology. Ecosystem: characteristic features, types and faunal adaptations in Freshwater (Lotic & lentic), Marine- (sandy shore-rocky shore- benthic), estuarine, mangrove and forest eco system. Significance & Conservation of wetlands. In Unit IV Pollution. Thermal & Pesticide pollution. Nuclear Hazards – Management of Solid waste, Plastic waste, Medical waste and e-waste. In Unit V Conservation Biodiversity – definition, loss & cause. IUCN, CITES & Brief out lines of Indian laws of conservation. Biodiversity hot spots in India.

- In Core paper **Immunology** 20% added and replaced. In Unit – III Immunoglobulins Epitopes, Paratopes, Haptens & Adjuvants. In Unit -V Transplantation Types of transplantations- Basic concepts of Major Histo Compatibility complex (MHC)-Tissue antigens -HLA and Blood group antigens. Prophylaxis and Hypersensitivity reactions and Types of Hypersensitivity
- In Core paper **Evolution** 50% added and replaced. In Unit I Evidences Of Evolution Origin of life: Abiogenesis, Biogenesis, Cosmic theory, Biochemical origin of life, Urey-Miller experiment Paleontological evidences. In Unit II Theories Of Organic Evolution Natural selection -Convergent & Divergent evolution In Unit III: Adaptation & Isolation. Non adaptive traits – Neotony & Significance. Hardy Weinberg Equilibrium - Genetic drift. In Unit IV Wallace line, Discontinuous distribution - Continental Drift. Geological time scale (Up to periods for Paleozoic & Mesozoic era; up to epoch for Cenozoic era) .In Unit V :Evolution Of Higher Forms. Evolutionary significance of Dipnoi – Origin of Amphibia – Golden age of Reptiles - Major types of Dinosaurs and reason for extinction, Affinities of Archaeopteryx.
- In Elective – III **Medical Laboratory Technology** 25% added and replaced. In Unit I Scope of Medical Lab Techniques Awareness and responsibilities of code of ethics for medical lab technicians. In Unit II Hematology Estimation of Haemoglobin In Unit IV-non infectious disorders Causes, types, symptoms, complications diagnosis and prevention of Diabetes (Type I and Type II), Hypertension (Primary and secondary), Coronary heart diseases
- In Elective -IV **Microbiology** 40% added and replaced. In Unit I Introductory Microbiology Systematic position of Virus – classification - Structure of bacteriophage. Viroids and Prions. Ultra structure of *E. coli*. General structure of fungi. In Unit II Bacterial Culture Factors influencing bacterial growth. Maintenance & Characteristics of colonies. Bio-fermenters and its role in mass culture. In Unit III Applied Microbiology Control of Microbes. Culture of Yeast & economic importance. Microbial Nitrogen fixation. Basic concepts of Probiotics. In Unit IV Environmental And Agricultural Microbiology. Waste as a resource: Soil Microorganisms- Bioremediation-Biosurfactant-Microbial leaching.
- In skill based paper **Sericulture** 25% added and replaced. In Unit -I Introduction To Sericulture Scope and Economic importance of sericulture. Harvesting of Mulberry leaves. In Unit - III Biology Of Silkworm & Rearing Techniques. Life cycle of Silkworm-silkworm egg production, embryonic growth. In Unit IV Reeling Techniques Mounting and Harvesting of cocoons. In Unit -V Practical Hands on training/Field visit to a Sericulture farm/ Cultivation of Mulberry. Motivating the Prospects of Sericulture as self-employment venture.

In **Practical – III Animal Physiology, Development Biology & Biotechnology** 20% added and replaced-**Biotechnology**

1. Study of Models or Specimen.

- a) Escherichia Coli b) Bacteriophage c) Plasmid
 2. Demonstration of P.C.R. Technique, Southern Blot, Electrophoresis-.
 3. Visit to Biotechnology Lab and Report.

In **Practical-IV Environmental Biology, Immunology and Microbiology** 25% added and replaced-**Microbiology**

Sterilization technique- Laminar Air Flow, Incubator and Autoclave.

Demonstration of Media preparation.

Culturing techniques- Spread plate, Streak plate.

Demonstration of Colony Forming Unit (CFU)

Diffusion Techniques- Well Diffusion Method, Disc Diffusion Method. Zone of Inhibition

M.Sc., ZOOLOGY

The syllabus has been updated based on TANSHE /CSIR/SET Syllabus as students aspire for Teaching and research.

SEMESTER III

- In **Comparative animal physiology** 60% added and replaced. Unit-I: Digestion and hormonal regulation –Minerals. Stress Physiology - Basic concept of environmental stress and strain; concept of elastic and plastic strain; stress resistance, stress avoidance and stress tolerance. Physiological response to oxygen deficient stress - Physiological response to body exercise - Meditation, Yoga and their effects. Unit-II-. Comparative physiology of Respiration in relation to different habitats– Structures – Respiratory gases. Unit-III-Osmoregulation in Freshwater and Marine aquatic organisms and terrestrial environments. Excretory physiology –Comparative study of excretory products in relation to different habitats, kidney-urine formation, concentration, elimination, micturition, Role of Hormones in regulation of water balance. Unit-IV- Gross anatomy of brain and spinal cord., neuro-degenerative diseases. Receptor Mechanism: Chemoreceptor , Phono receptor and Photo receptor and tango receptor . Unit-V -Endocrine Regulation Endocrine glands – Feedback regulation – Hypothalamus-Pituitary – gonadal axis – Role of reproductive hormones – gamete formation; fertilization; embryonic development; parturition; lactation; neuroendocrine regulation -Pheromones in insects.
- In **Developmental Biology** 50% added and replaced. Unit-I: Basic Concepts of Development Potency, commitment, specification, induction, competence, determination and differentiation; morphogenetic gradients; cell fate and cell lineages; genomic equivalence and the cytoplasmic determinants; imprinting; mutants and transgenics in analysis of development Unit-II: Production of gametes, cell surface molecules in sperm-egg recognition in animals; zygote formation, cleavage, blastula formation, embryonic fields, gastrulation and formation of germ layers in animals; embryogenesis, establishment of symmetry. Unit-III: Cell aggregation and differentiation in *Dictyostelium*; axes and pattern

formation in *Drosophila*, Amphibia and Chick; organogenesis – vulva formation in *Caenorhabditis elegans*, eye lens induction, limb development and regeneration in vertebrates; differentiation of neurons, post embryonic development, larval formation, metamorphosis; environmental regulation of normal development; sex determination. Unit-IV: Occurrence and significance – Regeneration: Regenerative capacity in the Animal Kingdom – Factors influencing regeneration – Stimulation and Suppression – Polarity and Gradients – Development of immune system in vertebrates. Unit-V: Programmed cell death, aging and senescence - Asexual reproduction - Assisted Reproductive Technology (ART) – Male infertility – Sperm abnormalities Artificial Insemination– Female infertility- Superovulation – IVF, ICSI, GIFT – Screening of genetic disorders.

- In **Microbiology and Immunology** 50% added and replaced. Unit-I- Control of Microbes. Basic concepts of Probiotics. Bacterial (Cholera, Typhoid), Viral (Rabies, HIV) & Fungal (Candidiasis, Dandruff) diseases in man. fermentation products (antibiotic-penicillin, enzymes-protease) Unit-III- Innate and Acquired Immunity Phylogeny and Ontogeny of immune system - Organization and structure of lymphoid organs, Cells of the immune system and their differentiation - Lymphocyte traffic - Nature of immune response Antigenicity and immunogenicity - Factors influencing immunogenicity - Epitopes and haptens - Superantigens - Structure and Functions of Antibodies - Classes and subclasses - Gross and fine structure - Antibody mediated effector functions - Antigen- Ab interactions Unit-IV- T-cell generation, activation and differentiation & Isolation, molecular components and structure of T-cell receptor complex, T-cell maturation and thymus - T- cell differentiation - Cell death and T- cell population - B- cell generation, activation and differentiation - B-cell receptors - B-cell activation and proliferation - T_H B- Cell
- In Elective Paper: III- **Biochemistry And Biophysics** 50% added and replaced. Unit-III Microtechniques Fixation, histological and histochemical staining methods for proteins, carbohydrates, lipids and nucleic acids, Different fixation and staining techniques for electron microscope. Immunocytochemistry – principles and applications- in situ localization by FISH and GISH. Photometry – Principle and applications of flame photometry and flow cytometry. Unit- IV Nuclear Medicine In-vitro & in-vivo imaging using radioisotopes, Blood volume determinations by isotopic method, Radioiodine diagnosis & therapy in thyroid disorders, Principle, method and applications of Radioimmunoassay, organ scans-thyroid, liver, brain, bone, renal imaging, cardiac imaging, PET scan, nuclear medicine for therapy, radiopharmaceuticals-concept, production & use.

SEMESTER IV

- In **Research Methodology and Biostatistics** 80% added and replaced. Unit-I Concepts of Research Meaning, Objectives, Motivation and Approaches, Types of Research (Descriptive / Analytical, Applied / Fundamental, Quantitative / Qualitative, Conceptual

/ Empirical, Research Methodology). Research methods Vs Research Methodology- Library research, Field research, and laboratory research. Research Design – Survey Research & Case Study Research. Unit-II Research Formulation: Observation and Facts, Prediction and explanation, Induction, Deduction. Defining and formulating the research problem, Selecting the problem and necessity of defining the problem. Literature review - Importance of literature reviewing in defining a problem, Critical literature review, Identifying gap areas from literature review, Hypothesis – Null and alternate hypothesis and testing of hypothesis. Unit -III Research reports and IPREffective technical writing of a report, research paper and review paper. Preparation of a Research Proposal, Format of research proposal, a presentation and assessment by a review committee. Academic Writing Tools and Research Software. Nature of Intellectual Property: Patents, Designs, Trade and Copyright. Process of Patenting and Development: technological research, innovation, patenting, development. International Scenario: International cooperation on Intellectual Property. Procedure for grants of patents, Patenting under PCT. Unit-IV Basics of Biostatistics Introduction to Statistics – Data Collection: Sources of Data – Primary Data – Secondary Data - Procedure Questionnaire – Sampling Methods – Merits and Demerits – Experiments– Observation Method – Sampling Errors - Type-I Error & Type-II Error. Unit-V Stastical Analysis Probability Theories – Conditional Probability, Poisson Distribution, Binomial Distribution and Properties of Normal Distributions – Hypothesis Tests – One-Sample Test– Two-Sample Tests / Chi-Square Test, Association of Attributes - Standard Deviation – Co-Efficient of Variations. Introduction to SPSS.

- In Elective Paper IV-**Entomology**, Unit-V Pesticide-Vector Control And Their Management: Principles and methods of pest suppression: Natural, Cultural, mechanical, physical, chemical, Biological methods. Integrated pest management. Integrated Vector Management (IVM).

DEPARTMENT OF BOTANY

SEMESTER III

Allied Paper - I

- The units were rearranged according to the hierarchy of the plants. Previously Bacteria and Viruses were placed in Unit III has been replaced in Unit I.
- In unit 1 Corona Virus is newly added because students must know more about the virus and the precautions to be followed to control the virus . Previously Unit II Bryophyte, Pteridophyte and Gymnosperms - has been replaced now in Unit III.
- In Unit III Gymnosperm plant Cycas was newly added.

SEMESTER IV

Allied Paper - II

- Medicinal Plants was newly added in Unit V. Students must know more about the indigenous flora and their uses in day today life.

DEPARTMENT OF MANAGEMENT STUDIES

B.Sc (ISM)

- The syllabus is revised and Outcome based syllabus has been introduced since the academic year 2019-2020.

The subjects which replaced newly are the

- **Training and development** instead customer relationship management,
- **Stress management** instead of fundamentals of business information system,
- **Digital Marketing** instead of cyber law fundamentals,
- **Personality Development and Soft Skills for Business** instead of leaderships skills, Tally and GST Oriented subjects instead of Tally,
- **Technopreneur** introduced instead of Organizational Behavior,
- **Business Communication** instead of Entrepreneurial Management,
- **Business Ethics** introduced instead of Knowledge Management and
- The project for the final year students has been compulsory for complete the course instead of optional.

BBA

The subjects which replaced newly are

- **Business Organization** instead of risk management and insurance,
- **Production Management** instead of principles of banking, human resource management instead of operations management,
- **Customer Relationship Management** replaced with business Policy and Strategic Management,
- **Principles of banking** instead of E-business, management concepts instead of Training and development,
- **Women Entrepreneurial Management** introduced instead of elements of hospital management,
- **Personality Development and Soft Skills for Business** introduced instead of Leadership skills,
- **Materials management** introduced to increases the knowledge of an inventory control, purchase management, store keeping, vendor rating and value analysis.
- Skill based subject **tally and GST oriented** is introduced to develop GST knowledge among the learners.
- The project for the final year students has been compulsory for complete the course instead of optional.

MA(HRM)

- The subjects which replaced newly are
- **Labour Legislation – I** instead of Organisational Behaviour,
- Self study paper **Business Ethics** is introduced to understand ethical issues in the workplace and to understand real life situations. Students learn themselves, prepare notes will appear for objective type of questions at end of the semester.

- **Global HRM** syllabus is introduced newly to familiarize the students with the global culture, global staffing, performance appraisal and global compensation in international context. This course aims to introduce students to the theory and practices of global HRM.
- The second self study paper **Research aptitude** is introduced to enhance the research aptitude of the learner. Talent Management subject is introduced instead of Organizational Change and Development The purpose of talent management is to learn to identify, recruit and hold on to people who drive the success of organization and in nurturing talent to sustain strong company performance and underpin future growth.
- **Electronic HRM** has been introduced instead of Strategic Human Resource Management to advance students' cognitive skills and processes, their knowledge of theory and application, and develop their professional skills.
- **Corporate Governance** is introduced as an elective paper to impart knowledge on concepts of corporate governance, issues, legislative framework, effectiveness of board, and rights of shareholders.
- **Human Resource Development** is introduced to develop a variety of competencies in areas like knowledge, attitudes, skills and technical areas, managerial areas, behavioural and human relations areas and conceptual areas in order to perform various tasks or functions required in jobs.
- **People Management** is introduced so that students would learn effective utilization of human resources and gain knowledge on organizational structure.

DEPARTMENT OF PSYCHOLOGY

B.Sc PSYCHOLOGY

The curriculum has been framed based on Outcome Based Education. The papers have been shuffled from 3rd semester to 6th semester for the benefit of students to have clear view on specialisations available in Psychology.

SEMESTER III

- Positive Psychology is brought to IIIrd Semester and replaced learning Disability
- The Skill Based Subject Life Skills Development renamed as Life Skills Education
- Two NME papers Psychology of Adjustment I and II clubbed as single NME paper Psychology of Adjustment

SEMESTER IV

- Counselling and guidance brought from VIth Semester to IVth Semester.
- Marketing and Advertising and Consumer Behaviour was clubbed as one elective paper **Consumer Psychology**
- **Psychology of Health and Well-being** is introduced as NME paper

SEMESTER V

- **Communication skills** is introduced as Skill Based Subject and
- **Cyber Psychology** is introduced as Elective

- The practical I is modified as core paper and the paper renamed as **Experimental Psychology** from Psychological Assessment-I
- Environmental Psychology and Learning Disability have been added as elective papers.

SEMESTER VI

- **Sports Psychology** is introduced as elective paper
- The practical II is modified as core paper and the paper renamed as **Psychological Assessment** from Psychological Assessment-II

DEPARTMENT OF COMPUTER SCIENCE AND APPLICATION

B.Sc COMPUTER SCIENCE

- In third semester the core paper “**C++ and Data Structure**” has been replaced with the paper “**Visual Programming and DBMS**”.
- In third semester the core practical “**C++ and Data Structure**” has been replaced with the practical “**Visual Programming and DBMS**”.
- In third semester the skill based practical “**Unix Shell Programming**” has been replaced with the practical “**Open Source Software**”.
- In third semester the Non-Major Elective paper “**Information Technology**” has been updated to paper “**Introduction to Information Technology**”.
- In fourth semester the core paper “**DataBase Management system**” has been replaced with the paper “**ASP.Net**”.
- In fourth semester the core practical “**DataBase Management system**” has been replaced with the practical “**ASP.Net**”.
- In fourth semester the Non-Major Elective paper “**Web Designing**” has been replaced to paper “**Internet and its Applications**”.
- All the other papers in the III & IV semester were restructured according to Outcome Based Education model.
- In fifth semester the core paper “**Programming in Java**” has been replaced with the paper “**Advanced Java Programming**”.
- In fifth semester the core practical “**Programming in Java**” has been replaced with the paper “**Advanced Java Programming**”.
- In fifth semester the core paper “**Visual Programming**” has been replaced with the paper “**Programming with Python**”.
- In fifth semester the core practical “**Visual Programming**” has been replaced with the paper “**Programming with Python**”.
- In fifth semester the Elective - I paper –II “**Internet and Its Applications**” has been replaced to paper “**Computer Graphics**”.
- In fifth semester the Elective - II paper –I “**Computer Graphics**” has been replaced to paper “**Data Communication and Networking**”.
- In fifth semester the skill based theory “**Computational Skills for Competitive Examination**” has been replaced with the Skill Based Practical “**Operating System Lab**”.

- In sixth semester the core paper “**Android and Its Applications**” has been renamed as “**Android Programming**”.
- In fifth semester the core practical “**Android and Its Applications**” has been renamed as “**Android Programming**”.
- In Sixth semester the core paper “**Web Technology**” has been replaced with the paper “**Cloud Computing**”.
- In sixth semester the core practical “**Web Technology**” has been replaced with the paper “**Cloud Computing**”.
- In sixth semester the Elective - IV paper –II “**Computer Network**” has been replaced to paper “**Data Analytics**”.
- All the other papers in the V &VI semester were restructured according to Outcome Based Education model.
- Hours and Credits for each paper in all semester were updated.

B.C.A.

- In third semester the core paper “**C++ and Data Structure**” has been replaced with the paper “**Visual Programming and DBMS**”.
- In third semester the core practical “**C++ and Data Structure**” has been replaced with the practical “**Visual Programming and DBMS**”.
- In third semester the Elective - I paper –II “**System Analysis and Design**” has been replaced to paper “**System security**”.
- In third semester the skill based practical “**Unix Shell Programming**” has been replaced with the practical “**Open Source Software**”.
- In third semester the Non-Major Elective paper “**Information Technology**” has been updated to paper “**Introduction to Information Technology**”.
- In fourth semester the core paper “**DataBase Management system**” has been replaced with the paper “**ASP.Net**”.
- In fourth semester the core practical “**DataBase Management system**” has been replaced with the practical “**ASP.Net**”.
- In fourth semester the Non-Major Elective paper “**Web Designing**” has been replaced to paper “**Internet and its Applications**”.
- All the other papers in the III & IV semester were restructured according to Outcome Based Education model.
- In fifth semester the core paper “**Programming in Java**” has been replaced with the paper “**Advanced Java Programming**”.
- In fifth semester the core practical “**Programming in Java**” has been replaced with the paper “**Advanced Java Programming**”.
- In fifth semester the core paper “**Visual Programming**” has been replaced with the paper “**Programming with Python**”.

- In fifth semester the core practical “**Visual Programming**” has been replaced with the paper “**Programming with Python**”.
- In fifth semester the Elective - III paper –1 “**Computer Graphics**” has been replaced to paper “**Data Communication and Networking**”.
- In fifth semester the skill based theory “**Computational Skills for Competitive Examination**” has been replaced with the Skill Based Practical “**Operating System Lab**”.
- In sixth semester the core paper “**Android and Its Applications**” has been renamed as “**Android Programming**”.
- In fifth semester the core practical “**Android and Its Applications**” has been renamed as “**Android Programming**”.
- In Sixth semester the core paper “**Web Technology**” has been replaced with the paper “**Cloud Computing**”.
- In sixth semester the core practical “**Web Technology**” has been replaced with the paper “**Cloud Computing**”.
- In sixth semester the Elective - IV paper –II “**Computer Network**” has been replaced to paper “**Data Analytics**”.
- All the other papers in the V &VI semester were restructured according to Outcome Based Education model.
- Hours and Credits for each paper in all semester were updated.

M.Sc COMPUTER SCIENCE

- In third semester the core paper “**C# programming**” has been renamed as “**Enterprise Application using C#**”
- In third semester the core practical “**C# programming**” has been renamed as “**Enterprise Application using C#**”
- In third semester the core paper “**Asp.Net framework**” has been replaced with the paper “**Mobile Computing**”
- In third semester the core practical “**Asp.Net framework**” has been replaced with the paper “**Mobile Computing and Python**”
- In third semester the core paper “**Artificial Neural Network**” has been replaced with the paper “**Machine Learning and Python Programming**”
- In third semester the core Elective paper-3 “**Mobile Communication**” has been replaced with the paper “**Internet of Things**”
- In forth semester the core Elective paper-4 “**Cryptography and Network Security**” has been added.
- All the other papers in the III&IV semester were restructured according to Outcome Based Education model.
- Hours and Credits for each paper in all semester were updated.

B.Sc ISM

- In third semester the core paper “**Programming In C**” has been replaced with the paper “**Programming in C and C++**”.
- In third semester the core practical “**C Programming**” has been replaced with the paper “**Programming in C and C++**”.
- In fourth semester the core paper “**Object Oriented Programming with C++**” has been replaced with the paper “**RDBMS**”.
- In fourth semester the core practical paper “**Object Oriented Programming with C++**” has been replaced with the paper “**RDBMS**”.
- In fifth semester the core paper 5 “**Java Programming** ” has been moved to sixth semester core paper 8
- In Fifth Semester the new core paper5 ” **Multimedia**” has been introduced.
- In fifth semester the core Practicalpaper “**Java Programming and Web Technology** ” has been moved to sixth semester practical paper
- In Fifth Semester New core Practical5 paper “**Multimedia Using Flash**” has been introduced.
- All the other papers in the III, IV, V &VI semester were restructured according to Outcome Based Education model.
- Hours and Credits for each paper in all semester were updated.

B.Com (COMPUTER APPLICATION)

- In third semester the core practical paper-I “**Internet and Office Automation Lab**” has been added.
- In forth semester the core theory paper “**Java Programming**” has been replaced with “**Database Management System**”.
- In forth semester the core practical paper-II“**DBMS LAB**” has been replaced with “**RDBMS LAB**”.
- In fifth semester the core theory paper “**Web Technology**” has been replaced with “**Multimedia**”.
- In sixth semester the core theory paper “**Software Engineering**” has been replaced with “**Programming in Java**”.
- In sixth semester the core theory paper “**Multimedia**” has been replaced with “**Web Technology**”.
- In sixth semester the core practical paper-III“**Web Technology**” has been replaced with “**Java Programming and Web Technology**”.
- All the other papers in the III &IV semester were restructured according to Outcome Based Education model.
- Hours and Credits for each paper in all semester were updated.

DEPARTMENT OF ECONOMICS

Curriculum place very important role in the field of Higher Education. Changes in curriculum are geared towards **improvement**, particularly in relation to the quality of the teaching and the learning process. Curriculum has implications for teacher competence and capacity to manage change because most curriculum change involves innovations.

Faculty members, subject experts from other colleges and university nominee of the Board of Studies explore the ways and means to improve the standard of syllabus to cater the need of the hour.

We gladly present the following changes in the syllabus of Indian Economic Development I & II for the UG History of II B.A. 3rd semester and 4th semester. The Board attempted a mild churning and shuffling with Indian Economic Development syllabus. Roughly 30% of the syllabus has been changed. More thrust is given for an elaborate study of an industry such as micro, medium and large industry. It is to enable the students to get a bird's eye view about the industry and its growth strategy. The topic on NITIYAYOG and its functioning are also a part of this syllabus.

Curriculum Changes during 2020-2021 for the UG Commerce, B.Com 3rd semester and 4th semester.

- The Board of Studies firmly believed that the subject changes should enhance the potential of the students in their subjects.
- We gladly present the following changes in the syllabus of Business Economics I & II for the UG Commerce of II B.Com. 3rd semester and 4th semester. The syllabus is framed in such a way that it acts as a platform for their higher studies. In this subject, **Supply Analysis introduced in the place Decision making theory as one of the unit after Demand analysis** in which they study importance, types, supply schedule with diagram and factors affecting Supply to enhance the practical knowledge.
 - Market structure is explained with long run and short run cost for price and output determination. The study tries to inculcate the logical and practical values of business which will train them to be successful in business. Roughly 30% of the syllabus has been changed.

Curriculum Changes during 2020-2021 for the UG Business Administration, B.B.A. 3rd semester.

- In Course **'Managerial Economics is replaced with 'Economics for Managers'**We present the following changes in the syllabus of Economics for Managers for the UG Business Administration of II B.B.A. 3rd semester. In this subject, **Supply Analysis introduced after Demand analysis as one of the unit**, in which they study importance, types, supply schedule with diagram and factors affecting Supply to enhance the practical know how.
- This subject is exclusively tailor made to suit the present trends with updating in the concepts of the subjects. On the whole 30% of changes made on the subject

DEPARTMENT OF BIOCHEMISTRY

III SEMESTER

- **Analytical Techniques I (40% change):** In Unit III, Homogenization techniques were introduced instead of Electrophoresis. In Unit IV, Methods of Analytical ultracentrifuge were specified.
- **NME-Diagnostic Biochemistry I(25 % change):** In Unit-III, Unit-IV and Unit V, Organ function tests were specified.

IV SEMESTER

- **Analytical Biochemistry and computer Applications (50% change):** Subject title Analytical Biochemistry and computer Applications was replaced as Analytical Techniques II. Instead of Computer application Units in Unit IV and V, Electrophoresis was introduced in Unit I and II as Electrophoresis I and II.
- **Practical II - Analytical Techniques and Biochemical preparations (40% change):** Volumetric analysis part was replaced with Analytical Techniques (Paper Chromatography, TLC column chromatography and SDS PAGE).
- **Skill Based-MLT II – (10% change)** Stool Analysis was added in Unit III and Clinical significance of whole blood was included in Unit IV
- **Non – Major Diagnostic Biochemistry II (10% Change) –** Clinical Endocrinology was included as Unit V

V SEMESTER

- **Enzymes and Enzyme Techniques(25% change) :** In Unit I, Anti - oxidant enzymes, ribozymes and abzymes were included. Enzyme Regulation & Co-operativity was included as Unit IV.
- **Human Physiology (5% change):** Composition of semen was included in Unit III
- **Skill Based (100% Change):** Applications of Computer in Biology was included as skill Based paper which would enable the students to handle clinical data in computerized form.

VI SEMESTER

- **Nutritional and Plant Biochemistry (25% change):** Subject Title Nutritional and Plant Biochemistry was replaced as Nutrition and Plant Biochemistry. In Unit IV Photosynthesis and Plant Hormones were included. In Unit V Plant defence mechanism was introduced and Sources of production of SCP was specified.
- **Intermediary Metabolism (15% change):** Detoxification mechanism was included in Unit IV
- **Immunology (15% change):** Complement Pathways was included in Unit II, Tumour Immunology was included in Unit V.
- **Clinical Biochemistry (5% change):** Minor changes were made in Unit V, specified only the important test for the organ functions.
- **Skill Based (100% change):** Bio-informatics was included as skill based paper instead of Herbal Technology which helps the students in obtaining about molecular docking and drug designing, that helps in creating job opportunities.

- **Practical III - Colorimetric Estimations(50% change):** Instead of Haematology part Enzyme kinetics was introduced.
- **Practical IV - Enzymes and Chromatographic techniques (100% change):** Enzymes and chromatographic techniques was replaced by Haematology and Urine analysis.

M.Sc Biochemistry

III Semester

- **Hormonal Biochemistry (15% change):** In Unit I specified the second messengers of signal transduction. Certain topics were rearranged between Unit III and Unit IV.
- **Immunology (5% Change):** Antigen – Antibody detection methods were specified in Unit IV
- **Research Methodology (5% change):** In Unit IV Biostatistics methods were specified which finds application in Research analysis and data interpretation.
- **Clinical Biochemistry(5% Change):** Changes were made in Unit III and Unit V to specify the particular test in assessing liver function and Cancer biology respectively.
- **Self Study (100% Change) :** Health Care Management was included as self study paper which would aid students to seek their career in Health care system.

IV Semester

- **Molecular Genetics (25% Change):** Developmental Genetics was included in Unit IV. Specific test were included in Diagnosis of genetic defects in Unit V.
- **Biotechnology & Bio-Informatics (10% Change):** Changes were made in Unit V, database tools were specified for structural analysis of Proteins. PUBCHEM was also introduced which would help in determining the chemical molecule and their activities against biological assays.
- **Practical IV (10% Change)** – Immunological and molecular methods was included.
- **Practical V (20% Change)** – Screening of Inborn Errors was included in Urine Analysis.

DEPARTMENT OF MICROBIOLOGY

B.Sc MICROBIOLOGY

III Semester

- Immunology – In Unit I, hematopoiesis, B cells, T cells, granulocyte and agranulocytes, phagocytosis has been included, in Unit II Interleukin, cytokines has been included.
- Allied Paper III, Computers in biology and Biostatistics has been replaced with Bioinstrumentation.

IV Semester

- **Molecular Biology** – In Unit I, Avery experiment has been included.
- Allied Paper IV, Bioinstrumentation.has been replaced with Biostatistics.

V Semester

- **Medical Bacteriology** – In Unit II,transmission of infections, carriers and their types, in Unit III and Unit IV the specific species for each organism is mentioned. In Unit IV *Mycoplasmas* and *Ureoplasmas*.

- **Food and Dairy microbiology** – In Unit II, irradiation, hydrostatic pressure, high voltage pulse, microwave processing and aseptic packaging, chemical methods of food preservation: salt, sugar, organic acids, SO₂, nitrite and nitrates, ethylene oxide, antibiotics and bacteriocins and in Unit V Bread – vinegar – Fermented Vegetables – Sauerkraut has been included.
- **Medical Mycology and Parasitology** – in Unit III Allergic fungal diseases: Bronchial asthma, Maple Bark Stripper's disease has been included
- **Recombinant DNA Technology**- in Unit III Antibiotic resistance, lac Z, α complementation (Blue-white selection). Colony Hybridization and Immunological screening for expressed genes and in Unit V Forensic applications - DNA Profiling has been included.

VI Semester

- **Medical Virology** – in Unit IV Nido, Filo has been included
- **Environmental Microbiology** – in Unit IV, biopesticides and biofertilizers has been removed, in Unit V bio manure, - advantages and processing parameters has been included.
- Elective III, Fermentation technology has been replaced with Microbial Biotechnology

MSc APPLIED MICROBIOLOGY

III SEMESTER

- **Medical Mycology, Parasitology and Entomology**, Unit III, sensitivity tests, Unit V Mode of transmission of pathogens by vectors, chemical, biological and environmental control of vectors has been included.
- **Industrial and Pharmaceutical Microbiology** – Unit I Introduction to fermentation – the range of fermentation process. The chronological development of the fermentation industry. The component parts of a fermentation process, in Unit IV Types of water (DM/Purified water/water for injection) used in pharmaceutical industry. Environmental monitoring. Growth promotion test and in Unit V Bacterial Endotoxin Test (BET). Microbial limit test. Validation of instruments (Laminar air flow, autoclave and Hot air oven). Good Documentation Practice (GDP) – SOP – GLP. Failure investigation has been included.
- **IPR, Biosafety and Quality Control**- Unit II Environmental risks – Cartagena protocol, Unit IV Guidelines for use of lab animals in medical colleges – licensing of animal house – Prevalence of ethical issues – Invitro fertilization and stem cell technology has been included.

IV SEMESTER

- **Research methodology**- updated to help students to prepare Final project and also to encourage them to Pursue Research work.
- **Biostatistics**- updated to help students to prepare Final project and also to encourage them to Pursue Research work..

DEPARTMENT OF BIOTECHNOLOGY

III Semester

- Course Immunology (20% change) in Unit-III Antigens and antibodies is replaced with antigen processing and presentation, in Unit-IV antigen processing and presentation is replaced with clinical immunology, In Unit-V applied immunology Immunological techniques. The syllabus is suitable to the existing scenario so no changes have been implemented except for introducing outcome based education in the syllabus.
- Course Microbiology has been changed to molecular genetics (100% change).

- Vermiculture Technology Course- skill based subject has been changed to Molecular Diagnostics – I, in this course provides an introduction to the theory and use of molecular techniques in the diagnostics lab, with an emphasis on nucleic acids isolation, handling, and storage.

IV Semester

- Course rDNA Technology has been changed to Genetic Engineering (100% change).
- Course Biophysics and Biostatistics has been changed to Enzymology (100% change).
- Skill Based Course Food processing Technology has been changed to molecular Diagnostics-II.(100% change).
- Non Major Course Animal cell culture has been changed to kitchen rooftop gardening (100% change).

V Semester

- Course Plant Biotechnology has been changed to Plant and Agricultural Biotechnology.(100% change).
- Course Animal Biotechnology has been changed to Animal Cell culture (50% change). This course introduced to understand the cell culture technique, Cell viability and cytotoxicity assays, significance of its cultivation and its application in the production of valuable products.
- Course Medical biotechnology has been changed to Biophysics & biostatistics (100% change).
- Course Enzyme Technology has been changed to Developmental biology (100% change).
- Course Herbal Technology has been changed to Bioinformatics (100% changes).
- Skill based course Medical Laboratory Technology has been changed to Biobusiness management(100% changes).

VI Semester

- Course Industrial Biotechnology has been changed to Microbial and Industrial Biotechnology (50%) In Unit-I microbial physiology has been included, In Unit-II fermentation biotechnology has been included, In Unit-III different types of microbial culture methods has been included, In Unit-IV scope of primary and secondary metabolites and its products has been included, in Unit- V applications of microbial and industrial biotechnology has been included in the syllabus.
- Course Pharmaceutical Biotechnology has been changed to Pharmaceutics and Herbal Medicine.(50% change). This course introduced knowledge about overall industrial bioprocess so as to help them to manipulate the processes according to industrial needs. In Unit-IV- drug toxicity has been included, In Unit-V- mode of action of drugs has been included in the syllabus.
- Course Enzyme technology has been changed to Bioinstrumentation.(100% change).

M.Sc Biotechnology

III Semester

- Course Plant genetic engineering has been changed to transgenic technology (100% change).
- Course Bioprocess technology has been changed to Downstream processing (100% change).
- Course Environmental biotechnology has been changed to Research methodology and Biostatistics (100% change).
- Course Enzyme technology and Bioinformatics has been changed to Developmental Biology (100% change).

- Course Nutraceutical and functional foods-A new self study course introduced to impart detailed knowledge about the basic concepts of nutraceuticals and functional foods, nutraceuticals of various origins. Concept of prebiotics, probiotics, synbiotics, free radicals and antioxidants.

IV Semester

- Course Animal Cell Culture has been changed to Ecology & Environmental biotechnology (100% change).
- Course Research Methodology- has been changed to Bio safety, IPR & Ethics (100% change)**This course introduced to impart detailed knowledge about concepts and importance of bioethics and biosafety and IPR Ethical Issues in Human Biotechnology has been included in the syllabus.

DEPARTMENT OF FOODS AND NUTRITION

B.Sc

III SEMESTER

- **HUMAN PHYSIOLOGY**- The syllabus is updated 50% to cover advanced theories and to know about recent function of various human body system.
- **FOOD MICROBIOLOGY** – 100% new syllabus instead of Allied Computer science has been included to enhance their knowledge about role of microorganism in human and environment and role of microbes in food and health.
- **HOUSING AND INTERIOR DECORATION**- The syllabus is updated 80% to suit for current trends and higher education. The units covered to know the recent concepts and design and importance of accessories and lighting.
- **HOME SCALE FOOD PRESERVATION**- The syllabus is designed to know the principles of preservation and type of spoilage and its preventive measures with recent scenario. The syllabus is updated nearly 75 % and new topics like FSSAI AND ISO has been included.

SEMESTER IV

- **NUTRITION THROUGH LIFE SPAN**- Nearly 50% of the syllabus were updated to impart the new computation and Dietary modifications.
- **POST HARVEST TECHNOLOGY**- The syllabus designed to Acquire the knowledge regarding the principles and methods of processing.60% updated with required techniques in harvesting.

SEMESTER V

- **DIETETICS –I**- nearly 75% updated to impart knowledge in the field of dietetics and make them a Responsible Dietician.
- **PRINCIPLES OF HUMAN NUTRITION** –Nearly 75% updated with recent classifications of all the nutrients.
- **FOOD ADULTERATION AND TOXICOLOGY** –100% new course introduced to identify the different types of toxins in various Foods.
- **HUMAN DEVELOPMENT**- 10% updated to understand the Developmental Aspects.

- **BASICS OF RESEARCH IN NUTRITION** – 100 % new course introduced to Develop the awareness regarding the basic elements of Research.

SEMESTER VI

- **COMMUNITY NUTRITION AND EXTENSION EDUCATION** – The syllabus covers the basic knowledge about malnutrition and its prevalence and the most required topics like the methods used to combat community problems. In Unit I – Extension and Definition of Home science were Included, Unit III- Ecological parameters and vital statistics included. In unit IV- New Effective Extension Teaching Methods were included. Nearly 40 % of syllabus updated to understand new Extension Teaching methods.
- **DIETETICS II-** The syllabus is updated nearly 50% with new Disease condition and their prevention, treatments included. The syllabus covers recent trends in modification of diet for different disease condition.
- **FOOD SERVICE MANAGEMENT** – The syllabus is designed to impart knowledge on Organizational aspect and functioning of different types of food service Institutions and to develop Managerial skills among students. This syllabus is updated nearly 50% to meet the current demand in Higher education.
- **TEXTILE AND CLOTHING-** The new syllabus introduced to provide awareness among the students regarding fashion and textiles. Students can enhance their knowledge and it is helpful to clear competitive exams.
- **NUTRACEUTICALS AND NUTRIGENOMICS-** The syllabus is designed to impart knowledge about the role of nutraceutical and functional foods. The new syllabus introduced to improve the knowledge about prebiotics, probiotics and Nutrigenomics.

MSC

SEMESTER III

- **BIOCHEMICAL BASIS OF NUTRITION-** The syllabus is updated nearly 80% to enable the students to obtain the depth knowledge about major nutrients and metabolic pathways which provides students to get advanced knowledge about role of nutrients in human metabolism.
- **PUBLIC HEALTH NUTRITION-** 50 % updated to help students to know the updated knowledge about consequences of Nutritional problems and to learn about various Government programmes aimed at improving health and nutritional status.
- **RESEARCH METHODOLOGY & BIostatistics-** 60% updated to help the students to pre-prepare for final year project and also encourage them to do self statistics.
- **NUTRIGENOMICS-** New course Introduced to impart knowledge about recent updates in Foods and health and also students can easily understand the uses of Functional Foods which is helpful for their projects.

SEMESTER IV

- **FOOD STANDARDS AND QUALITY CONTROL** – 60 % updated to enhance their knowledge about food safety and Food laws. To Study about the quality and common food standards.

- **ADVANCED TECHNIQUES OF FOOD ANALYSIS** – 100 % new course introduced to help students to get job in Food industries. This syllabus designed to learn the basic principles of recent Instrument used in food analysis and students can Acquire Laboratory skills for performing a range of chemical and physicochemical analyses of food components.
- **UGC NET FOR HOME SCIENCE-** 100% New course Introduce to help the students to prepare for NET/SET exams.

13. Innovations under Autonomy

Details of grants received by Staff members

Name of the staff	Year	Details of the project	Funding agency	Amount Rs.
Dr.J.Hemapriya Assistant Professor of Microbiology	2019- 2021	Bacteriorhodopsin- a purple membrane protein mediated solar cells for energy production. It is a project under students scheme.	Tamil Nadu State Council for Science and Technology	3,00,000

a. Details of research papers per teacher in the Journals notified on UGC website during the year

Title of the paper	Name of the author/s	Name of journal	Year of publication	ISBN/ISSN number	Total No. of Papers per Teacher
Department of Chemistry					
Fixed Bed Column Adsorption studies of Lead (II) From Aqueous Solution using Chitosan-G-Maleic Anhydride-G-Methacrylic acid copolymer	R.Lavanya, T Gomathi , R.Nithya and Sudha P.N.	Journal of Science and Technology	2020	ISSN: 2456-5660	3 (2 Combined authors)
Batch adsorption studies on surface tailored chitosan/orange peel hydrogel composite for the removal of Cr(VI) and Cu(II) ions from synthetic wastewater	S. Pavithra, GomathiThandapani , Sugashini S, Sudha P.N. , Hussein H. Alkhamis, Abdulwahed F. Alrefaei, Mikhlid H. Almutairi	Chemosphere	2021	ISSN: 0045-6535	
Toxic heavy metal cadmium removal using chitosan and	Saleh O. Alaswad, K. Bakiya Lakshmi, P.N. Sudha , T. Gomathi ,	International Journal of Biological	2020	ISSN: 1879-0003 (web)	

polypropylene based fiber composite	Prabhakarn Arunachalam,	Macromolecules			
Batch and column mode removal of the turquoise blue (TP) over bio-char based absorbent from Prosopis Juliflora : comparative study	Pamila Ramesh, Vasanthi Padmanabhan, R. Arunadevi, P.N. Sudha, Abd El-Zaher M.A. Mustafa , Abdullah Al-Ghamdi Ahmed, Amal H. Alajmi, Mohamed Soliman Elshikh	Chemosphere	2021	ISSN: 0045-6535	(2 Combined authors)
Synthesis, Characterization and Antimicrobial Activity of a Chalcone Derivative	E. Kalaiselvi, R. Arunadevi and S. Sashikala	Journal of Science and Technology	2020	ISSN: 2456-5660	1(2 Combined authors)
Current Use of Carbon-Based Materials for Biomedical Applications—A Prospective and Review	Govindasamy Rajakumar, Xiu-Hua Zhang, Thandapani Gomathi* , Sheng-Fu Wang, Mohammad Azam Ansari, Govindarasu Mydhili, Gnanasundaram Nirmala, Mohammad A. Alzohairy and Ill-Min Chung	Processes	2020	ISSN: 2227-9717	2
Yttrium Oxide Nanoparticle Synthesis: An Overview of Methods of Preparation and Biomedical Applications	Govindasamy Rajakumar, Lebao Mao, Ting Bao, Wei Wen, Shengfu Wang, Thandapani Gomathi, Nirmala Gnanasundaram, Maksim Rebezov, Mohammad Ali Shariati, Ill-Min Chung, Muthu Thiruvengadam and Xiuhua Zhang	Applied Science	2021	ISSN: 2076-3417	
Biological Activities of Schiff base metal (II) complexes derived from N-(2-	J. Saranya, R. Bharathi and Priyadarshini, Sundramurthy Santha Lakshmi	The International Journal of Analytical and	2021	ISSN: 0886-9367	2(2 Combined

hydroxyacetophenone)- L-valinate and azides		Experimental Modal Analysis			autho rs)
Synthesis Characterization And Biological Activities of Schiff Base Metal (II) Complexes Derived From L-Methionine and Cuminaldehyde	J.Saranya, R.Bharathi Priyadarshini and SundramurthySantha Lakshmi	Journal of Advanced Scientific Research	2021	ISSN : 0976- 9595	
Department of Mathematics					
Applications of Kamal Transform in Two Tank Mixing Problems	S. Kalaiarasi S. Keerthana, N.Nithyapriya and M.Anita	Advances in Mathematics: Scientific Journal	2020	ISSN: 1857- 8365 (printe d) 1857- 8438 (electr onic)	1
Department of Commerce					
Research study of employability skills achievement among college students in Vellore city – A Bird’s View	R.Padmaja and J.Sumitha	Bulletin Monumental Journal	2020	E- ISSN: 0007- 473X	3(2 Com bined autho rs)
Survey on the Prospective Variabiliy of Employability skills of Women Students – A study with reference to higher educational Institutions in Vellore	R. Padmaja and J. Sumitha	Aegaeum Journal	2020	ISSN No.077 6-3808	
Research Survey on the prospective development aspects of employability skills with teacher’s perspective – A study with reference to Women students in higher education Institutions in Vellore	R. Padmaja and J. Sumitha	GIS Science Journal	2020	ISSN No186 9-9391	
A Study on impact of Word of Mouth on	G.Bhavani	Sambodhi	2021	2249- 6661.	2

Consumer Buying Decision					
Am Empirical Study on Green Marketing (with special reference to Vellore Region)	G.Bhavani	Kala Sarovar	2021	Approved for Publication	
A Study on impact of Word of Mouth on Consumer Buying Decision	K.Vinithi	Sambodhi	2021	ISSN No.2249-6661.	3
Impact of Celebrity Endorsement on Consumer Buying Behaviour	K.Vinithi	Wesleyan Journal of Research	2021	ISSN No. 0975-1386.	
Am Empirical Study on Green Marketing (with special reference to Vellore Region)	K.Vinithi	Kala Sarovar	2021	Approved for Publication	
Health Problems of Children in India	D. Vijaya Nirmala	Sambodhi	2020	2249-6661	1
Entrepreneurial Intention of Business Students	J.Anbazhagi	Journal of Interdisciplinary Cycle Research	2020	Vol XII issue X	1
Department of History					
Impact of Leather Industries in Undivided Vellore District- a Brief Study, P.No.548 to 552.	Lt.A.Amirthavalli and J. Gayathri	International Journal of Emerging Technologies and Innovative Research	2020	ISSN:2349-5162	2
The Study on Historical Geography of the Jainism in Tamilnadu.	Lt.A.Amirthavalli and M. Rajeshwari	The Journal of Indian Art History Congress	2021	ISSN:0975-7945	
Department of Economics					
A Study on Socio Economic Problems of Malayali Tribes in Jawadhu Hills	M. Jayasudha	Journal of Emerging Technologies and Innovative Research	2020		1
Department of Tamil					

Sanga illakkiyavaralarum, puthumaisinthanaigalum	Dr.G.Sujatha	Modern Tamil Research	2020	ISSN – 2321-984X	1
Palamolikalin Valarchiyum Athen Payanpadum	Dr.G.Shanthi	Modern Thamizh Research	2020	ISSN – 2321-0737	2
Palamolikalin Valarchiyum Athen Payanpadum	Dr.G. Shanthi	Kalanthorum Tamil Ilakkiyakkalin Varalarum Puthumai Cinthanaigalum	2020	ISBN-978-93-87946	
Ambain Sirukadhaigalil Pudhumai Sinthanaigal	V.Geetha and Dr.G.Sujatha	Modern Tamil Research	2020	ISSN No 2321-984X	1
Naaladiyaarin Varalaarum raimarabum	R.Sankareswari and Dr.G.Sujatha	Modern Tamil Research	2020	ISSN No 2321-984X	1
Kurunthogaiyil pazhant hamizharinkalaiyial nu tpangal	D.Punithavalli and S.Thamaraiselvi	Modern Tamil Research	2020	ISSN No 2321-984X	1
Department of Zoology					
Facile green synthesis of silver doped ZnO nanoparticles using Tridax procumbens leaf extract and their evaluation of antibacterial activity	A. Vinodhini	Journal of Water and Environmental Nanotechnology	2020	2476-6615	1
Department of Biochemistry					
Identification of the Potential Antigens Sites Of Enterobacter cloacae and its 3D Structural regions studies using computational Biology Protocols	G. Nithya ,Prabha. V and Balaji Munivelan	Proteus Journal	2020	0889-6348	4 (2 Combined authors)
In silico Drug Designing and Pharmacokinetics Studies on the Gene, Macc1 (Metastasis	S. Maithreyee , Prabha.V , Nithya.G and Balaji Munivelan	Journal of University of Shanghai for Science and Technology	2020	1007-6735	

Associated Gene in Colon Cancer 1), Responsible for Colon Cancer					
Identification of the Potential Antigens Sites Of Enterobacter cloacae and its 3D Structural regions studies using computational Biology Protocols	G. Nithya ,Prabha. V and Balaji Munivelan	Proteus Journal	2020	0889-6348	
Insilico Drug Designing and Pharmacokinetics Studies on the Gene, Macc1 (Metastasis Associated Gene in Colon Cancer 1), Responsible for Colon Cancer	Prabha.V ,Nithya.G and Balaji Munivelan	University of Shanghai for Science and Technology	2020	1007-6735	
Department of Microbiology					
Bioremediation of Textile and Tannery Effluents-An Overview	J.Hemapriya	Int. Journal of Current Microbiology and Applied Science (UGC Approved Journal)	2020	2319-7706	2
Biodegradation and Detoxification of Congo Red by intuitive bacterial strain TVU-CR4	J.Hemapriya	Int. Journal of Current Microbiology and Applied Science (UGC Approved Journal)	2020	2319-7706	
Bioremediation of Textile and Tannery Effluents-An Overview	A.Barathi	Int. Journal of Current Microbiology and Applied Science (UGC Approved Journal)	2020	2319-7706	2

Biodegradation and Detoxification of Congo Red by intuitive bacterial strain TVU-CR4	A.Barathi	Int. Journal of Current Microbiology and Applied Science (UGC Approved Journal)	2020	2319-7706	
Department of Computer Science and Applications					
Performace Analysis of AODV protocol using MANET	G. Sangeetha Lakshmi	International Research Journal of Engineering and Technology (IRJET)	2021	e- ISSN:2395-0056 p- ISSN:2395-0072	1
Solid Waste Collection and Transporation Monitoring and Management using Zigbee and GSM	B. Arulmozhiand K. Ayesha	International Research Journal of Engineering and Technology (IRJET)	2020	e- ISSN:2395-0056 p- ISSN:2395-0072 vol 7issue 9Sep 2020	1(2 Combined autho rs)
A survey on substantial super computer	S.Shanthi	International Research Journal of Engineering and Technology (IRJET)	2020	e- ISSN:2395-0056 p- ISSN:2395-0072 vol 7issue 9 Sep 2020	1
A Taxonomy and Survey of Security challenges in intrusion detection and	R.Hamsaveni	International Journal of Computer Sciences and	2020	e- ISSN:2347-2693	2

prevention for Cloud Computing		Engineering (IJCSE)			
An Implementaion Of Snort Based Intrusion Detection System Using Wireless Sensor Network	R.Hamsaveni	International Research Journal of Modernization in Engineering Technology and Science (IRJMETS)	2020	e-ISSN: 2582-5208	
Department of Management Studies					
Quality of work life of nurses in Vellore City	A. Kalaiselvi	IJIRT	2021	2349-6002	1

b) Number of books and chapters in edited volumes / books published per teacher during the year

Title of the book/chapters published	Title of the paper	National / international	Year of publication	ISBN/ISSN number of the proceeding	Affiliating Institute at the time of publication	Name of the publisher
Department of Chemistry						
Dr. P.N. Sudha and Dr. T. Gomathi						
Encyclopedia of Marine Biotechnology	Bioremediation.	International	2020	978-1-119-14377-2	D.K.M College for Women	Wiley-Blackwell
Encyclopedia of Marine Biotechnology	Ulvan in Tissue Engineering.	International	2020	978-1-119-14377-2	D.K.M College for Women	Wiley-Blackwell
Department of Commerce						
Dr.A.Sudarvizhi						
COVID 19- Invisible Enemy of Eye Opener Opportunities and Challenges	A study on E-learning of College Students in the period of Lockdown due to COVID -19	National	2020	ISBN 978-93-5419-610-2	DKM College for Women	Self Published – Dr.M. Ignatius Josph John,

						13/5 Homefinders Estate, Ramapuram, Chennai 89
Dr. T. Bharathi						
Invisible Enemy of Eye Opener COVID 19- Opportunities and Challenges	Challenges faced by the students in E-Learning during COVID 19 Period	National	2020	978-93-5419-610-2	DKM College for Women	Self Published – Dr.M. Ignatius Josph John, 13/5 Homefinders Estate, Ramapuram, Chennai 89
Technology Learning for Next Generation	E-learning	National	2020	978-91-4656-3	DKM College for Women	Chetan Jayanthi bhaiBhal Publications
Department of Tamil						
Dr. G. Sujatha						
Varalarinpakkangalli abdurahmannezhthi yakambaninarasiyal kotpadupuththagathi rganapattu			2020	978-81-945795-4-0	DKM College for Women	TamizhvalarchithuraiThiruppathur
Department of Biochemistry						
Dr.K.Shoba						
Advancement in Biological Sciences Part – C(Book)			2020	978-81-947361-1-0	DKM college for Women	Saliha Publication
Advancement in Biological Sciences Part –B(Book)	Bioinformatics		2020	978-81-	DKM college	Saliha Publication

				947361-1-0	for Women	
Compendium of Research insights of Life science Students	Application of gene annotation and phylogenetics annalysis of carcinin protein from carcinusmaenas		2020	978-81-946500-0-3	DKM college for Women	JPS Scientific Publications
Department of Mathematics						
Mrs. G. Chitra						
Fundamental Engineering Mathematics-II			2020	978-81-948141-0-8	DKM College for Women	AGAR Saliha Publications ,Tamil Nadu
Department of Physics						
Dr. N. Jabena Begum						
Introduction to Bionanotechnology	Nanobiomaterials	National	2020	978-81-946014-5-6	DKM College for Women	Saliha Publications (A) Association of Indian Biologists (AIB), Tamil Nadu, India
Text Book of Electricity and Electromagnetism	DC Circuits	National	2020	ISBN No:978-81-946014-3-2	DKM College for Women	Saliha Publications (A) Association of Indian Biologists (AIB), Tamil Nadu, India
Department of Computer Science and Applications						
Dr. M. Vasumathy						

Recent Trends in Computer Science and Information Technology	Basic Terms and Definitions in Image processing	National	2021	ISBN 978-81-947019-6-5	DKM college for Women	ESN Publications
Improved automatic anatomic location identification approach and CBR based treatment management system for pediatric foreign body aspiration	Recent Advance in 3D Imaging, Modeling and Reconstruction		2020	310717 - 065005)	DKM college for Women	IGI Global Publication on Scopus
Mrs. R. Bhuvaneshwari						
COVID-19 and its Impact	Recent Trends in Computer Science and Information Technology	National (INDIA & ASIA Book of Record Certificate)	2021	ISBN 978-81-947019-4-1	DKM college for Women	ESN Publications
Department of Physics						
Dr. N. Jabena Begum						
A text Book on Materials Science (Editor)	A text Book on Materials Science	National	2020	ISBN 978-81-950060-8-3	DKM College for Women (A), Vellore	Ryan Publishers, Trichy, Tamil Nadu, India
Tamil IllakiyathilArivialSinthanaigal (Editor)	Tamil IllakiyathilArivialSinthanaigal	National	2020	ISBN 978-81-950060-9-0	DKM College for Women (A), Vellore	Ryan Publishers, Trichy, Tamil Nadu, India

c) Number of papers in national/international conference-proceedings per teacher during the year

S. No	Department	Name of the Author	Title of the paper	Name of the conference	National / international	Year of publication	ISBN/ISSN number of the proceeding
1	Tamil	Dr. G. Sujatha	Sanga illakkiyavaralarum, puthumaicinthan aigalum	Kala thorumthami zhillakiyanglinvaralarumpudhumaicintha naigalum	International	2020	978-93-87946-72-9
			Marabutha mizhkavinar galum, kavithaigalum	Marabakavithaigaloruthiranaivu	International	2020	978-81-945795-0-2
2	Biochemistry	Dr. K. Shoba	Application of Bioinformatics to Nanotechnology	Proceedings Virtual international Conference on Advancement in Nanotechnology	International	2020	978-81-948129-1-3
			Importance of Microbes in Pharmaceuticals	Proceedings Virtual international Conference on Advancement in Nanotechnology	International	2020	978-81-948129-1-3
			Application of Nanotechnology in Cancer	Proceedings Virtual international Conference on Advancement in Nanotechnology	International	2020	978-81-948129-1-3

WOMEN DEVELOPMENT CELL

- ❖ Ensuring that education is not obstructed during the lockdown and to make the effective use of the time available during this period, Women Development Cell and IQAC of D.K.M. Online

quiz was conducted on 27th May 2020 to 30th May 2020. After attempting the quiz through online, if participants score above 50% e-certificate generated and sent to their registered mail id.

- ❖ Women Development Cell of D.K.M College for Women Organized a Webinar on 08.06.2020 from 11.00a.m to 12.30 p.m on the topic “Enhancing Immunity against Viral Infections - Covid19.” To organize this Webinar Women Development Cell conducted two Zoom meeting (28-05-2020 and 05-06-2020).
- ❖ Dr.C.Sheela Sasikumar, Head Clinical Research, Hycare Super Speciality Hospital, Arumbakkam,Chennai. The Resource Person presented her webinar to the participants on the importance of Immune Boosters, healthy foods which contains Proteins, Vitamins, Minerals etc and also explained about the precautions of Covid-19.

YOUTH RED CROSS ACTIVITIES

- ❖ Youth Red Cross of our college conducted YRC Sub Committee Meeting on 05.01.2021 at 11.00 am.
- ❖ Youth Red Cross of our college celebrated Youth Day on 12.01.2021 at 11.00 am.Dr.S.ThamaraiSelvi, Assistant Professor of Tamil, DKM College for Women, Vellore acted as resource person and delivered the special address on the theme “Swami Vivekananda and His Message for the Youth” in a very understandable manner to the students.
- ❖ Youth Red Cross of our college organized an awareness programme on the theme “Boosting Immunity” on 19.02.2021 at 11.00 am.Dr.Tamilarasi, Junior Resident, CMC Hospital, Vellore acted as resource person and delivered the special address on the theme “Boosting Immunity during Pandemic” in a very understandable manner to the students.
- ❖ Youth Red Cross of our college organized a special meeting on the theme “Conservation of Water Resources” on 19.03.2021 at 11.30 am.Dr.G.Shanthi, Assistant Professor of Tamil, DKM College for Women, Vellore acted as resource person and delivered the special address on the theme “Boosting Immunity during Pandemic” in a very understandable manner to the students. Nearly 100 students benefited out of this programme.

NATIONAL SERVICE SCHEME(NSS)

- ❖ On 16.7.2020 Online webinar was organized on the topic “Stress Management and Coping strategies during Covid-19. Dr P. SIVAJI RAO, MBBS., D.P.M., District Psychiatrist & Nodal

Officer, Walaja Head Quarters Hospital, Vellore District explained stress management and gave some clues on how to overcome the stress during the unfavourable condition. and Mr P.M. ELAVARASAN M.Sc (Psy) Psychologist Walaja Head Quarters Hospital, Vellore District demonstrated simple and useful techniques to overcome stress. More than 150 NSS Volunteers and the Public have Participated in this programme.

- ❖ International Yoga Day was celebrated on 21.6.20 along with the Yoga Club and Department of Zoology. A live online webinar was organized on the topic of Promotion of Health Through Yoga for the faculties of DKM College faculties. Mrs Anju Sakthivel, Yoga Guru, Cosmic Yoga Studios, Vellore explained about the Yoga postures and their benefits.
- ❖ On 20.8.2020, SadbavanaDiwas Pledge was taken by the NSS Volunteers through Google Meet. NSS Programme Officers and the Volunteers took the pledge.
- ❖ NSS Unit of DKMC observed the National Science Day on 15.10.2021 by taking a pledge through Google meet in the presence of the NSS Programme Officers. The Primary aim of this pledge is to sensitize the students about the Philosophies, Principles and ideas of Dr APJ Abdul Kalam. The students were motivated to be good citizens of India, thus contributing to the development of the country.
- ❖ Samathuva Pongal was celebrated by about 50 NSS volunteers along with the staff members in a traditional way by preparing 'Pongal' in mud pot with all religious traits and Performed special pooja.
- ❖ National Voter's Day is celebrated in India on 25th January every year to mark the Foundation Day of the Election Commission of India. As part of this occasion, on 25th Jan 2021, the Voter's Pledge was administered to the students, faculty members and non-teaching faculties of DKM College. A meeting was organized along with Election Literacy club of DKMC and this this program is headed by our District Collector and he created awareness among the newly enrolled voter.
- ❖ Republic Day was celebrated in our College. Dr.P.N.Sudha, Principal, hoist the flag and delivered a republic day address. 200 students and NSS volunteers participated in this programme.
- ❖ Eradication of the Untouchability pledge was taken by the NSS Programme officer and followed by the Volunteers on 29.01.2020. 50 NSS Volunteers have participated

- ❖ On 16.2.2021 Stress Management Programme was organized by NSS units of DKMC. Dr Ramya, M.B.B.S., MD., District Psychiatrist, Walaja Head Quarters Hospital, Vellore District delivered a talk on different types of Stress and their Management. Mr P.M. ELAVARASAN M.Sc (Psy) Psychologist Walaja Head Quarters Hospital, Vellore demonstrated simple psychological techniques to the volunteers.
- ❖ Laadli Short film was screened for the NSS Volunteers on 18.03.2021.
- ❖ On 18.03.2021 Folic Acid and Iron Tablets were distributed to the NSS Volunteers and anemic students to improve their health and created awareness about the Balanced Diet by the NSS Programme Officers.
- ❖ Tablet Albendazole were received from the Local Primary Health Centre and distributed to the NSS Volunteers and Students on 27.03.2021.

RED RIBBON CLUB (RRC)

- ❖ RRC member orientation programme was conducted on 18.02.2021. Mr. K. Rajendran, MSW, ICTC Counselor, Vellore and Mrs. Nagammal was acted as a Chief guest.

ENVIRO CLUB

- ❖ The Enviroclub of DKMC has started its 16th year of service to the students and college. Ms.R.L.Nabeesa of II B.Sc. Zoology is the student secretary of enviro club. An income of Rs 1,01,582 was generated through cattle breeding, milk production, cultivating vegetables and greens using organic manure. The club is supporting more than sixteen self help group women for the improvement of their economical and social status.

FINE ARTS ASSOCIATION

- ❖ The fine arts committee has conducted various competitions to the students to exhibit their talents like Pencil sketch, Mehndhi, Hair Do, Jewellery making, Vegetable and Fruit Carving, Song- Solo and Group, Kolam, Rangoli, Nail Painting and Dance- Solo and Group from 15.02.2021 to 20.02.2021. Many students participated enthusiastically in various competitions.
- ❖ Due to Pandemic situation Fine arts day celebration was conducted on 22.02.2021 at 11.00 am in D-Block conference hall with only the winning participants. The chief guest was our principal mam Dr.P.N.Sudha and she addressed to the students and distributed the prizes to the winners of various Competitions.

YOGA AND MEDITATION CLUB

- ❖ Yoga and Meditation club of DKMC was continued for this academic year 2020-21. 120 students from various departments of aided and unaided stream were practiced in this academic year. The classes are conducted from 18.02.21 to 03.03.21 as 12 days programme - Foundation course by SKY Yoga Azhiyar through ManavalaikalaiMandram trust, Sankaranpalayam, Vellore.
- ❖ International Yoga Day was celebrated on 21st June every year. This year due to pandemic situation we conducted International Yoga day in online mode only staff were participated.
- ❖ AzhiarArivuthirukoil was arranged for world Guinness record on spiritual meditation of involving 1 Lakh volunteers on 28.03.2021 in that program we made our student to participate and they received online certificate. We feel that this is our success in the conduction of Yoga and Meditation Club.

CITIZEN CONSUMER CLUB (CCC)

- ❖ Consumer Awareness meeting was conducted on 16.02.2021 on the topic of consumer rights and responsibilities. Thiru T. Basherruddin, M.A, Consumer Activist, Founder president of consumers welfare protection society of pernambut, Gudiyatham and Mr. K.K. Kumeresan,LLB, President-NCPA, State Joint Secretary-FEDCOT has acted as a Chief guests. Almost 200 beneficiaries were benefited.

CAREER GUIDANCE AND PLACEMENT CELL

- ❖ One Day Webinar on “TOT UP ASSESS TO THE ACADEMIC CONCERT OF THE GRADUATES” on 10.07.2020 through Google meet. The speaker gave a valuable lecture on the topic “Employability Skills required for Graduates”. He shared important employability skills for graduates regardless of what degree they study. He also spoke on how recruiters assess their skills
- ❖ The Placement Cell in collaboration with Sri Marg Human Resource Private Limited organizes placement drive for 3 days from 03.02.2021 to 05.02.2021. Sri Marg Human Resource Private Limited is a manpower supplying for the various companies in Chennai like M/S Flextronics Technologies Private Limited, Rising Stars Mobile India Private and so on, selected students

will be placed with the gross salary of 10, 200/- per month. In the drive around 190 students participated and 99 got their offer letter.

- ❖ The proprietor of V Chetty Radhakrishna Chetty Jewel Craft, Vellore, Mrs. Viyalakshmi Narayan offered a campus placement for our students. Following the discussion, the placement officer conducted an interview on 22.03.2021 and chose 27 students out of 60 students to be placed in V Chetty Radhakrishna Chetty Jewel Craft, Vellore.
- ❖ Career guidance Webinar on “Forging New career Paths for Social Good - Building Skills for the Future, Exploring Non- Traditional Career Paths & Creating Resilient Entrepreneurs” Organized by Placement cell in association with Technology & Livelihood Partner - Jeevitam and took place in online mode through zoom call and YouTube live on 2nd April 2021 in the presence of Dr.A. Amirthavali, Associate Professor and Head, Department of History and Placement coordinator.
- ❖ AGS Health Service in association with D.K.M. College conducted a campus drive presentation for the students on 21.04.2021 at 10.00 a.m& 2.00 p.m.
- ❖ The session started with few brain storming activities, and then Mr. Sai Vainay HR and his team explained about their company, placement policy and the nature of job. Then he also explained about the selection process of the candidates. More than 200students benefitted out of this programme.

EQUAL OPPURTUNITY CELL

- ❖ Equal Opportunity Cell of our college organized a webinar through online on the theme “Women Harassment” on Wednesday, the 24 March 2021 at 10.30 pam.
- ❖ Mrs.R.Radhika, Advocate and Guest Lecturer in Academy for Prisons and Correctional Administration,Vellore. Acted as resource person and delivered the special address on the theme “Women Harassment” in a very understandable manner to the students. In her speech she highly focused on the legislative Act in India that seeks to protect the women from sexual harassment at their place of work.

ANTI RAGGING CELL

- ❖ Anti-Ragging cell of DKM College, Vellore organized a meeting on 5.3.2021 at Kaveri hall from 12.30 – 2.00 pm. Members present were all the Heads of the Department, Student Representatives, Student chairman and Student secretary, Union office bearers and anti-

Ragging cell Co-Ordinator Dr.L.Umamaheswari , Assistant professor and Head, Department of Botany gave welcome address. About 200 students participated and got benefitted.

EXTRA CURRICULAR AND CO-CURRICULAR ACTIVITIES OF THE DEPARTMENT
Details of Extra Curricular Activities & Co-Curricular Activities (Students Participation in the Programmes Outside the College)

A. STUDENT'S PARTICIPATION

DEPARTMENT	QUIZ AND WEBINAR PARTICIPATION BY STUDENTS
BIOCHEMISTRY	360
CHEMISTRY	56
MICROBIOLOGY	23
MATHEMATICS	330
COMMERCE AND COMMERCE WITH COMPUTER APPLICATIONS	490
FOODS AND NUTRITION	28
MANAGEMENT STUDIES	64
PSYCHOLOGY	22
TAMIL	101
BIOTECHNOLOGY	60
COMPUTER SCIENCE	100
HISTORY	205
ZOOLOGY	330

B. FACULTY PARTICIPATION

Participation of our Staff members in Faculty improvement programme (Refresher course/Orientation Course)

S.No	Date	Name and Designation	Details of Orientation/Refresher/FDP
Department of Chemistry			
1.	Jan 2020- Apr 2020	Dr.S.Santha Lakshmi	Waste to Energy conservation (8 weeks FDP)

	8 weeks	Assistant Professor of Chemistry	
2.	01.06.2020 to 03.06.2020.		Three Days Faculty Development Programme on “Advanced Molecular Chemistry, ArulmiguDhandayuthapani Swamy Thirukkoil, H.R &C.E Dept A Government Aided College -Affiliated to Madurai Kamaraj University, Madurai.
3.	05.06.2020		Online Faculty Development Programme on Governance and Best Practices organized by DKM college for Women, Vellore
4.	04.06.2020 - 08.06.2020		Five days online course on "Chemistry in Everyday life" Jamal Mohamaed College, Trichy
5.	25.04.2020	Dr. N. Dhanam	FDP-FDP on Gchem paint-DKMC
6.	06.07.2020-10.07.2020	Assistant Professor of Chemistry	National Level 5 Days Faculty Development Program On "Recent Advances in Applied Chemistry", Advanced trends in Polymer Chemistry-NIT Warangal) S&H, NSRIT, Visakhapatnam
7.	21.07.2020		Participated in RRC Orientation Program-C. Kandaswami Naidu College For Women Cuddalore.
8.	22.06.2020 to 28.06.2020		A 7 days Science Leadership Workshop-Central University of Punjab, Bhadhinda.
9.	10.06.2020 to 13.06.2020		4 days Webinar series on chemistry, Queen Mary's College
10.	17.06.2020 to 20.06.2020		4 days' workshop on Solution to Joint CSIR – UGC NET Chemical Science Problems' Muthurangam Government Arts College
11.	24.06.2020		Webinar on “Electroanalytical Techniques” American College, Madurai.
12.	01.07.2020-02.07.2020		Global submit of advanced trends in material chemistry (GSATMC-2020) Cauvery College for Women, Trichy.
13.	05.07.2020		Webinar on "Ailment Therapy: Medicinal & Traditional" Dr.Zakir Husain College, Ilayangudi - 630 702, Sivagangai District
14.	05.07.2020		Webinar on Sustainability in Product Design Deogiri Institute of Engineering and Management Studies, Aurangabad

15.	19.07.2020		Webinar on Ailment therapy: "Medicinal and Traditional ", Dr.Zakir Husain College, Ilayangudi, Sivagangai District
16.	21.07.2020		Participated in RRC Orientation Program, C. Kandaswami Naidu College For Women Cuddalore
17.	27.07.2020		Webinar on Nano vs Corona, Shanmuga industries of arts and science college, Thiruvannamalai.
18.	16.07.2020		Webinar on Stress Management and coping strategies during covid -19, D.K.M College, Vellore-1,
19.	Jan 2020- Apr 2020 8 weeks	Dr.S.Sashikala Assistant Professor of Chemistry	Waste to Energy conservation (8 weeks FDP)
20.	07.05.2020 to 09.05.2020		3 Days online course on Biomedical Nanotechnology
21.	16.05.2020 & 17.05.2020		FDP"project proposals for funding agencies (UGS stride & ICSSR impress): preparation and submission protocol"
22.	25.05.2020 to 31.05.2020		7 days webinar series FDP on "Beyond Academic Excellence -a Reality Show"
23.	30.05.2020		Weibnar on application of G-Tools
24.	02.06.2020 to 06.06.2020		5 Day online FDP on "Advanced Materials & their applications"
25.	02.06.2020-06.06.2020		FDP on advanced materials and their applications
26.	29.04.2020-30.04.2020	Dr. R. Arunadevi Assistant Professor of Chemistry	Two days Online refresher course on EDUCATION 4.0-FUTURE OF LEARNING-Anand Institute of Higher Technology, Chennai
27.	27.04.2020-01.05.2020		FDP included a demonstration cum hands on exposure in PHP and MYSQL-KMG college, Kudiyatham
28.	05.05.2020-09.05.2020		Vellammal Engineering College-Chennai
29.	05.06.2020		Online Faculty Development Programme on "Governance and Best Practices"- D.K.M.College for Women, Vellore
30.	10.06.2020		Online FDP-Nirmala College for Women, Coimbatore
31.	17.06.2020-19.06.2020		Three days national level FDP Webinar on "Challenges and Opportunities in

			Interdisciplinary Science Research-SFR College, Sivakasi
32.	26.06.2020-24.07.2020		4 weeks induction programme (FDP) Teaching learning centre, Ramanujam College, New Delhi
33.	01.06.2020 to 03.6.2020.	Dr.T.Gomathi Assistant Professor of Chemistry	Three Days Faculty Development Programme on “Advanced Molecular Chemistry, ArulmiguDhandayuthapani Swamy Thirukkoil, H.R &C.E Dept A Government Aided College -Affiliated to Madurai Kamaraj University, Madurai
34.	June 2020		A one week AICTE sponsored online short term training programme on synthesis characterization and its applications of nano materials, Jawaharlal Nehru Technology University, Hydrabed
35.	08.06.2020		Future of Examinations Blooms Taxonomy and multiple assessment tools. Conducted by GTN Arts College, Dindugul.
36.	18.06.2020 to 24.6.2020		One Week Faculty Development Programme on "Research Methodology: Tools and Techniques", organised by the Department of History, M.V.Muthiah Government Arts College for Women, Dindigul
37.	29.06.2020 to 03.07.2020		Online International Faculty Development Programme on “Environmental Sustainability & Green Energy” Electrical Engineering, Department, GOVINDRAO WANJARI COLLEGE OF ENGINEERING & TECHNOLOGY, Nagpur
38.	30.05.2020 to 03.06.2020		5 day online Faculty Development Programme“Evolution from Offline to Online Teaching“Evolution from Offline to Online Teaching
39.	05.06.2020 to 11.06.2020		One week online International Faculty Development Programme on “The Role of EDUTECH in Classroom Teaching and Learning” organised by the CAS in Linguistics, Annamalai University
40.	30.06.2020 to 04.07.2020		Online Faculty Development Programme on “Inclusive Procedures and Processes in Assessment and Accreditation by NAAC” organized by the IQAC of St. Joseph’s College, Tiruchirappalli

41.	05.06.2020	Mrs.J.Saranya Assistant Professor of Chemistry	FDP-Governance and Best Practices, D.K.M. College for women(Autonomous), Vellore
42.	27.06.2020 to 29.06.2020		FDP-Fuzzy Clustering Techniques and its Applications, St.Mother Theresa Engineering College, Chennai.
43.	02.06.2020 to 06.06.2020	Dr.D.Shakila Assistant Professor of Chemistry	FDP-Advanced Materials and their Applications
44.	03.06.2020		FDP-Evolution from offline to online teaching, Sathish Pradhan Dhyanasadhana college, Pune
45.	05.06.2020		FDP-Governance and Best Practices, D.K.M. College for women(Autonomous), Vellore
ENGLISH			
46.	31.08.2020	Mrs.V.P.Gayathri Assistant Professor of English	FDP on Dynamics of E-learning and strategies; Skill Oriented Tools in 21st century- BonamVenkataChalamayya Engineering College(Autonomous), Andhra Pradesh
47.	18.06.2020 to 24.06.2020		FDP on Research Methodology Tools and Techniques- M.V. Muthiah Government Arts College For Women, Dindigul
48.	06.07.2020 to 12.07.2020	Mrs. M. Gayathri Assistant Professor of English	FDP on Being Super Teacher- Bannari Amman Institute of Technology
49.	31.08.2020		FDP on Dynamics of E-learning and strategies; Skill Oriented Tools in 21st century- Bonam Venkata Chalamayya Engineering College(Autonomous), Andhra Pradesh
50.	29.06.2020 to 01.07.2020		FDP on E-learning Management System- Yogi Vemana University, Andhra Pradesh
51.	13.07.2020 to 18.07.2020		FDP on Futuristic Trends of Language and Literature-Impact on 21st Century Learners- SRM Institute of Science and Technology, Chennai
52.	10.06.2020 to 12.06.2020		FDP On Innovative Strategies in English Language Teaching- St. Joseph's College of Engineering, Chennai
53.	04.07.2020		FDP on Online teaching and Learning Tools- series II- Sarah Tucker College(Autonomous), Thirunelveli
54.	18.06.2020 to 24.06.2020		FDP on Research Methodology Tools and Techniques- M.V. Muthiah Government Arts College For Women, Dindigul

55.	10.06.2020		FDP on Scholarly Writing and Publishing Sources and Strategies- Nirmala College for Women (Autonomous), Coimbatore
56.	18.05.2020 TO 03.06.2020	Dr M.Manimozhi Assistant Professor of English	Online FDP Managing Online Classes and Co Creating Moocs 2.0,University Of Delhi. Teaching Learning Center Ramanujan College.
57.	06.01.2021 TO 19.01.2021		Pondicherry University English Refresher Course
58.	19.01.2021 TO 23.01.2021		Online Environmental Sustainable and Research Ethics, UGC Stride Sponsored Five Days Training Programme By Avinashilingam Institute of Home Science and Higher Education
59.	11.06.2020 to 13.06.2020		Mrs. S. Indragandhi. Assistant Professor of English
60.	10.06.2020 TO 12.06.2020	FDP On Innovative Strategies In English Language Teaching By St.Joseph's College Of Engineering	
61.	28.06.2020	FDP International Webinar On The Topic: Introduction To E-Learning And Its Challenges By Patrician College Of Arts And Science	
62.	18.06.2020 TO 24.06.2020	FDP Research Methodology: Tools And Techniques Conducted By M.V.Muthiah Government Arts College For Women	
63.	16.06.2020 TO 23.06.2020	Managing The Unlock Down In India By S.A.Engineering College	
64.	11.07.2020	FDP Decode Nta Net AnnaiVailankannai Arts And Science College	
65.	17.06.2020	Mrs. Ramya. D Assistant Professor of English	
66.	17.06.2020		FDP on Strategies in English Language Teaching M. M. E. S.Women's college, and Melvishaaram
67.	18.06.2020		FDP on Teaching English language and professional skills in the classroom by Kings' college of Engineering
68.	18.06.2020		International FDP on Introduction to E Learning and it's challenges by

			Indian Academy
69.	18.06.2020-24.06.2020		One Week FDP on Research Methodology :Tools and techniques by M.V.MUTHIAH Government ArtS College for women, Karaikudi
70.	05.06.2020-09.06.2020		5 days International Faculty Development Program on Emerging Research Areas in Engineering by SRM Institute of science and technology, and Chennai
71.	05.06.2020-09.06.2020	Mrs. Arivazhagi. E Assistant Professor of English	5 days International Faculty Development Program on Emerging Research Areas in Engineering by SRM Institute of science and technology, and Chennai
72.	10.06.2020 TO 12.06.2020		FDP ON INNOVATIVE STRATEGIES IN ENGLISH LANGUAGE TEACHING by ST.JOSEPH'S COLLEGE OF ENGINEERING
73.	18.06.2020-24.06.2020		One Week FDP on Research Methodology :Tools and techniques by M.V.MUTHIAH Government ArtS College for women, Karaikudi
74.	19.06.2020		FDP on Strategies in English Language Teaching
75.	28.06.2020		FDP on International Webinar - Introduction to e-learning and its challenges
TAMIL			
76.	03.12.2020 – 09.12.2020	Dr.G.Shanthi	PattamalAzhagesan Arts and Science College, Athur, Chengalpattu Sangam Literary and Scientific Research Center
77.	30.06.2020 – 04.07.2020	Dr.G.Shanthi	St. Joseph's College (Autonomous) (IQAC) Tiruchirappalli
COMMERCE			
78.	2020-21	Dr.T.Bharathi	UGC-HRDC - Refresher Course on Management and Commerce
79.	2020-21	Dr.G.Bhavani	Online Induction Training/Orientation Programme -MHRD-sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT)
80.	2020-21	Dr.K.Vinithi	Online Induction Training/Orientation Programme -MHRD-sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT)

Zoology			
81.	14.05.2020 - 20.05.2020	Dr.V.Rekha	Online Short Term Course on E content Development conducted by UGC-HRDC, University of Gujarat
82.	28.06.2020 - 30.06.2020	Dr.V.Rekha	Online Workshop on Online Course Design, Development and Delivery conducted by UGC-HRDC, University of Hyderabad
83.	25.07.2020-10.08.2020	Dr.V.Rekha	Online FDP on Managing Online Classes and Co Creating Moocs 2.0, University Of Delhi. Teaching Learning Center Ramanujan College MHRD-sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNTT)
Biochemistry			
84.	22 nd - 29.4.2020	Dr.V.Prabha Assistant Professor of Biochemistry	7 Days FDP Programme on “Cell Designer” Conducted by IIT Bombay, funded by MHRD, India.
85.	1.5.2020 – 1 Day		FDP on “Research activities in present world understanding interdisciplinary and International approaches” Conducted by Sacred Hearts College, Tirupathur.
86.	24.5.2020		Online Course on “Stress Management” offered by Guru Nanak College, Chennai.
87.	25.5.2020		Online Course on “Emotional Intelligence” offered by Guru Nanak College, Chennai.
88.	25.6.2020 – one day	Dr.B.Hebsibah Elsie Assistant Professor of Biochemistry	Faculty Development Program on “work Life Balance during Post covid-19” Organised by Department of B.Com by Grunanak College –Chennai
89.	24.6.2020 to 30.6.2020 (7 days)		Faculty Development Program on “Application of new materials in emerging field” organized by department of physics, Sathyabama institute of Science and Technology, Chennai
90.	11.7.2020 (one day)		Faculty Development Program on “Decode NTA NET”
91.	03-06-20 (one day)		Dr.S.Asha Assistant Professor of Biochemistry
92.	29.06.2020 to 04.07.2020 (5 days)	FDP-Nurturing Research& Innovation in higher education Institutions organized by Dr.M.G.R.Educational and Research Institute	

93.	6 to 10/06/20		FDP- Domestic and industrial water and waste water treatment organized by BV Raju Institute of Technology, Medak
94.	8/06/20 & 9/06/20		National level FDP organized by K.M.G. colleg of arts and science, Vellore
95.	27 to 01.08.2020 (5 days)		FDP-Road Map to hybrid research II organized by Dr.M.G.R.Educational and Research Institute
96.	15.05.2020 to 11.06.2020	Mrs.G.Nithya Assistant Professor of Biochemistry	Faculty Development Program on Bionanotechnology
97.	30.5.2020 – 3.6.2020 – Five days	Dr.K.Shoba Assistant Professor of Biochemistry	Five Days Faculty Development program on Evolution from offline to online Teaching conducted by Sathish Pradhan Dnyanasadhana college, Thane.
98.	5.6.2020 – one day		Governance and Best Practices by Dkm College for Women(Autonomous)
99.	8.6.2020 – 9.6.2020 – Two days		National Level Faculty Development Programms conducted by K.M.G College of arts and Science, Gudiyattam
100.	12.6.2020 – 16.6.2020 – Five Days		Five Day online Faculty Development Program on "Philosophy for Happy Life"Conducted by satya institute of technology and management gajularega, vizianagaram, Andhra Pradesh.
101.	22.6.2020 – 28.6.2020 – One week		One Week International Faculty Development Program on Post Pandemic computational Science Challenges and OppurtunitiesOrganised by VIT Bhopal University and Manjrasoft Pvt Ltd, Australia.
102.	29.6.2020 – 30.6.2020 – Two days		Pedagogical Tools for Effective Online Teaching by islamiah women’s arts and science college ,Vaniyambadi
103.	1.7.2020 – 3.7.2020 – Three Days		National Level Faculty Development Programme on “Paradigm Shift in Teaching and Learning“ Organized by the Department of Commerce,St. Joseph’s college of arts and science for women sipcot, Mookandapalli,Hosur
104.	6.7.2020 – 11.7.2020 – Five Days		Role of Computational Intelligence I Society conducted by Department of Computer Science and

		Engineering, Bharati Vidyapeeth's College of Engineering, New Delhi.
105.	6.7.2020 – 10.7.2020	Five Days Faculty Development Programs organized by School of computer Science, KPR college of arts science and Research, Coimbatore.
106.	11.7.2020 – One Day	“Decode Nta Net” Conducted by Annaivailankanni arts & science college, Pudukkottai Road, Thanjavur
107.	13.7.2020 – 17.7.2020 – Five Days	One Week International Faculty Development Program on “Recent Trends in Computer Science & IT” in Association with International Association of Professional & Fellow Engineers, Delaware, USA Indo-UK Confederation of Science, Technology & Research LTD., London, UK International Accreditation Council for Conference & Professional Excellence, Delaware, USA
108.	13.7.2020 – 17.7.2020 – One week	Five Days Faculty Development programme on “Road Map to Hybrid Research” Conducted by Department of Biotechnology, Dr. M.G.R Educational and Research Institute, Chennai.
109.	13.7.2020 – 20.7.2020 – One week	One Week Faculty Development Program on Essential to Blended Learning conducted by Department of Information Technology, Dr.M.G.R Educational and Research Institute, Chennai.
110.	21.7.2020 – 25.7.2020 – One Week	National Level One Week Confederated Online Faculty Development Program on “Orienting Applications & Conceptualized Aspects of Sciences & Humanities” organized by Dept. of Humanities & Sciences, Balaji Institute of Technology & Science, Lakshapally, Narsampet, Warangal Rural.
111.	18.08.2020 – One Day	Online Teaching Tools organized by Internal Quality Assurance Cell (IQAC), Rajah serfoji Government College, Thanjavur.
112.	8.8.2020 - 14.8.2020 – One Week	“One Week Online National Faculty Development Program on E-Contents and ICT Tools for Innovative and Effective Teaching & Learning Process” Organized by

			Roorkee College of Management & Computer Applications, Roorkee from 8 August to 14 August,
Computer Science and Application			
113.	28.05.2020 to 03.06.2020	Mrs.B.Arulmozhi Assistant Professor of Computer Science	7 days online course on Embedded C Programming for Microcontroller, JP College of Arts and Science, Tenkasy
114.	05.06.2020		National Level online Faculty Development Programme on Innovation, Incubation & Entrepreneurship ,PG Department & Research Centre in Commerce, RajapalayamRajus' College, Rajapalayam
115.	08.06.2020 to 09.06.2020		National Live Webinar & Faculty Development Programme on "Outcome based Education for Professional Programs" G.H. Rasoni University, Amravati, School of Commerce and Management
116.	11.06.2020 to 13.06.2020		Three days Faculty Development Program On "Emerging Trends in Data AnalytIB.Sc CS& Cyber Security" Islamiah Women's Arts and Science College
117.	08.06.2020 to 15.06.2020		7 days FDP SNMV College of Arts and Science, Coimbatore
118.	16.06.2020		Online Course on Front End Web Development – HTML for beginner
119.	17-06-2020 to 23-06-2020		Seven day Online International Faculty Development Programme titled "Leadership Excellence" Department of Corporate Secretaryship and Information Systems Management, Justice Basheer Ahmed Sayeed College for Women (Autonomous), Chennai-600 018
120.	22.06.2020 to 26.06.2020		5 days FDP on CYBERSECURITY Department of Computer science and engineering , SRM Institute of Science and Technology, Ramapuram
121.	23.06.2020		National Level FDP on "Build your future in Machine Learning and Artificial Intelligence" PG Department of Computer Science and Applications, IslamiahWomens Arts and Science College, Vaniyambadi

122.	02.07.2020 to 08-.07.2020	Online National Level FDP on Moodle Learning Managementsystem , Department of Education &MathematIB.Sc CS Education in Collaboration with Internal quality Assurance Cell of the Institution, Institute of Advanced Study in Education
123.	06.07.2020 to 11.07.2020	One Week Short Time Certificate Program on Computer Network, Department of computer science and Engineering , Aarasu College
124.	11.07.2020	National Level Faculty Development Programme on “Outcome Based Education (OBE)”, PG and Research Department of Commerce, Cauvery College for Women (Autonomous), Tiruchirappalli, TamilNadu
125.	20.07.2020 to 24.07.2020	Online Workshop on "Feature Analysis of Assessment and Accrediation Process of NAAC", Secred Hearts College, Thirupattur
126.	27.07.2020 to 01.08.2020	6 Days International FDP on " Perspective of Artitificial Intelligence Applications" St. Joseph Institute of Technology
127.	29.07.2020 to 01.08.2020	4 days Faculty Development Programme, Rathnam College of Arts and Science, Coimbatore
128.	27.06.2020	Online training programme on Google classroom Standing committee for MES Self financing and parallel college.
129.	10.07.2020 to 11.07.2020	Two - Day National Level E-Workshop on “Understanding OBS Studio &Streamyard for E-Content Creation and Live Streaming” Dr.M.G. R Research and Education Institution, Faculty of Humanities and Science, Adayalampattu Phase -II campus
130.	22.07.2020 to 24.07.2020	Three days FDP Programme on EC8761 an Advanced Laboratory Programme , Department of Electronic and Communication Engineering, St.Joseph Institute of Technology
131.	05.08.2020	Workshop on Building Culture and Capacity of Innovation, St. Joseph Institute of Technology

132.	1.06.2020 to 07.06.2020	K.AYESHA Assistant Professor of Computer Science	One Week Online Faculty Development Programme on “Machine Learning”, Auxilium College (Autonomous)
133.	12.06.2020 to 17.06.2020		Five days faculty development programme on Arduino, Manakula Vinayagar Institute of technology
134.	30.06.2020 to 18.08.2020		One week National level STTP on Emerging Technologies, Surendra institute of Engineering and Management in association with IBM pvt ltd
135.	01.07.2020 to 03.07.2020		National Level Faculty Development Programme on “Paradigm Shift in Teaching and Learning”, St. Joseph’s college of arts and science for women
136.	11.07.2020		National Level Faculty Development Programme on “Outcome Based Education (OBE)”, Cauvery College for Women (Autonomous), Tiruchirappalli
137.	06.06.2020		Mrs. S. Shanthi Assistant Professor of Computer Science
138.	11.06.2020 - 13.06.2020	Online FDP on "Machine Learning and its Practical Approach" Geetanjali Institute of Technical Studies, Udaipur (Raj)	
139.	10.06.2020 - 16.06.2020	One Week International FDP on "Recent Trends in Computer Science and its Research Perspectives", Marudhar Kesari Jain college for Women, Vaniyambadi	
140.	23.06.2020 - 27.06.2020	Five Days International Online FDP on "Emerging Trends in Information Technology", Karpagam College of Engineering, Coimbatore	
141.	13.07.2020 - 14.07.2020	Workshop on "Spring Boot with MongoDB Connectivity", Eswari College of Engineering, Chennai	
142.	17.07.2020	Mrs. P. Ramya Assistant Professor of Computer Science	

143.	27.05.2020	Dr.R.Hamsaveni Assistant Professor of Computer Science	FDP On SQL & Python, KMG College, VELLORE
144.	06-07-2020		FDP on Research perspective in FC
145.	27-07- 2020 TO 01-08-2020		Training program on MATLAB
MANAGEMENT STUDIES			
146.	29.05.2020 to 01.06.2020. Bharathidasan college of Arts and science, Erode.	V.S.Palaniammal Assistant Professor of Management Studies	“ Start up business & Innovation of new ideas “
147.	08.06.2020 – 09.06.2020. K.M.G College of Arts and science		National level FDP
148.	14.06.2020. Seshadripuram Evening College, Bengaluru		FDP (online mode) on “ Financial Assets and its Report under IFRS “
149.	22.06.2020 . Prince shri Venkateshwa ra Arts and Science college		FDP on “ E – Pathshala : A Platform for online Learning “
150.	01.06.2020		A.Kalaiselvi Assistant Professor of Management Studies
151.	15.06.2020 to 21.06.2020	A.Kalaiselvi Assistant Professor of Management Studies	DAYANANDA SAGAR UNIVERSITY, School of commerce & Management studies- work shop on “Data Analysis and Interpretation using SPSS”
152.	2.07.2020, 3.0 7.2020		SITAMS college- Workshop on Research Methodology using R
153.	04.07 2020		SITAMS college- “INDUSTRY INSIGHTS ON Post covid19-RECRUITMENT”
154.	27.07.2020 to 02.08.2020		Periyar University PG Extension Centre, Dharmapuri-

			Faculty Development Programme on “A Paradigm Shift in Social Sciences Research”
155.	29.07.2020 & 30.07.2020		Vaniniketan Institute of Management Studies- E-Workshop on “Data Analysis Using SPSS & R for Novice Scholars”
156.	20.12.2020		MGNCREH-Workshop on Rural entrepreneurship Development cell Action plan
157.	11.05.2020 to 15.5.2020	Dr.E.Veronica Assistant Professor of Management Studies	Five Days FDP on Evolution of Teaching Learning Process - Post Covid 19. Bharath Institute of Higher Education and Research
158.	13.05.2020 to 15.5.2020		Two Days Web Talk On Future Entrepreneurship & Employment Opportunities Nehru Institute of Technology
159.	13.05.2020		Virtual Assessment Programme on Research Methodology Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya
160.	16.05.2020		Research skills Enhancement University of technology
161.	21.05.2020		National Level FDP on "Strategies to Revive the Economy for Better Performance" Post Covid19 B.N.M Degree College, Bangalore.
162.	21.05.2020 & 22.05,2020		Virtual Conference on "Rediscovering You For Post COVID Success" Department of Business Administration Auxilium college
163.	25.05.2020		Intellectual property rights Karpagavinayaga college of engineering and technology
164.	29.5.2020		FDP Webinar on "Online Learning Tools Post Covid 19" Sri Chandrasekharan Saraswathi Viswa Mahavidhyalaya
165.	29.5.2020 to 31.5.2020		E- Conclave on "Managers of Future. Vivekananda Global Iniversity, Jaipur
166.	30.05.2020 to 03.5.2020		Five Days FDP on " Evolution from Offline Teaching To On line. Sathish Pradhan Dnyanasadhana College Thane.
167.	01.06.2020		Tallysolutions-

			FDP-GST using Tally
168.	01.6.2020 - 07.6.2020		One week International FDP on "Synergia to revitalise, Reform and Refresh Ourselves as Agents to Ensure Quality Education" Auxilium College in Association with VIT AP
169.	04.06.2020		"Business Analytics Way Forward - Educationa and Industry" R.V. Institute of Management, Bangalore.
170.	04.06.2020 – 07.06.2020		4 Days National Level EDP on Self Discover the Journey of an Entrepreneur "A Session for A Mission" Bharathidasan College for Arts and Science, Erode
171.	06.06.2020		"Naional E - FEP on Business Accounting in ERP Software" K.L.E.Society'sS.Nijalingappa College, Bengaluru.
172.	06.06.2020		FDP on " Tools to create E- Learning, Interactions and Assessment" Government Arts College, Melur, Madurai.
173.	06.06.2020		National Symposium on "Supply Chain Management in the Crisis Pandemic - Towards New Mandates" Seshadripuram College
174.	08.06.2020		Two Days Faculty Development Programme KMG College of Arts and Science, Gudiyatham
175.	21.06.2020		Contours of Writ Jurisdiction KLE Societys College of Law, Navi Mumbai
176.	22.06.2020 to 28.06.2020		1st virtual National Faculty Development Programme on "Teaching Pedagogy And Research Skills Post "JEMTEC School of Law, Greater Noida
177.	23.06.2020		Protecting Online Informational Privacy KLE Societys College of Law, Navi Mumbai
178.	04.07.2020		"Research Challenges in Natural Language Processing" Avinashilingam for Home Science and Higher Education For Women, Coimbatore

179.	03.07.2020 to 05.07.2020		FDP on "Enhancing Educational Practices to Meet Industrial Challenges Noorul Islam Centre for Higher Education
180.	06.07.2020		FDP on "Technology Assisted Teaching and Virtual Learning through ICT Tools Jagan Institute Of Management Studies
MATHEMATICS			
181.	26.06.2020- 24.07.2020	Dr.N.Nithyapriya Assistant Professor of Mathematics	Online Induction Training/Orientation Programme-MHRD-Sponsored Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching(PMMMNMTT)- Teaching Learning Centre, Ramanujan College University of Delhi
MICROBIOLOGY			
182.	28.06.2020	Dr. A.Vidhya Assistant Professor of Microbiology	FDP On Introduction to E learning and its challenges conducted by Patrician College of Arts & Science, Chennai
183.	05.06.2020		FDP Webinar on "Governance and Best Practices",
184.	05.06.2020	Mrs. A.Barathi Assistant Professor of Microbiology	FDP Webinar on "Governance and Best Practices",
185.	05.06.2020	Dr. J.Hemapriya Assistant Professor of Microbiology	FDP Webinar on "Governance and Best Practices",
186.	05.06.2020	Ms. R.Sangeetha	FDP Webinar on "Governance and Best Practices",
PHYSICS			
187.	18.05.2020- 03.06. 2020	Dr.C.Vinothini Assistant Professor of Physics	Two Week FDP Managing online classes and Co-creating Mooc's 2.0
188.	02.07.2020- 17.07.2020		Two Week FDP on Advance Concepts for Developing Moocs
189.	21.07.2020- 27.07.2020		Short term Course on Outcome Based Education Curriculum design ,Teaching ,Learning and Assessment Strategies
190.	25 .07.2020 – 10.08.2020		Two Week FDP on Managing Online Classes and Cocreating MOOC 's 3.0
191.	12.08.2020- 25.08.2020		Two Week FDP on Quantitative Methods for Data Analysis
192.	08.10.2020- 22.10.2020		Refresher Course on Changing Perspectives in Pedagogy
193.	08.06.2020 to 12.06.2020		Five days FDP on Green Energy and Renewable Energy for Physics and Electronic teacher

194.	27.11.2020-10.12.2021	Dr.N.Jabena Begum Assistant Professor of Physics	UGC sponsored Online Refresher Course in PHYSICS
195.	18.07.2020-22.07.2020		Five days FDP organized by Velammal Institute of Technology, Chennai
196.	21.08.20 - 27.08.20		Five days FDP on Jeppiaar Engineering college, Chennai
PSYCHOLOGY			
197.	01.06.2020 to 05.06.2020	Arthi .D Assistant Professor of Psychology	Short term course on "OBE"- NITTR Chandigarh
198.	02.06.2020 to 07.06.2020		Week Online Faculty Development Programme (FDP) On Modern Teaching, Evaluation and Research Methods (MTERM)- Mahavidyalaya, Vaijapur, Dist. Aurangabad (MS)!!,strider and UGC
199.	08.06.2020		Online National Faculty Development Programme on "Future of Examinations: Blooms Taxonomy and Multiple Assessment Tools"- GTN ARTS COLLEGE (Autonomous), Dindigul– 5
200.	09.06.2020		Online Faculty Development Programme Series on pedagogy- Mary Matha College of Arts and Science,
201.	15.06.2020 to 19.06.2020		National Level Online FDP Scilab - St. Peter's Engineering College (An UGC Autonomous Institution), Hyderabad, Telangana
202.	18.06.2020 to 24.06.2020		International FDP on "Research methodology-Tools and techniques"- Department of History,M.V.Muthiah Government arts college for women,Dindugul
203.	26.06.2020 to 28.06.2020		Online Training Programme on "Counselling as professionand effective training practices "- Department of Psychology,BDU
204.	30.06.2020		Online Faculty Development Programme (FDP) on Inclusive Procedures and Processes in Assessment and Accreditation by NAAC- IQAC of St. Joseph's College (Autonomous), Tiruchirappalli

Academic Council Members 2020-21

- ❖ Dr.P.N. Sudha, Principal and Dr. M. Nagarathinam, Head and Associate Professor of Chemistry are members of the Academic Council, Thiruvalluvar University, Vellore.

- ❖ Dr. M. Nagarathinam, Head and Associate Professor of Chemistry is the Executive Member of RUSAC.

16. Any External/Internal evaluation done during the year. If, so give report

Yes Both Internal and External audit were done

INTERNAL ACADEMIC AUDIT REPORT

Three days Internal Academic Audit was held on 25.2.2021, 26.2.2021 and 27.2.2021.

Internal Academiaudit Process

- The Internal audit was conducted for Three days inorder to have detailed checking of the Records and reports maintained by the departments.
- The was conducted to check the records for Five years from 2016-17 to 2021
- The departments were instructed to maintain 25 different registers/ records/ reports as required by the NAAC guidelines.
- The checking work was divided among the IQAC Committee members to enable extensive checking.

The out come of the internal audit:

Department of Microbiology

25.02.2021

Department of Microbiology	Report
Register 1: Department Profile	To be corrected
Register 2: Board of studies, Minutes notebook	Signatures pending
Register 3: Syllabus	Ok
Register 4: Students Profile Register	To be completed
Register 5: Mark Registers	Signature Missing
Register 6: Question Bank	Question Papers to be updated
Register 7: Departmental Library Records	To be completed
Register 8: Alumni Record	Ok
Register 9: Placement Record	To be updated
Register 10: Feedback system	Consolidation report missing for 19-20
Register 11: Parent Teacher Meeting	To be completed
Register 12: Department Meeting minutes	Signature Missing
Register 13: Record of Extension Activities	Incomplete without attendance,
Register 14: Remedial Coaching Record	Maintained Well
Register 15: Ward Tutor Record	Ok
Register 16: Log Book	Pending
Register 17: Rank Cards	Done
Register 18: Department association meeting, guest lecture, workshop, conference report	Ok

Register 19: Extracurricular activities record	Few proofs missing
Register 20: Add-On certificate course report	To be presented separately.
Register 21: Research activity	To be maintained individually
d) Consultancy	No consultancy
e) Acting as Resource Person	To be Maintained
Collaborations and linkages	Letter proof is pending
Faculty Individual profile	Pending
Register 22: MOUs	Maintained.
Register 23: Major and Minor Projects	Maintained.
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	Pending
Register 25: Record/ report of Best practices of the Department	Reports pending

Department of Biotechnology

25.02.2021

Department of Biotechnology	Report
Register 1: Department Profile	Incomplete
Register 2: Board of studies, Minutes notebook	Incomplete
Register 3: Syllabus	Ok
Register 4: Students Profile Register	To be updated
Register 5: Mark Registers	Signature missing
Register 6: Question Bank	Question paper to be updated
Register 7: Departmental Library Records	No clear records
Register 8: Alumni Record	Very minimum data available
Register 9: Placement Record	Very few Placement details available
Register 10: Feedback system	Nil
Register 11: Parent Teacher Meeting	PTA analysis to be updated
Register 12: Department Meeting minutes	Sign missing
Register 13: Record of Extension Activities	Records missing,
Register 14: Remedial Coaching Record	Sign missing
Register 15: Ward Tutor Record	Record missing
Register 16: Log Book	Signature missing
Register 17: Rank Cards	Incomplete
Register 18: Department association meeting, guest lecture, workshop, conference report	Nil
Register 19: Extracurricular activities record	Record missing,
Register 20: Add-On certificate course report	Incomplete
Register 21: Research activity a) UGC, SCI and other Publications – Journals/Books/Book chapters	Ok

b) Paper Presentation by the students and faculty	No proper binding
c) Faculty and Students participation in various conference/seminar and workshops	Pending
d) Consultancy	No consultancy
e) Acting as Resource Person	Proof missing
Collaborations and linkages	Incomplete
Faculty Individual profile	Pending
Register 22: MOUs	ok
Register 23: Major and Minor Projects	Incomplete
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	Students project proofs pending Student Internship incomplete
Register 25: Record/ report of Best practices of the Department	Pending

Department of Psychology

25.02.2021

Department of Psychology	Report
Register 1: Department Profile	To be corrected
Register 2: Board of studies, Minutes notebook	Ok
Register 3: Syllabus	Ok
Register 4: Students Profile Register	To be updated
Register 5: Mark Registers	To be updated
Register 6: Question Bank	OBE pattern questions are missing
Register 7: Departmental Library Records	No records
Register 8: Alumni Record	Record missing
Register 9: Placement Record	Only single student data available
Register 10: Feedback system	Analysis report missing
Register 11: Parent Teacher Meeting	Write up needed
Register 12: Department Meeting minutes	Sign is missing
Register 13: Record of Extension Activities	Incomplete
Register 14: Remedial Coaching Record	Sign is missing
Register 15: Ward Tutor Record	Ok
Register 16: Log Book	To be updated
Register 17: Rank Cards	Ok
Register 18: Department association meeting, guest lecture, workshop, conference report	Nil
Register 19: Extracurricular activities record	Write up to be included
Register 20: Add-On certificate course report	Nil
Register 21: Research activity a) UGC, SCI and other Publications – Journals/Books/Book chapters	Nil

b) Paper Presentation by the students and faculty	Nil
c) Faculty and Students participation in various conference/seminar and workshops	Separate report required
d) Consultancy	Resubmit
e) Acting as Resource Person	Record to be resubmit
Collaborations and linkages	Separate report is required
Faculty Individual profile	Incomplete
Register 22: MOUs	Proof not shown
Register 23: Major and Minor Projects	Nil
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	Nil
Register 25: Record/ report of Best practices of the Department	Reports pending

Department of Botany

25.02.2021

Department of Botany	Report
Register 1: Department Profile	To be corrected
Register 2: Board of studies, Minutes notebook	Ok
Register 3: Syllabus	Ok
Register 4: Students Profile Register	Not applicable
Register 5: Mark Registers	Ok
Register 6: Question Bank	Ok
Register 7: Departmental Library Records	Separate Issue Register must be Maintained for Library.
Register 8: Alumni Record	Not applicable
Register 9: Placement Record	Not applicable
Register 10: Feedback system	Must be maintained
Register 11: Parent Teacher Meeting	Not applicable
Register 12: Department Meeting minutes	Not applicable
Register 13: Record of Extension Activities	No
Register 14: Remedial Coaching Record	Ok
Register 15: Ward Tutor Record	Signature is missing
Register 16: Log Book	Principal signature missing
Register 17: Rank Cards	Not applicable
Register 18: Department association meeting, guest lecture, workshop, conference report	Proof missing
Register 19: Extracurricular activities record	Not applicable
Register 20: Add-On certificate course report	No certificate course
Register 21: Research activity	Asked to present proper individual file
a) UGC, SCI and other Publications – Journals/Books/Book chapters	
b) Paper Presentation by the students and faculty	Not applicable

c) Faculty and Students participation in various conference/seminar and workshops	Not applicable
d) Consultancy	No consultancy
e) Acting as Resource Person	No
Collaborations and linkages	No
Faculty Individual profile	Incomplete
Register 22: MOUs	No
Register 23: Major and Minor Projects	No
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	Not applicable
Register 25: Record/ report of Best practices of the Department	Reports pending

Department of Mathematics

25.02.2021

Department of Mathematics	Report
Register 1: Department Profile	To be corrected
Register 2: Board of studies, Minutes notebook	Ok
Register 3: Syllabus	Ok
Register 4: Students Profile Register	To be updated
Register 5: Mark Registers	Incomplete
Register 6: Question Bank	OBE pattern questions to be added
Register 7: Departmental Library Records	To be updated
Register 8: Alumni Record	No report found
Register 9: Placement Record	Separate files required
Register 10: Feedback system	Report missing
Register 11: Parent Teacher Meeting	Write up needed
Register 12: Department Meeting minutes	Records are missing
Register 13: Record of Extension Activities	Incomplete
Register 14: Remedial Coaching Record	Maintained well
Register 15: Ward Tutor Record	Records missing.
Register 16: Log Book	Signature missing
Register 17: Rank Cards	ok
Register 18: Department association meeting, guest lecture, workshop, conference report	No feedback
Register 19: Extracurricular activities record	Incomplete (Aided & Unaided)
Register 20: Add-On certificate course report	Records missing
Register 21: Research activity	Centralized and maintained
a) UGC, SCI and other Publications – Journals/Books/Book chapters	
b) Paper Presentation by the students and faculty	Should be separated
c) Faculty and Students participation in various conference/seminar and workshops	Should be separated

d) Consultancy	No
e) Acting as Resource Person	Proof pending
Collaborations and linkages	No
Faculty Individual profile	Incomplete
Register 22: MOUs	Proof required
Register 23: Major and Minor Projects	Nil
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	Incomplete
Register 25: Record/ report of Best practices of the Department	Reports pending

Department of History

25.02.2021

Department of History	Report
Register 1: Department Profile	To be corrected
Register 2: Board of studies, Minutes notebook	PG pending
Register 3: Syllabus	Ok
Register 4: Students Profile Register	To be updated
Register 5: Mark Registers	OK
Register 6: Question Bank	Re-do the question papers
Register 7: Departmental Library Records	Student issue register incomplete
Register 8: Alumni Record	Report on Alumni Meeting Can be added in alumni records
Register 9: Placement Record	Incomplete
Register 10: Feedback system	Analysis report from all feedback must be created
Register 11: Parent Teacher Meeting	Duplication of work witnessed
Register 12: Department Meeting minutes	Sign is missing
Register 13: Record of Extension Activities	Incomplete
Register 14: Remedial Coaching Record	Incomplete
Register 15: Ward Tutor Record	Incomplete
Register 16: Log Book	Signature missing
Register 17: Rank Cards	ok
Register 18: Department association meeting, guest lecture, workshop, conference report	Report Is Missing
Register 19: Extracurricular activities record	All academic year reports only with proof and remaining incomplete.
Register 20: Add-On certificate course report	Feedback from the students is missing
Register 21: Research activity	Separate report to be maintained or it can be shown in individual staff profile
a) UGC, SCI and other Publications – Journals/Books/Book chapters	
b) Paper Presentation by the students and faculty	Students and staff should be separated with proof

c) Faculty and Students participation in various conference/seminar and workshops	Students and staff should be separated with proof
d) Consultancy	Nil
e) Acting as Resource Person	Suggested to show in individual file
Collaborations and linkages	Separate proof details was required for collaborations and linkages
Faculty Individual profile	Nil
Register 22: MOUs	Only letter of understanding is produced
Register 23: Major and Minor Projects	Nil
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	Nil
Register 25: Record/ report of Best practices of the Department	Reports pending

Department of English

26.02.2021

Department of English	Report
Register 1: Department Profile	To be corrected
Register 2: Board of studies, Minutes notebook	Ok
Register 3: Syllabus	Ok
Register 4: Students Profile Register	To be updated
Register 5: Mark Registers	Separate registers were not maintained
Register 6: Question Bank	ok
Register 7: Departmental Library Records	Incomplete
Register 8: Alumni Record	Report on Alumni Meeting required
Register 9: Placement Record	No proper Placement file
Register 10: Feedback system	No Feedback form
Register 11: Parent Teacher Meeting	PTA analysis to be updated
Register 12: Department Meeting minutes	Sign are missing
Register 13: Record of Extension Activities	Pending
Register 14: Remedial Coaching Record	Incomplete
Register 15: Ward Tutor Record	Incomplete
Register 16: Log Book	Ok
Register 17: Rank Cards	Ok
Register 18: Department association meeting, guest lecture, workshop, conference report	Pending
Register 19: Extracurricular activities record	Report pending
Register 20: Add-On certificate course report	complete report required.
Register 21: Research activity a) UGC, SCI and other Publications – Journals/Books/Book chapters	Complete register is required
b) Paper Presentation by the students and faculty	Should be - separately maintained.

c) Faculty and Students participation in various conference/seminar and workshops	To be separately maintained.
d) Consultancy	Nil
e) Acting as Resource Person	Re-do
Collaborations and linkages	No
Faculty Individual profile	Incomplete
Register 22: MOUs	Nil
Register 23: Major and Minor Projects	Nil
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	Re-do and submit
Register 25: Record/ report of Best practices of the Department	Reports pending Best practices are appreciable

Department of Tamil

26.02.2021

Department of Tamil	Report
Register 1: Department Profile	Pending
Register 2: Board of studies, Minutes notebook	Ok
Register 3: Syllabus	Ok
Register 4: Students Profile Register	To be updated
Register 5: Mark Registers	Only internal mark register is maintained
Register 6: Question Bank	Binding required
Register 7: Departmental Library Records	Ok
Register 8: Alumni Record	Consolidated Alumini report is missing.
Register 9: Placement Record	Placement & Alumini to be separated and made into individual files
Register 10: Feedback system	Feedback for all academic year must be created.
Register 11: Parent Teacher Meeting	Feedback to be maintained
Register 12: Department Meeting minutes	Pending
Register 13: Record of Extension Activities	Incomplete
Register 14: Remedial Coaching Record	Incomplete
Register 15: Ward Tutor Record	Ok
Register 16: Log Book	Signature missing
Register 17: Rank Cards	Incomplete
Register 18: Department association meeting, guest lecture, workshop, conference report	Pending
Register 19: Extracurricular activities record	Documents missing

Register 20: Add-On certificate course report	Planning to conduct the certificate course
Register 21: Research activity a) UGC, SCI and other Publications – Journals/Books/Book chapters	Resubmit in individual file
b) Paper Presentation by the students and faculty	Re-do
c) Faculty and Students participation in various conference/seminar and workshops	Re-do
d) Consultancy	Nil
e) Acting as Resource Person	Re-do
Collaborations and linkages	Nil
Faculty Individual profile	Incomplete
Register 22: MOUs	Nil
Register 23: Major and Minor Projects	Ok
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	Nil
Register 25: Record/ report of Best practices of the Department	Reports pending

Department of Management studies

26.02.2021

Department of Management studies	Report
Register 1: Department Profile	Incomplete
Register 2: Board of studies, Minutes notebook	Ok
Register 3: Syllabus	OK
Register 4: Students Profile Register	To be updated
Register 5: Mark Registers	Ok
Register 6: Question Bank	Re-do
Register 7: Departmental Library Records	Issue Register Incomplete
Register 8: Alumni Record	Alumini consolidation report is missing.
Register 9: Placement Record	Proof and consolidation report missing
Register 10: Feedback system	Feedback form is missing
Register 11: Parent Teacher Meeting	PTA is incomplete
Register 12: Department Meeting minutes	Ok
Register 13: Record of Extension Activities	Report Pending
Register 14: Remedial Coaching Record	Incomplete
Register 15: Ward Tutor Record	Report Pending
Register 16: Log Book	Signature missing
Register 17: Rank Cards	Incomplete
Register 18: Department association meeting, guest lecture, workshop, conference report	Feedback is missing
Register 19: Extracurricular activities record	NIL

Register 20: Add-On certificate course report	List of students details is missing
Register 21: Research activity a) UGC, SCI and other Publications – Journals/Books/Book chapters	Report of research publications of the faculty is required
b) Paper Presentation by the students and faculty	Re-do
c) Faculty and Students participation in various conference/seminar and workshops	Re-do
d) Consultancy	Nil
e) Acting as Resource Person	Nil
Collaborations and linkages	Re-do
Faculty Individual profile	To be submitted
Register 22: MOUs	Nil
Register 23: Major and Minor Projects	Nil
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	Have to submit
Register 25: Record/ report of Best practices of the Department	Report Pending

Department of Economics

26.02.2021

Department of Economics	Report
Register 1: Department Profile	To be corrected
Register 2: Board of studies, Minutes notebook	Ok
Register 3: Syllabus	Ok
Register 4: Students Profile Register	NA
Register 5: Mark Registers	Nil
Register 6: Question Bank	Question papers are not available
Register 7: Departmental Library Records	No Library
Register 8: Alumni Record	NA
Register 9: Placement Record	NA
Register 10: Feedback system	Nil
Register 11: Parent Teacher Meeting	NA
Register 12: Department Meeting minutes	Mention academic year
Register 13: Record of Extension Activities	Nil
Register 14: Remedial Coaching Record	Signature are missing
Register 15: Ward Tutor Record	OK
Register 16: Log Book	OK
Register 17: Rank Cards	Pending
Register 18: Department association meeting, guest lecture, workshop, conference report	OK
Register 19: Extracurricular activities record	NA
Register 20: Add-On certificate course report	No certificate course
Register 21: Research activity a) UGC, SCI and other Publications – Journals/Books/Book chapters	Research activity of the faculties – proof to be reviewed

b) Paper Presentation by the students and faculty	Awards of the faculty to be separated
c) Faculty and Students participation in various conference/seminar and workshops	Staff Participation required
d) Consultancy	Nil
e) Acting as Resource Person	Record required
Collaborations and linkages	Nil
Faculty Individual profile	Individual profile is required
Register 22: MOUs	Nil
Register 23: Major and Minor Projects	Nil
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	NA
Register 25: Record/ report of Best practices of the Department	Reports pending, (Evidences to be collected)

Department of Chemistry

26.02.2021

Department of Chemistry	Report
Register 1: Department Profile	Pending
Register 2: Board of studies, Minutes notebook	Ok
Register 3: Syllabus	Ok
Register 4: Students Profile Register	To be updated
Register 5: Mark Registers	OK
Register 6: Question Bank	Question papers are not available
Register 7: Departmental Library Records	Ok
Register 8: Alumni Record	Report on Alumni Meeting Can be added in alumni records
Register 9: Placement Record	Can be improved
Register 10: Feedback system	Feedback missing
Register 11: Parent Teacher Meeting	Manual analysis at the end of every class.
Register 12: Department Meeting minutes	Ok
Register 13: Record of Extension Activities	OK
Register 14: Remedial Coaching Record	Ok
Register 15: Ward Tutor Record	OK
Register 16: Log Book	OK
Register 17: Rank Cards	OK
Register 18: Department association meeting, guest lecture, workshop, conference report	Signature missing
Register 19: Extracurricular activities record	No reports for all academic year
Register 20: Add-On certificate course report	Student List missing
Register 21: Research activity	Perfectly maintained in individual staff profile
a) UGC, SCI and other Publications – Journals/Books/Book chapters	
b) Paper Presentation by the students and faculty	Students presentation to be separated from extracurricular activities
c) Faculty and Students participation in various conference/seminar and workshops	Students participation to be separated from extracurricular activities

d) Consultancy	UV and FTIR – proof required
e) Acting as Resource Person	Good
Collaborations and linkages	Records are maintained
Faculty Individual profile	Few to be updated with biodata
Register 22: MOUs	Details required
Register 23: Major and Minor Projects	All are completed
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	To update
Register 25: Record/ report of Best practices of the Department	Reports pending

Department of Zoology

27.02.2021

Department of Zoology	Report
Register 1: Department Profile	To be corrected
Register 2: Board of studies, Minutes notebook	Ok
Register 3: Syllabus	Ok
Register 4: Students Profile Register	To be updated
Register 5: Mark Registers	OK
Register 6: Question Bank	Pending
Register 7: Departmental Library Records	Incomplete
Register 8: Alumni Record	Alumni consolidation report must be prepared
Register 9: Placement Record	Placement record is not Satisfactory only 8 proof out of 25 is found
Register 10: Feedback system	Report Pending
Register 11: Parent Teacher Meeting	Manual analysis required
Register 12: Department Meeting minutes	Incomplete
Register 13: Record of Extension Activities	Incomplete
Register 14: Remedial Coaching Record	Signature is missing
Register 15: Ward Tutor Record	Signature missing
Register 16: Log Book	OK
Register 17: Rank Cards	Remarks required
Register 18: Department association meeting, guest lecture, workshop, conference report	Attendance for Association activity Missing
Register 19: Extracurricular activities record	Extracurricular activity not arranged in yearwise
Register 20: Add-On certificate course report	A complete report is required
Register 21: Research activity	Research activities of the faculty list is to be included in the individual profile with proof
a) UGC, SCI and other Publications – Journals/Books/Book chapters	
b) Paper Presentation by the students and faculty	
c) Faculty and Students participation in various conference/seminar and workshops	Separate report is required
d) Consultancy	Separate report is required
e) Acting as Resource Person	Report pending
Collaborations and linkages	Nil

Faculty Individual profile	Incomplete
Register 22: MOUs	Nil
Register 23: Major and Minor Projects	Two major research project was applied and 1 TNSCST student project was applied
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	PG project details with proof is required Ph.D details missing
Register 25: Record/ report of Best practices of the Department	Reports pending Appreciable best practices

Department of Foods and Nutrition

27.02.2021

Department of Foods and Nutrition	Report
Register 1: Department Profile	Pending
Register 2: Board of studies, Minutes notebook	To be redone
Register 3: Syllabus	Ok
Register 4: Students Profile Register	To be updated
Register 5: Mark Registers	OK
Register 6: Question Bank	Re-do the questions Papers
Register 7: Departmental Library Records	OK
Register 8: Alumni Record	Alumni Register incomplete
Register 9: Placement Record	Placement record to be binded
Register 10: Feedback system	Feedback must be prepared
Register 11: Parent Teacher Meeting	Pending
Register 12: Department Meeting minutes	OK
Register 13: Record of Extension Activities	OK
Register 14: Remedial Coaching Record	Signature missing
Register 15: Ward Tutor Record	OK
Register 16: Log Book	Signature missing
Register 17: Rank Cards	Remarks required
Register 18: Department association meeting, guest lecture, workshop, conference report	Pending
Register 19: Extracurricular activities record	Pending
Register 20: Add-On certificate course report	Report required for feedback from students
Register 21: Research activity	A research publication of the faculty list is to be included in the report.
a) UGC, SCI and other Publications – Journals/Books/Book chapters	
b) Paper Presentation by the students and faculty	No date
c) Faculty and Students participation in various conference/seminar and workshops	Separate report required
d) Consultancy	Nil

e) Acting as Resource Person	Faculty acted as a resource person list is to be included
Collaborations and linkages	Incomplete
Faculty Individual profile	Staff profile is required
Register 22: MOUs	Proof required
Register 23: Major and Minor Projects	Report required
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	Internship training- proof required
Register 25: Record/ report of Best practices of the Department	Evidences are good , report to be prepared

Department of Computer Science

27.02.2021

Department of Computer Science	Report
Register 1: Department Profile	To be corrected
Register 2: Board of studies, Minutes notebook	Signatures pending
Register 3: Syllabus	Ok
Register 4: Students Profile Register	Pending
Register 5: Mark Registers	Signature Pending
Register 6: Question Bank	Question papers are missing
Register 7: Departmental Library Records	Staff issue register Pending
Register 8: Alumni Record	Ok
Register 9: Placement Record	Placement records and higher studies report must be rearranged
Register 10: Feedback system	Analysis report required
Register 11: Parent Teacher Meeting	Analysis to be rearranged first
Register 12: Department Meeting minutes	Signs are missing
Register 13: Record of Extension Activities	Incomplete
Register 14: Remedial Coaching Record	Dates are missing
Register 15: Ward Tutor Record	Nil
Register 16: Log Book	OK
Register 17: Rank Cards	OK
Register 18: Department association meeting, guest lecture, workshop, conference report	Incomplete
Register 19: Extracurricular activities record	Incomplete
Register 20: Add-On certificate course report	Certificates are missing
Register 21: Research activity	Research activity report Required
a) UGC, SCI and other Publications – Journals/Books/Book chapters	
b) Paper Presentation by the students and faculty	To be separated
c) Faculty and Students participation in various conference/seminar and workshops	To be separated
d) Consultancy	Nil

e) Acting as Resource Person	Separate file required
Collaborations and linkages	Required
Faculty Individual profile	Required
Register 22: MOUs	Nil
Register 23: Major and Minor Projects	Ok
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	Mini project proof is required
Register 25: Record/ report of Best practices of the Department	Suggested reports to be prepared

Department of Biochemistry

27.02.2021

Department of Biochemistry	Report
Register 1: Department Profile	To be corrected
Register 2: Board of studies, Minutes notebook	No Signatures
Register 3: Syllabus	Ok
Register 4: Students Profile Register	To be updated
Register 5: Mark Registers	consolidated and internal marks maintained in same register
Register 6: Question Bank	Question papers are missing
Register 7: Departmental Library Records	Staff issue register has no record
Register 8: Alumni Record	Alumni consolidation report must be prepared
Register 9: Placement Record	Placement details not maintained
Register 10: Feedback system	Feedback Analysis report
Register 11: Parent Teacher Meeting	Authentication suggested
Register 12: Department Meeting minutes	Signature Missing
Register 13: Record of Extension Activities	Irrelevant activity and others incomplete
Register 14: Remedial Coaching Record	OK
Register 15: Ward Tutor Record	Nil
Register 16: Log Book	Ok
Register 17: Rank Cards	OK
Register 18: Department association meeting, guest lecture, workshop, conference report	Feed back missing
Register 19: Extracurricular activities record	No
Register 20: Add-On certificate course report	Nil
Register 21: Research activity	To be rechecked. Suggested to be present in individual staff profile
a) UGC, SCI and other Publications – Journals/Books/Book chapters	
b) Paper Presentation by the students and faculty	List the required for Paper and poster presented
c) Faculty and Students participation in various conference/seminar and workshops	To be separated
d) Consultancy	Nil

e) Acting as Resource Person	No
Collaborations and linkages	Collaborations data presented but binding required
Faculty Individual profile	Incomplete
Register 22: MOUs	MOU for the certificate course is on process.
Register 23: Major and Minor Projects	OK
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	Proof required
Register 25: Record/ report of Best practices of the Department	Reports pending

Department of Commerce

27.02.2021

Department of Commerce	Report
Register 1: Department Profile	Ok
Register 2: Board of studies, Minutes notebook	Ok
Register 3: Syllabus	Ok
Register 4: Students Profile Register	To be updated
Register 5: Mark Registers	Good
Register 6: Question Bank	Question papers are missing
Register 7: Departmental Library Records	Pending
Register 8: Alumni Record	Alumni consolidation report must be prepared
Register 9: Placement Record	Placement Records must be maintained year wise
Register 10: Feedback system	Feedback Analysis report for all academic year is missing
Register 11: Parent Teacher Meeting	Manual analysis at the end of each class required
Register 12: Department Meeting minutes	Pending
Register 13: Record of Extension Activities	Good
Register 14: Remedial Coaching Record	Incomplete
Register 15: Ward Tutor Record	Students signature are suggested
Register 16: Log Book	OK
Register 17: Rank Cards	Internal marks be filled in total column
Register 18: Department association meeting, guest lecture, workshop, conference report	Pending in few minutes.
Register 19: Extracurricular activities record	Pending
Register 20: Add-On certificate course report	Incomplete.
Register 21: Research activity a) UGC, SCI and other Publications – Journals/Books/Book chapters	Presented in individual staff profile

b) Paper Presentation by the students and faculty	Ok
c) Faculty and Students participation in various conference/seminar and workshops	Ok
d) Consultancy	Nil
e) Acting as Resource Person	To be presented in individual staff profile or separate file
Collaborations and linkages	To be present in separate file
Faculty Individual profile	Incomplete
Register 22: MOUs	Required
Register 23: Major and Minor Projects	Nil
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	Internship training report presented well.
Register 25: Record/ report of Best practices of the Department	Ok

Department of Physics

27.02.2021

Department of Physics	Report
Register 1: Department Profile	To be corrected
Register 2: Board of studies, Minutes notebook	Ok
Register 3: Syllabus	Ok
Register 4: Students Profile Register	NA
Register 5: Mark Registers	without subject code and in few without principal sign
Register 6: Question Bank	Re-do
Register 7: Departmental Library Records	Issue register- return date and students sign is missing
Register 8: Alumni Record	NA
Register 9: Placement Record	NA
Register 10: Feedback system	Analysis report Required
Register 11: Parent Teacher Meeting	NA
Register 12: Department Meeting minutes	Dates, academic year and timings are missing
Register 13: Record of Extension Activities	Nil
Register 14: Remedial Coaching Record	Time, date, subject name, subject code, and staff sign is missing
Register 15: Ward Tutor Record	Nil
Register 16: Log Book	Subject name left in few log books
Register 17: Rank Cards	NA
Register 18: Department association meeting, guest lecture, workshop, conference report	Well maintained , Feedback required
Register 19: Extracurricular activities record	NA
Register 20: Add-On certificate course report	Nil

Register 21: Research activity	Suggested to have in individual staff profile
a) UGC, SCI and other Publications – Journals/Books/Book chapters	
b) Paper Presentation by the students and faculty	
c) Faculty and Students participation in various conference/seminar and workshops	
d) Consultancy	OK
e) Acting as Resource Person	OK
Collaborations and linkages	Nil
Faculty Individual profile	Individual staff profile is required
Register 22: MOUs	Nil
Register 23: Major and Minor Projects	ok
Register 24: Students research activities – UG/PG/M.Phil/Ph.D.	NA
Register 25: Record/ report of Best practices of the Department	Reports pending

Members of Internal Academic Audit

Dr. P.N. Sudha	Principal
Dr. R. Padmaja	IQAC Coordinator Associate Professor and Head Department of commerce
Members	
1. Dr. V. Rekha	Assistant Professor Department of Zoology
2. Dr. C. Vinothini	Assistant Professor Department of Physics
3. Dr. R. Arunadevi	Assistant Professor Department of Chemistry
4. Dr. T. Gomathi	Assistant Professor Department of Chemistry
5. Mrs. P. Indhumathi	Assistant Professor Department of Commerce
6. Mrs. D. Arthi	Assistant Professor Department of Psychology
7. Mrs. Miracline Susanna	Assistant Professor Department of English
8. Ms.R. Chithra	Assistant Professor Department of Mathematics

EXTERNAL ACADEMIC AUDIT REPORT

External Academic audit held on 23.04.2021 for the academic year 2016 – 2021

General recommendations by the external audit members

1. To be improved
 - Transport facilities
 - Hostel facilities
 - Library reading room
 - Breakfast timing
 - College timing may be altered according to the convenience of the students
2. Publication citation from Google Scholar to be incorporated.
3. Weakness should not be shown in the PPT presentations.
4. Year wise, course wise, semester wise result analysis should be incorporated in the PPT.
5. Check the remarks made in the previous NAAC/Autonomous committee visit and action taken against it should be specified.
6. Records should be maintained in respective alumni those who are going for higher studies and job with proper proof.
7. The contribution of the alumni if any made towards the respective Department or college should be documented.
8. Welfare schemes for unaided staff.
 - Incentive for higher studies

- Incentives for research activities and publications
 - Annual increment
 - Research policies
9. Every department should maintain an action plan for every year and at the end of the academic performance of the same should be reviewed.
 10. Steps to be taken to conduct the state level, national level and international level conference or seminar with the conference proceedings.
 11. The staff members are to be encouraged for more funded major/minor projects.
 12. Uniform feedback about the staff should be maintained and evaluation should be made periodically.
 13. Encourage the students of all departments to apply for more MOOC courses and NPTEL courses.
 14. College campus should be modernized and renovated wherever necessary.
 15. Introduction of B.Sc. Physics course which will be useful for the candidates in and around this area to study science courses (for the purpose of research cultivation).
 16. Encourage the departments which are not offering certificate course or add-on course to offer such course.
 17. Certificate course and add-on course diplomas should be signed by the COE, Principal and the course Co-coordinator.
 18. More number of extension activities towards society should be concentrated much.
 19. More MoUs to be created and should be signed properly and documented.
 20. The staff members are to be encouraged to publish more number of papers in the UGC list/Scopus journals.

External Audit members

1. Dr. G. Britto Antony Xavier
Associate Professor,
PG and Research Department of Mathematics
Sacred Heart College,
Thirupattur, Vellore 635 601

2. Dr. R. Srinivasan
Associate Professor and Research Supervisor,
PG and Research Department of Mathematics,

Islamiah College, New town,
Vaniyambadi - 635 752

3. Dr. R. Robert
Assistant Professor of Physics,
Government Arts College (Men),
Krishnagiri – 635 001

4. Dr. S.Sreedaran,
Associate Professor and Head,
Research Department of Commerce,
MuthurangamGovt.Arts College,
Vellore.

17. Benefits accrued to students under autonomy

During the Academic Period 2020-21 the following are the benefits accrued to the students under Autonomy:

- The students were fully made aware of the usage of technology in their learning process.
- New methods of online teaching were adapted by the faculties for the benefit of the students.
- This academic year motivated the students to improve their knowledge by participating in various webinars, Quiz and FDP suggested by the faculty members relating to their course of study. As a result students participation in Webinars/ Conferences totalled to 1123.
- The technology also enabled to conduct Internal and External exams successfully. The students were trained to take up their Exams online by using Multiple choice modules, which is a very new methodology used during this pandemic period.
- The descriptive methods were used to conduct Semester Exams. The corrections were carried out online and results shall be declared online.
- To note the faculty members were trained to use the online mode to conduct classes and syllabus was completed with out any delay. The students were also benefited.
- The Departments conducted Webinars in the current topics through Online mode which is a remarkable attempt made during this pandemic period.
- To place on record the curriculum was updated during this academic year, Board of Studies and Academic Council was organized online mode and the updated curriculum introduced successfully for the benefit of the students.

Details of Certificate Courses

The College has renewed the following Memorandum of Understanding(MOU's)

Departments	Name of the Certificate Course
--------------------	---------------------------------------

Chemistry	Cosmetics and toiletries
Commerce	Salesmanship
Zoology	Yoga for Youth
History	Functional Hindi, E- Tourism,
Biotechnology	Bio-entrepreneurship

NPTEL/Online Courses

- ❖ DKM College staff and students are very active in pursuing online courses.
- ❖ During July to December 2020, 37 staff and students were registered in SWAYAM-LOCAL CHAPTER.
- ❖ In this Academic year 2020-2021 online courses in SWAYAM-NPTEL Local Chapter total enrolment were 73 among this 11 were passed in this online exam. In this 4 faculty cleared this exam and 7 students cleared this online exam and only one faculty Mrs. Jayanthi from History department scored 72 mark out of 100 with Elite certificate among faculty members and Two student got Elite Certificate were Ms.Sasirekha R scored 68 mark out of 100 from Chemistry department and Ms.S.V.Yugapriya scored 66 mark out of 100 from Commerce department and other 8 were successfully completed the online courses. Three Faculty members received FDP Certificates for the online courses.

INSTITUTIONAL INNOVATION CELL

During academic year 2020-21, The major objective of this was Innovations, startups and entrepreneurship for the students.

- ❖ MHRD -Institution Innovation Council DKMC organized two Training program for Staff members and students on 14.10.2020 & 27.10.2020 respectively
- ❖ It has organized six online and three offline programs as scheduled in website of IIC MHRD.
- ❖ MHRD Innovation Cell (DKMC) has initiated NISP National Innovation Startup Policy during this academic year to build, streamline and strengthen the innovation and entrepreneurial ecosystem in campus
- ❖ National level Webinar was organized on 30.11.2020 .Dr. M. Kanthababu, Professor & Director of CIPR Anna University, Chennai acted as resource person and delivered the special address on the theme “IPR, Start-Up and Innovation.

- ❖ Rural Entrepreneurship development cell was also created as a part of IIC cell to encourage and motivate startups and entrepreneurship in the campus.
- ❖ It has organized six webinar to motivate and trained students to develop entrepreneurship and starts up along with their curriculum through workshop and webinars.
- ❖ On 03.12.2020 a national level Seminar on Do you want risk zone or comfort zone was well organized.Mr.K. Senthamil Selvan, Founder of Arivuthotam,Vellore was the speaker of the day.The major objective of this program was to motivate the students for their startup
- ❖ MrsR. Kalpana,Managing Director,AK foods,Vellore gave an detail idea on funding Oppurtunities to the students in webinar organized by IIC on 28.12.2020
- ❖ On 30.12.2020 IIC organized webinar onWomen Born to Win.Mrs.S.Deepalakshmi,Managing Director,SD Farms,Vellore was the guest .She gave various ideas to do organic farming with less expenditure.
- ❖ Rural Entrepreneurship development cell of IIC organized a competition to students on title Business Plan. This helps students to have a business plan .
- ❖ Students were given necessary support according to their business plan

DST- FIST LAB

- ❖ In order to take up inter disciplinary research and to motivate the students and research scholars one workshop on “Instrumentation” was conducted by DST-FIST Instrumentation Centre, D.K.M. College for Women, Vellore at Kaveri Conference Hall on 16th March 2021 for the PG students and Research scholars of other colleges to create an awareness about instrumentation and to know about the availability of instrumentation facilities in the college. Totally 89 students, Research scholars and staff members belonging to various science disciplines such as Chemistry, Biochemistry and Microbiology participated. All the participants gave a positive response about the workshop and asked to conduct more number of such programs continuously.

- ❖ Revenue generated by the DST-FIST lab consultancy services are about Rs. 14,000/- from UV-Vis and AAS.

MOU's

S. NO.	MOUs	PURPOSE
1.	Biotechnologist 2020.com	To conduct certificate program for 30 hrs on Bioentrepreneurship. Topics covered –Bio-Entrepreneurship basics, Business Incubation, Organic Farming, Millets and Health foods, Palm value products, Spirulina cultivation
2.	Saveetha Institute and Technical Sciences NoF9/2002Um),poonamalle High Road,Chennai,Tamilnadu	To develop and Promote mutual understanding and excellence in practice based education, research exchange between parties.
3.	Life care Counselling & Behavioural Training Centre, 5, Vandalurpark apartment no 3GST road T1, Dblock, Urupakkam, Kancipuram	To conduct Serial Conferences, lectures, seminars for students
4.	Mahatma Gandhi University, Kottayam, Kerala	Research projects, Faculty exchange, students exchange
5.	Board of Apprenticeship Training (BOAT) HEI's	Introducing apprenticeship/internship embedded degree program for B.Com students
6.	ICT Academy ,Chennai	To implement entrepreneurship cluster development program

18. Whether Governing Body, Finance Committee, Academic Council are conducted or Not (Copies of their Minutes may be enclosed)

S.No	Type of Meeting	Date
1.	Governing Body Meeting	15.02.2021 (2019-2020) 20.04.2021 (2020-2021)
2.	Academic Council Meeting	26.08.2020
3.	Finance Committee Meeting	04.12.2020
4.	Board of Studies	22.07.2020

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16/6/2021
Principal
D.K.M. COLLEGE FOR WOMEN
(AUTONOMOUS)
VELLORE - 632 001.

16/6/2021

16/6/2021