

BHARATHIAR UNIVERSITY

COIMBATORE - 641 046, TAMILNADU, INDIA.

State University | Re-Accredited with "A" Grade by NAAC | Ranked 13th among Indian Universities by MHRD-NIRF

Ref.No.BU/S2/S3/S4/SCAA/Syllabus/2021

Date: 05-08-2021

From

То

The Registrar i/c.

The Principals of all affiliated Colleges/
The Directors of all affiliated Management Institutions.

Sir/Madam,

Sub: BoS Meeting 2021- Syllabus for the Academic year 2021-22 and resolutions for Modifications & Changes in the existing syllabus - informing of – reg.

Ref: (1) Minutes of the Standing Committee on Academic Affairs meeting held on 23-06-2021.

(2) The Syndicate Approval dated 28.07.2021

With reference to the above, I am, by direction, to inform that the Boards of Studies have reviewed the Syllabus of all the UG/PG Courses of the Academic year 2020-2021 and the recommendations of the Standing Committee on Academic Affairs/various Boards of Studies have been approved. The Syllabus for the Academic Year 2021-2022 for all the UG/PG degree courses will be uploaded in due course.

Further, the following resolutions were carried out regarding the Modifications and Changes for adoption.

1. BoS in Economics (PG):

- a) It is resolved that, in the I Semester the Elective I / Group C the new paper namely "Behavioural Economics" has been introduced instead of "India's International Trade".
- b) It is decided that the "Quantitative Techniques" for Managerial Decision paper has been Shifted to First Semester instead of Econometrics and Econometrics paper has been Shifted to Semester II in the place of QT paper.
- c) It is resolved that the IV Semester Elective IV/Group-A, Export procedure has been nomenclature as "Import Export Procedures & Documentation. In the same semester Elective IV/Group B a new paper namely "International Business has been replaced as Health Economics.

2. BoS in Economics (UG):

a) It is resolved that, In Semester VI Instead of Extension Activities, we recommend the Introduction Institutional Training/Project work / Field work related to Economics. Under the head Co-curricular Activities.

3. BoS in History (UG):

a) The Board resolved to add the content "Vijayanagar Empire and Bahmani Kingdom" in Unit-V in the subject "History of India from 647 AD to 1526 AD" in Semester-I. (Refer Annexure-I)

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4. BoS in Mathematics (PG):

- a) It is resolved to rename the paper entitled "Numerical Methods" in semester I as "Numerical Analysis"
 - i) Delete the topic "General Solution of the wave equation in unit IV in paper partial Differential Equation in semester II
 - ii) Delete the sentence "Simple problems in the exercise of all units can also be included in the syllabus of Graph Theory in Semester III.
- b) It is resolved to fix the eligibility condition to admission to the PG Course in Mathematics or equivalent thereof.

5. BoS in Mathematics (UG):

- a) It is resolved to add the reference books entitled
 - (i) Resource management Techniques Prof.V.Sundderga, Prof.K.S.Ganapathy, Prof.K.Ganesh, ARS Publication(2017) for the skill based subject, Operations Research–II, Operations Research–III, &IV.
 - (ii) A text book of graph theory R. Balakrishnan, K. Ranganathan Second edition (2012) for B.Sc. Mathematics Elective Paper II (VI Semester) & for B.Sc. Mathematics C.A Elective Paper- i.
 - (iii) Modern Algebra Issac Arumugam, Scitech Publications (2015) Complex Analysis for B.Sc. Mathematical (CA) in V & VI Semesters respectively.
 - (iv) Calculus, Differential Equations, Laplace Transiorni, Margham Publications (2012) P.R. Vital for B.Sc Mathematics and B.Sc mathematics (CA) in III& IV Semester respectively.

6. BoS in English (UG):

- a) There is no Change in the Syllabus and Scheme of Examination of B.A. English Literature and B.A. English Literature with Computer Applications (OBE) Programmes for the candidates admitted from the academic year 2020-2021 for the First, Second, Third and Fourth Semester. In the Fifth and Sixth Semester the following changes have been made:
 - 1. A New Paper "English Language Teaching" is introduced in Core IX instead of Shakespeare-I.
 - 2. In Core X, Indian Writing in English, In Unit II "Ajanta and Ellora, in the Monsoon?" by Sashi Tharoor, "The Argumentative Indian" by Amartya Sen and "Give as a Role Model" by Abdul Kalam are introduced instead of "Tiger in the Tunnel" by Ruskin Bond and "Hungry Stone" by Rabindranath Tagore.
 - 3. In the Sixth Semester, Core XIII Shakespeare II is renamed as Shakespeare and Unit II "The Winter's Tale" is introduced instead of "Macbeth". In Unit IV "Antony and



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Cleopatra" is introduced instead of "Henry IV". In Unit V "Shakespearean Theatre and Audience, Plot, Characterization, Fools in Shakespearean plays" are introduced.

- 4. In Core XIV, a new paper "Gender Studies" is introduced instead of "Intensive Study of an Author Tagore"
- b) The name of the Undergraduate Programme should be B.A. English Literature in all the respective areas including Syllabus, Programme Name, and in all other related Certificates and Communication.

7. BoS in Co-operation:

a) It is resolved that any pass in Higher Secondary Examination in any Discipline preferably from Arts Subjects.

8. BoS in Tourism:

a) In 2019-20 necessary updates were done in papers. (Included Covid-19 – Impact on Tourism Industry – pre and post covid-19 situation, Role of UNWTO during pandemic situation.

9. BoS in Hospital Administration

a) Change the existing so called programme M.H.A (Master of Hospital Administration) as M.A. (Hospital Administration) in the respective places (Page Nos.:1,2,3,4,90 and 91).

10. BoS in Statistics (UG):

a) Eligibility for admission of Students is Mathematics/Statistics/Business Mathematics in +2 Level.

b) Suggestions:

The Board observes that the faculty having qualifications in Statistics and working in Mathematics departments were given qualification approval in mathematics for handling the Statistics Courses but they are denied of evaluation in Statistics Board (i.e. they are denied of examinership in Statistics). Hence the Board resolves to request the authorities to address this issue in favour of such teachers.

Statistics faculty be nominated as members of the Board of Studies in each discipline where Courses of Statistics is offered, such as Quantitative techniques, Bio Statistics, Data Analytics Business analytics etc.,

11. BoS in Physics (PG):

a) As the new syllabus introduced in OBE pattern only in the last academic year, the Board decided not to employ major alterations in the current syllabus. Further, it is resolved to update and to add some books, Online video lecture links particularly, in Mathematical



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Physics – I, Quantum mechanics I and II, and some minor modifications in the syllabus of Advanced Computational Physics.

Details given as follows:

SEMESTER - I

Course code: 13B - PAPER -II MATHEMATICAL PHYSICS - I

Books for Study – One book added for Unit III.

Course code: 13D - PAPER -IV ADVANCED COMPUTATIONAL PHYSICS

The board admits the syllabus with some revision in Unit I and Unit II.

SEMESTER - II

Course code: 23A PAPER -V QUANTUM MECHANICS - I

- Books for Study Books and online links were updated and added.
- b) The board prescribes undergraduate (UG) degree B.Sc. in Physics with ancillary Chemistry and Mathematics as an eligible qualification to get admission in PG Physics program.

12. BoS in Physics (UG):

- a) It is resolved to carry out minor modifications in Allied Physics paper I. Doppler effect in unit II is removed. In unit III, Properties, Powder crystal method, Compton scattering and Applications of X rays are added.
- b) It is resolved to mention the topics specifically under nuclear fission and nuclear fusion in unit II of Allied Physics paper II.
- c) It is resolved to carry out minor revisions, in core paper IX, Quantum Mechanics and Relativity, if necessary.

13. BoS in Chemistry (PG):

- a) Resolved to prepare the Question paper in the following pattern in accordance with the OBE pattern is approved,
 - a. Section-A -10X1=10Marks Multiple Choice
 - b. Section -B = 5X5 = 25 Marks Either / Or type
 - c. Section -C = 5X8 = 40 Marks Either / Or type
 - d. Resolved to be approve the component relating to industry 4.0 and 5.0 in the Syllabus
- b) Resolved the quality of the text books and Reference books and Publication be approved with the following minor changes



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<u>Course code: Paper I</u> - Inorganic Chemistry -I(Chemical Reactions and their Mechanisms)

Books to be included in Reference

Principles of Organic Synthesis – R.O.C.Norman and J.M.Coxon, 3rd Edition, Springer 1993.

Course code: Paper IV - Organic Chemistry -II

Books to be included in Reference

- i) Reactions, Rearrangements and Reagent S.N.Sanyal, Bharathi Bhawan(P{&D), 2019.
- ii) Reaction mechanism in Organic Chemistry S.M.Mukeherji & S.P.Singh, 3rd Edition, Laxmi Publications, 2007.

In the Reference Book list Pnat D.C.Mayo book has to be removed because the same book is also in the text book list.

14. BoS in Chemistry (UG):

- a) In curriculum, second semester Core-III-Practical-I (Inorganic qualitative Analysis) the CIA=40 and ESE=60 Marks instead of 25 and 75 respectively.
- b) 4th Semester, skill based subject-II (Technology of Dyeing of Natural fibres) should be replaced with syllabus send through the mail.
- c) In Allied Chemistry II, Unit 3 the topic Freon in the syllabus should be removed.

15. BoS in Botany (PG):

a) Board Members recommended that, to Change Question Paper Pattern in below mention method

Section – $A = 10 \times 1 = 10 \text{ Marks}$

Section – B = $5 \times 4 = 20 \text{ Marks}$

Section – $C = 3 \times 15 = 45 \text{ Marks}$

Each Units should having all the three Section (A,B&C) Questions.

16. BoS in Botany (UG):

a) In skill based subject practical's, i.e, Paper I- Plant bio resources- the member suggested to incorporate any two specimens available in the locality of the colleges concerned, in each plant category given in the theory syllabus.

17. BoS in Zoology (UG):

a) There is no changes in the existing syllabus except:



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COIMBATORE - 641 046, TAMILNADU, INDIA.

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Core paper I: Animal Diversity - Nonchordata

In the unit IV: Arthropoda – Missing links and Economic importance of Insects is to be added in the general topics.

Core paper III: Comparative Anatomy of Vertebrates

In the unit V: Urinogenital System – In addition to Frog - Shark, Calotes, Pigeon and Rabbit are to be added in the comparison of urinogenital system.

Skill Based Course II: Biostatistics and Computer Application

Unit IV - The content of the syllabus is not relevant with the title of the paper, it is completely replaced with relevant Bio-statistics topics.

Core Paper V: Cell Biology and Biochemistry

In the unit I – Confocal microscope is replaced with Fluorescence microscope.

Core Paper VI: Microbiology

In the unit V – Medical Microbiology - Covid-19 is to be added.

Skill Based Course III: Biophysics and Instrumentation

In the unit V – Principles of Light microscopy and Electron microscopy is removed and continued with Principles and Applications of PH meter.

Core Paper IX: Developmental Biology

In the unit I – Introduction, Fundamentals and Need for Artificial Intelligence is removed. Instead of that Use of Artificial Intelligence in mapping is to be added along with Fate map in the unit II.

Core Paper X: Biotechnology.

In the unit II – Introduction to Genome Editing is to be added along with DNA probes and diagnosis.

- b) Allied Zoology: In Allied Zoology paper Allied Course I Animal Diversity Salient Features of Porifera is to be added in the unit I.
- c) Board members discussed about the Allied paper Biochemistry. It has been Resolved that Allied Biochemistry paper for B.Sc., Zoology major may be handled by the faculty of Zoology.

18. BoS in Biochemistry (PG):

a) The Board made the modifications in the existing syllabus according to the OBE system so as to meet the current trends of higher education.

The changes made are given briefly:



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COIMBATORE - 641 046, TAMILNADU, INDIA.

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ANALYTICAL BIOCHEMISTRY AND BIOINFORMATICS

1. Two new topics were included HPTLC and Types of Mass spectrophotometry.

CELLULAR BIOCHEMISTRY: Topic of first unit is altered.

MICROBIAL BIOCHEMISTRY:

Last unit topic was replaced as Infections and Microbes.

In Unit-I. Applications of Monoclonal antibodies was also included.

IMMUNOLOGY:

Unit-I Topic is changed. History of immunology and immune system was included.

BIOSTATISTICS: Funding agencies-were included under Unit-I

b) It was suggested to make the students to undergo any of the SWAYAM courses optionally during the course with an additional credit of two points.

19. BoS in Biochemistry (UG):

a) Modified few topics is the existing OBE Pattern (2021 – 2022)

Core paper III - Biomedical Instrumentation

Correction – Unit I – Henderson Hassalbalch equation
Unit II-Include – Safety aspects and hazards of radioactive

Core Paper IV Enzyme and Enzyme Technology

Unit II - Regulatory enzymes, allosteric enzyme and covalent modification of enzymes, Isoenzyme, Riboenzyner, Abzymes (Concept and application only)

Unit III - a. Definition - coenzymes and metal copectors

- b. Structure and function, TPP, NAD, VADP, FAD, FMN, CORNZYA
- c. Multi enzyme complex pyruvate dehydrogenase
- d. Mechanism of enzymes action General acid base catalysis & covalent catalysis
- e. Mechanism of action Chymotrypsin

Unit IV - delete Pectinases

Core paper VI - Intermediary metabolism.

Unit IV - Shift Interrelationship between carbohydrates, protein and



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lipid metabolism from Unit V.

b) Eligibility for admission: A Pass in higher Secondary examination conducted by Govt. of Tamil Nadu with Physics/Botany/ Chemistry/Zoology/ Biology/ Nursing/ Biochemistry/Microbiology /Computer Science/Home Science/DMLT/ or Dip in Pharmacy or Pharmacology as one of the subjects other examination accepted as equivalent there to by the Syndicate, subject to other conditions as may be prescribed thereof are also eligible.

20. BoS in Computer Science (PG):

- a) To consider the revision / modification and implementing the changes of the evaluation on phased manner in the existing OBE pattern syllabi has been approved.
 - Existing pattern of question paper is approved
 - The Section A part (MCQ) alone can be distributed in the form of OMR sheet first and collected back after 15 minutes. (or) May be conducted online as feasible.
 - -The candidates shall answer Section B and Section C descriptive questions immediately after submitting Section A.
 - Equal Weightage shall be given to all the levels (K1,K2,K3,K4,K5 and K6) and questions of that type shall be incorporated. This shall be ensured by the scrutinizing committee.
 - For Internal exam, attendance shall be included as a component.

Int 1	Int 2	Best 10	Attendance 5	Seminar / Assignment	Model Exam (75 converted	C+D+E+F
				(20 converted to 5)	to 5)	
		10	5	5	5	25

Attendance mark calculation:

51 <= Attendance Percentage<= 64 - 1 Mark

65<=Attendance Percentage<= 74 - 2 Marks

75<=Attendance Percentage<= 84 - 3 Marks

85<=Attendance Percentage<= 90 - 4 Marks

91<= Attendance Percentage<=100 - 5 Marks

b) There is no change in the Syllabus of M.Sc. Computer Science, MSc Information Technology, M.Sc. Software Systems and M.C.A. – Outcome Based Education, for the candidates admitted in the academic year 2021 -22.



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c) Eligibility for admission to various PG Computer Science Programs is as per the existing University norms. The existing eligibility norms of Bharathiar University for the admission to various PG Computer Stream programs may be followed.

S.No.	Course	Eligibility
l _a	M.Sc. CS	As followed earlier
2.	M.Sc. IT	As followed earlier
3. M.C.A. Passed BCA/ Bachelor Degree in Compute equivalent Degree OR Passed B.Sc./ B.Com 10+2 Level or at Graduation Level (with additing the norms of the concerned University). Ob (45% marks in case of candidates belonging qualifying Examination.		(As per AICTE Norms), As followed earlier
4.	M.Sc. S.S.	As followed earlier

No change in Bridge Course. Existing course may be followed as per existing University norms.

21. BoS in Computer Science (UG):

a) The board unanimously resolves to revise/Modify and implement the change in the evaluation in the following manner

Internal I Marks Component – 25 Marks
Continuous Assessment - 1 and 2 (Average) – 5 Marks
Model Examination – 10 Marks\
Rubrics (Assignment/Presentation/ Report)- 10 Marks
External Mark Component – 75 Marks
Section – A – Online MCQ – 10 Marks
Section –B – Descriptive type questions – 25 Marks
Section - C - Descriptive type questions – 40 Marks

b) With regard to the eligibility for admission of student, the board unanimously resolved to follow the existing guidelines.

22. BoS in Electronics (PG):

- a) Resolved that the eligibility for admission to M.Sc. Applied Electronics and M.Sc. Electronics and Communication Systems is approved.
- b) Resolved that to prepare the Question Paper in accordance with OBE in the following pattern in approved.

Section – A = 10 x 1 = 10 Marks - Multiple Choice
Section – B =
$$5 \times 5 = 25$$
 Marks - either (or) type
Section – C = $5 \times 8 = 40$ Marks - either (or) type

23. BoS in Electronics (UG):



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- a) Resolved the eligibility for admission to B.Sc. Electronics and B.Sc. Electronics and Communication Systems is a pass in +2 with Mathematics or Physics/ Vocational in Electronics/Electrical/Instrumentation/General Motor be approved.
- b) Resolved to prepare the Question Paper in accordance with OBE in the following pattern

Section – $A = 10 \times 1 = 10 \text{ Marks}$ - Multiple Choice Max Marks 75

Section – B = $5 \times 5 = 25$ Marks – either (or) type

Section – $C = 5 \times 8 = 40 \text{ Marks}$ - either (or) type

Section – A = 10 x 1 = 10 Marks - Multiple Choice Max Marks 55

Section – B = $5 \times 3 = 15$ Marks – either (or) type

Section – $C = 5 \times 6 = 30 \text{ Marks}$ - either (or) type

c) Resolved Laboratory Equipments to start a new course is as follows. B.Sc. Electronics/B.Sc Electronics and Communication Systems)

I Year

- i) One multimeter per student (Min 24units)
- ii) CRO-20MHZ 4 Units
- iii) Power supply Variable 5 Units
- iv) AFO 4 Units

II Year

- i) Digital and Analog Ic tester Units
- ii) DSO 4 Units
- iii) Power supply Variable 5 Units
- iv) Signal generator upto 1 MHZ 3 Units

III Year

- i) 8051 Microcontroller 5Units
- ii) Inter facing Kit-minimum 5 different Units
- iii) 8085 Microprocessor 2 Units
- iv) Communication Kits

AM, FM, ASK, FSK, PSK, DSPK, GSM Module (Each one)

24. Nutrition & Dietetics:

- a) It was resolved that there will be modification in Elective paper I A (Bakery) and Elective paper III B (Food Packaging) in UG Syllabus.
- b) It was resolved that same syllabus will be followed for PG Food science and Nutrition.
- c) It was resolved that the eligibility to join B.Sc. Food Science and Nutrition course has been modified are as follows.
 - i) The candidate must be HSC pass with chemistry and any other subject



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COIMBATORE - 641 046, TAMILNADU, INDIA.

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- ii) Vocational Course: Home science, Child development, Nutrition and Dietetics (20% students can be admitted).
- d) It was resolved that the eligibility to join M.Sc. Food Science and Nutrition course has been modified are as follows:
 - i) UG Degree with 55% marks in Home science/Nutrition & Dietetics/ Food science and Nutrition/Foodservice Management and Dietetics/ Clinical Nutrition & Dietetics with Chemistry.
 - ii) B.Sc., degree in Botany, Zoology, Biochemistry, Biotechnology, Food technology, Food processing & Technology, Microbiology, Microbiology with Nanotechnology/ Biochemistry at ancillary level/ B.Voc. in Food Processing (10% students can be admitted).

25. BoS in Microbiology (PG):

- a) Resolved that the existing Syllabus 2020-2021 may be followed without any major modification in the content of the course.
- b) The Title and course code for the Elective courses were modified as follows:

S.	Existing	Modified	Existing Course Title	Modified Course Title	
No.	Course Code	Course			
		Code			
1	1EA-Group B	1EB	4_	-	
2	1EA-Group C	1EC	E CONTRACTOR OF THE CONTRACTOR		
3	2EA-Group B	2EB	-	-	
4	2EA-Group C	2EC			
5	4EA-Group B	4EB	-		
6	4EP-Group C	4EC	= 7	= -	
7	4EP-Group A	4EPA	Basic knowledge in handling	Quality Assurance and	
			of Microbial Culture	Assessment	
8	4EP-Group B	4EPB	Basic knowledge about Bio	Water analysis and	
			Chemical Techniques	Health care	
9	4EP-Group C	4EPC	Basic knowledge about	Techniques in Cytology	
			Cytogenic methods and plant		
			tissue culture techniques		

26. BoS in Microbiology (UG):

a) The existing syllabus was reviewed carefully and the objectives were revised for the courses for the improvement of OBE syllabus.

This revised syllabus is applicable for the students admitted from 2021 - 2022 and onwards. The recent modifications in the syllabus for UG Microbiology programme be retained and applicable from III Semester onwards for the students who were admitted during 2020 - 2021 academic year.



BHARATHIAR UNIVERSITY

COIMBATORE - 641 046, TAMILNADU, INDIA.

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b) The changes made in Allied -- Biostatistics & Computer Application II - <u>Topics deleted:</u>

Unit - I : Parabolic & Exponential Curve

Unit -III: Median Text

Unit –IV: Al in Protein structure prediction & I in protein folding analysis

Unit - V: SPARK

c) Core paper - IV: Microbial Diversity

Unit - II: Major division of Bergey's manual in Systemic bacteriology -

to be specified

Unit – IV : Algar Classification to be included.

d) Skill based Subject III – to be introduced newly as Diagnostic Microbiology – III instead of existing 'Medical coding' paper.

e) The existing SBS-III Medical coding in neoved to Elective II (Group C) instead of the existing subject + 'Biomolecules'.

27. BoS in Catering Science & Hotel Management (PG):

a) The quality in prescription of Text / Reference books and selection of Publishers and such books are available in libraries.

The list of reference books are as below:

S.No	Reference Books	Author	
1	Professional Hotel Front Office	Bhakta, MC Gra Hill India Ltd,	
2	Hotel Front Office Management	James A.Bardi	
3	Food & Beverage Service - 9th Edition	Dennis Lillerap	
4	The Larder Chef	M.J.Leto & W.K.H. Bode	
5	The Art and Craft of the Cold Kitchen: The Cullinary Institute of America	Garde Manger	
6	On Cooking: A text book of Culinary Fundamentals	Sarah Lebensky & Alan M.Hause, Priscilla A.Martel	
7	Marketing Management (15th Edition)	Philip Kotler, KevinLane Keller	
8	Professional Cooking (7th Edition)	Wayne gisslen	
9	Theory of Cookery	Parvinder S. Bali	
10	Hotel Front Office Operations and Management	Jatashankar R. Tewari	
11	Food Production Operations	Parvinder S. Bali	
12	Hotel House Keeping Operations and Management(3rd Edition)	G.Raghubalan, Smritee Raghubalan	
13	Tourism Marketing	Manjula Chaudhary	

b) The eligibility for admission of students is the same as to be followed from the previous year.



BHARATHIAR UNIVERSITY

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28. BoS in Catering Science & Hotel Mgt. (UG):

a) Resolved With regard to the batch (2019-2020) 5th semester is industrial exposure training, schedule for 120 days starting from June to September as per the Bharathiar University affiliated college syllabus, but due to the current COVID19 situation the students will not be able to complete it.

After discussing with the Board members and affiliated college CSHM HODs' it was recommended to the university to swapping the industrial exposure training 5th semester to 6th semester and conduct the 6th semester subjects in 5th semester for the 2019-2020 batch only.

29. BoS in Biotechnology (UG):

- a) Model format for Practical Examination: (Batch includes 2019 Onwards)
- (i) Two lot (Set) of question Papers should be prepared for Maximum of 15 Student/batch
- (ii) Scheme of Evaluation for Practical Examination External Marks: 60

Major:20 (10+5+5)

Minor I: 10(5+5)

Minor II: 10

Spotters: 10 (5x2=10, Identification: 1 Mark, Write up:1 Mark)

Viva:5

Record: 5- Total =60

30. BoS in Costume Design and Fashion (PG)

a) The following courses are approved for the eligibility for admission to M.Sc. CDF and AFD in addition to the existing list of B.Sc./B.Voc. courses (2020-2021).

B.Sc. Apparel Production Technology B.Voc. Textiles and Apparel Design.

31. BoS in Costume Design and Fashion(UG) :

a) Resolved to revise, modify and implement the changes in the existing pattern syllabus of 2020-2021.

The following are the changes made:

1. B.Sc CDF (2020-2021 onwards - exam hours to be included in the following papers

Sem – 1 – Allied Practical – I Fashion Sketching - 3 hours
Environmental Studies - 3 hours

Environmental Studies - 3 hours
Industrial Garment Production - 3 hours

Sem – II – Industrial Garment Production - 3 hours Sem – III – Textile Wet Processing - 3 hours

BT/AT/Non Major Elective – I – 3 hours

2. Sem - IV - Care and Maintenance of Textiles - 3 hours



BHARATHIAR UNIVERSITY

COIMBATORE - 641 046, TAMILNADU, INDIA.

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- b) B.Sc. Apparel Production Technology (2020-2021) Changes made in V and VI Semester. Resolved to revise, modify and implement the changes in the existing pattern Syllabus of 2021-2022 for B.Sc. Apparel Production Technology.
- c) Eligibility for admission of students Candidates with two/ three years Diploma in eligible for first year of all program except B.Sc. Interior Design to be approved.

32. BoS in Corporate Secretaryship:

a) With reference to the changes made in the CBCS syllabus in the academic year 2020-2021, the syllabus for the upcoming year 2021-2022 is revised as follows:

B.com (CS)/ B.Com (CSCA)

- 1) In semester I & II, Core I & III, financial accounting I & II syllabus has been revised.
- 2) In semester II, Core IV Law of insurance has been revised.
- 3) Swatch Bharath summer internship offered in II semester has been omitted.

B.Com (CS)

1) In III & IV semester core VII & IX course title changed from "Companies Act 2013 and Secretarial Practice I & II" to "Companies and Secretarial Practice I & II".

B.Com (CSCA)

- 1) In III & IV semester core VI & IX course title changed from "Companies Act 2013 and Secretarial Practice I & II" to "Companies and Secretarial Practice I & II"
- In semester III, Core VII DBMS has been shifted to semester IV.
 In Semester IV Core X programming in C has been shifted to semester III.

M.Com (CS)

 In Semester I Core II course title changed from "Advanced Companies Act 2013 Practice I" as Advance Company Law"

M.Com (CS CA)

- 1) In Semester I Core I course title changed from "Advanced Companies Act 2013 Practice I" as Advance Company Law"
- b) Eligibility for admission of students has been given in the earlier meeting and there is no change.



BHARATHIAR UNIVERSITY

COIMBATORE - 641 046, TAMILNADU, INDIA.

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33. BoS in Social Work:

Revision / Modification and implementing the change in the existing OBE Pattern Syllabi 2020-2021.

- 1. The title of the core papers will be changed as follows. In order to maintain the uniqueness of the course
 - a. Social Work with individuals as Social Case Work
 - b. Social Work with Groups as Social Group Work
 - c. Social Work with Communities as Community Organization
- 2. In the meeting it is decided to bring important therapies in the IV Semester in Counseling and Guidance paper for MSW Program.
- 3. Since CSR Social Entrepreneurship and Corporate Social Responsibility is a Common paper, hence the Unit on CSR in Social Development paper will be removed and will be replaced with recent social development concept.
- In HRM paper concepts like social compliance Audit management concept in II Unit will be included.
 In OB Paper Self efficacy a Self Esteem topics will be included in values.

34. BoS in Management (PG):

(a) The existing syllabus for all the subjects with Outcome Based Education for **Master of Business Administration** programme except Managerial Economics. It was resolved to add the following portions in the subject Managerial Economics be approved.

In Unit 1- Demand analysis and Estimation and Demand Forecasting;

In the Unit 3 - Product Markets - Market Structure - Competitive market - Imperfect competition and barriers to entry;

In the Unit 4 - Economic Decision-making - Techniques of Capital Budgeting - Present and future worth Method - - Annual equivalent Method - Rate of Return Method ;

In the Unit 5- Technology and employment – Interactions between Government and Business.

The following references are also added:-

- Stiglitz J., Principles of Microeconomics, Norton Publishers 2nd Edition, 1998.
- Peterson, HC and W.C.Lewis, Managerial Economics, Prentice-Hall of India, New Delhi
- (b) The Board decided to retain the syllabus of MBA (International Business) as it is without any changes.

35. BoS in Management (UG):

- a) The board resolved that there will be no changes in the existing OBE based syllabi (academic year 2020-2021). However, the board resolved that the internship on Swachh Bharat offered in II semester be discontinued.
- b) Eligibility for joining BBA It is resolved that the eligibility for a student to join BBA course shall be a pass in any group in HSC.



BHARATHIAR UNIVERSITY

COIMBATORE - 641 046, TAMILNADU, INDIA.

State University | Re-Accredited with "A" Grade by NAAC | Ranked 13th among Indian Universities by MHRD-NIRF

c) Note: BBA is a general Management Course and is universally open to students from diverse streams. This change in eligibility is essential for the benefit of higher secondary students from various groups who are desirous of studying BBA and wishing for a career in Management. Hence, the university may take necessary steps to request the Higher Education Department of Tamil Nadu and Director of Collegiate Education to make this necessary change in the guidelines for admission of students to UG/PG courses in Government/ Aided/ Unaided Arts and Science Colleges for the forthcoming academic year and henceforth.

36. BoS in Commerce (UG):

- a) The eligibility of admission of students is considered and fixed as the student has passed in +2 in any stream.
- b) B.Com Professional Accounting Slight modification is done and will be uploaded in the University website.

37. BoS in Psychology:

- a) The board prescribed a pass in Higher Secondary course as eligibility for admission into B.Sc. Psychology course.
- b) The eligibility for BA Criminology Degree Programme is as under considering the core subjects of the programme from the Academic year 2020-2021.
 - (i) A pass in Higher Secondary Course with Science Subjects (Physics, Chemistry, Biology, Mathematics.
 - (ii) A Pass in Higher Secondary Course with any other Science Subjects obtaining a minimum of 50% marks.
 - (iii) A Pass in Higher Secondary Course with any subjects obtaining a minimum of 50% marks.
 - (iv) Preference may be given to the students who have studied Psychology and Legal Studies at Higher Secondary Level.

38. BoS in Sociology:

a) Model Question paper for OBE pattern of syllabi for Continuous Internal Assessment and Semester examination for 75 marks.

Section -A Answer All questions 1X10=10

Multiple choice questions.

Each question must have four options.

Two questions from each unit.

One question carries 1 mark.

Section- B 7X5=35 Answer All questions

Short note questions.

Two questions from each unit with either or Type A (or) B.

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BHARATHIAR UNIVERSITY

COIMBATORE - 641 046, TAMILNADU, INDIA.

State University | Re-Accredited with "A" Grade by NAAC | Ranked 13th among Indian Universities by MHRD-NIRF

Each question carries seven marks.

Section-C 10X3=30 Essay type questions.

Three questions can be answered out of five questions.

One question from each unit.

Each question carries 10 marks.

The board approves the V & VI semester syllabus for students admitted in the year 2019 with necessary modifications, shifting of paper in relevant place and introducing the more suitable paper at under graduate level. The board has framed the syllabus for newly introduced papers and recommends the college to follow the same.

Introducing, Renaming, Shifting & Modification of papers:

V SEMESTER PAPERS

Indian Social Problems is renamed as Social Disorganization

Social Change and Development is shifted to the place of core paper XIV instead of sociology of Development & Sociology of Development is shifted to the place Elective I C - Social Change and Development.

Community development is introduced instead of personality assessment a skill based subject 4.

Industrial Sociology

Unit II- Theoretical perspectives: Karl Marx, Max Weber, Durkheim, and Mayo.

Unit III- Industrial revolution is removed to avoid repetition as it is denoted in Unit-I

Unit IV- Typographical error is ratified as management of informal organization.

Unit V - Unit title is renamed as Industrial Disputes and Labour Relations and industrial dispute is incorporated.

Social Movements in India

Unit IV- Unit title is renamed as types of backward class and tribal movement.

Unit V- Unit title is renamed as new movements in India in which environmental social movement is incorporated.

Social Problems

The paper entitled as social problems is renamed as Social Disorganisation

Unit I- Causes and stages of social disorganisation is removed.

Unit II- Unit title is renamed as Crime Delinquency and Alcoholism with necessary modifications like Crime- causes. White collar crime, cyber crime and corruption.

Unit IV- Unit V is shifted to the place of unit IV and vice versa.

Social welfare administration

Unit II- Challenges are incorporated instead of characteristics.

Unit III- Unit title is renamed as Social Welfare Board.

Unit IV- Unit title is renamed as NGO's in India.

Unit V- Unit title is renamed as Social Welfare Programmes in India.

SEMESTER VI

Under Elective II C, a paper entitled NGO Management is introduced instead Sociology of Child Development.



BHARATHIAR UNIVERSITY

COIMBATORE - 641 046, TAMILNADU, INDIA.

State University | Re-Accredited with "A" Grade by NAAC | Ranked 13th among Indian Universities by MHRD-NIRF

Under Elective III B, a paper entitled Human Resource Development is introduced in the place of counselling.

The entire (unit I to V) syllabus of medical sociology is revamped for the more focus of social aspects.

The entire (unit I to V) syllabus named Sociology of Tourism is revamped for the better understanding of the paper.

Disaster management

Unit IV- Social resilience concept is added.

Unit title is renamed as Role of government organisations and non government organisations in disaster management.

Unit V- Need for mobilisation. Resource mobilisation-Materials and Funds. Various sources of mobilization. Mennonite Disaster Relief is incorporated.

Sociology of education

Unit IV- NEP- National Education Policy 2020 is incorporated.

Social change and development

Unit I- Theories of social change and planned change.

Unit II- Development theories like Classical Dependency Study –Fernando Cardoso: The New Dependency Studies – Immanuel Wallerstein: The World System Perspective are included.

Unit V- Gender and development – Development and Implications of Globalization is removed.

Social gerontology

Unit III- Social networking. Family relationships, inter-generational relationships are incorporated. Empty nest syndrome is dropped as it is repeated in unit IV. Perspectives on death and aging is removed.

Unit IV- Title of this unit is renamed as Problems of the Aged.

Unit V- Elderly Care and welfare needs is the reframed title of this unit.

Sociology of Youth and development

Unit I- Sociological Theories of Youth – Relative deprivation theory, and Resource mobilization theory – Effects of Globalization on Indian Youth is removed.

39. BoS in Geology:

a) Resolved the eligibility for admission to B.Sc. Geology is a pass in +2 with Physics, Chemistry and Biology be approved.



BHARATHIAR UNIVERSITY

COIMBATORE - 641 046, TAMILNADU, INDIA.

State University | Re-Accredited with "A" Grade by NAAC | Ranked 13th among Indian Universities by MHRD-NIRF

40. BoS in Commerce (PG):

- a) Eligibility for admission for Students is considered and passed with B.Com/B.Com with any branch of Commerce one eligible to apply this Course.
- b) It is resolved to modify the syllabus already with the following subject of M.Com, M.Com.(CA) on per with current scenario and this modified Syllabus is applicable For the forthcoming academic year 2021-2022 onwards also

41. BoS in Communication:

- a) To approve the revised scheme of examination and Syllabus for B.Sc. Visual Communication for the academic year 2021-2022 onwards

 To approve the introduction of online course (Swayam/MOOC's/NPTEL) for 2 credits in the B.Sc. Visual communication programme to be completed before the 5th semester from 2021-2022 onwards.
- b) Resolved to Recommend the eligibility for admission to the following courses
 - (i) B.Sc. Visual Communication (only10+2 including Vocational higher secondary course)
 - (ii) M.A. Journalism and Mass Communication (Any degree from recognized University colleges under 10+2+3 pattern).

42. Bos in Defence Studies:

Eligibility for admission of students in the respective courses:

Choice Based Credit System (CBCS):

The aim of the CBCS system is to enhance the quality and mobility of the students within and between the Universities in the country and abroad.

Eligibility for Admission to the Course

Candidate Seeking admission to the first year of the UG Degree Programme are required to have passed the Higher Secondary Examination (Academic or Vocational) conducted by the Govt. of Tamil Nadu in the relevant subjects or other examinations accepted as equivalent thereto by the Syndicate, subject to such other conditions as may be prescribed thereof, by the Government of Tamilnadu from time to time.

B.A. DEFENCE AND STRATEGIC STUDIES

Candidates seeking admission to the first year of the UG Degree Course should have passed the Higher Secondary Course Examination (Academic or Vocational) conducted by the Govt. of Tamilnadu or any other Examination accepted as equivalent thereto by the Syndicate subject to such other conditions as may be prescribed. Such candidates shall be permitted to take the B.A. Degree Examination of this University after the completion of the Course of three Academic Years in this University / Colleges affiliated to this University and shall qualify for the B.A. Degree.



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COIMBATORE - 641 046, TAMILNADU, INDIA.

State University | Re-Accredited with "A" Grade by NAAC | Ranked 13th among Indian Universities by MHRD-NIRF

Eligibility for Admission to the Course

A candidate who has passed the Degree Examination, generally as main subject of study of this University or an examination of any other University accepted by the Syndicate as equivalent thereto shall be eligible for admission to the Master Degree of this University. No student shall be eligible for admission to a Master's Degree Programme in any of the faculties unless he/she has successfully completed a three year undergraduate degree or earned prescribed number of credits for an undergraduate degree through the examinations conducted by a University / autonomous institution or possesses such qualifications recognized by Bharathiar University as equivalent to an undergraduate degree. Provided that candidates for admission into the specific main subject of study shall also possess such other qualifying conditions as may be prescribed by the University in the Regulations governing respective courses of study.

M.A. DEFENCE AND STRATEGIC STUDIES

A Candidate who has passed any Degree Examination of this University or an Examinations of any other University accepted by the Syndicate as equivalent thereto shall be permitted to appear and qualify for the M.A. Degree Examination in Defence and Strategic Studies of this University after a Course of two academic years in an affiliated college or University Department.

43. BoS in Languages other than Tamil:

- a) To revise the course structure of Part I Hindi and Malayalam with changes in the contents of the syllabi.
- b) To implement the revised course structure, syllabi and the pattern of question papers from the academic year 2021 22 onwards.

44. BoS in Bharathanatyam:

- a) The Existing syllabus 2020-2021 is approved by the board members for the syllabus 2021-2022 with the following changes:
 - i) The word item is used instead of the word pieces.
 - ii) Order of units changed.
 - iii) "Keerthanam" has removed and "Shabdam" added.

45. BoS in Statistics (PG):

- a) To retain the existing course structure of M.Sc.. Statistics (*Annexure I*) without any major changes in the contents of the syllabus but to incorporate the updated references in each of the core and elective papers.
- b) To recommend that the contents of the syllabus approved by this Board shall be applicable for the students who will be admitted from the Academic year 2021 22 onwards.



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COIMBATORE - 641 046, TAMILNADU, INDIA.

State University | Re-Accredited with "A" Grade by NAAC | Ranked 13th among Indian Universities by MHRD-NIRF

c) To endorse the decision of the college(s) which has (have) adopted the present syllabus of the first and second semesters for the students admitted during the academic year 2020 – 21 and to report this endorsement at the forthcoming Standing Committee on Academic Affairs.

[Note: The contents of the present syllabus of the first and second semesters are same as the contents approved in the Standing Committee on Academic Affairs held on 06.02.2014 and were applicable for candidates admitted from the academic year 2014 – 15 onwards]

46. BoS in Research:

Resolved that the existing regulations for M.Phil. / Ph.D. programme be followed with the following modifications for the Academic Year 2021-22.

(1) Clause 15. Age Limit for Research Supervisors in the existing Ph.D., Regulations of Bharathiar University be amended appropriately considering the increase in the age of superannuation of teachers working in affiliated colleges from 58 years to 60 years.

15 Age Limit for Research Supervisors (Amendments)

- a. Upper age limit for research supervisors to register fresh candidates for pursuing any Ph.D., programme under their supervision is fixed 59 years of age in respect of the teachers working in the affiliated colleges and in the University departments (i.e. one calendar year prior to their retirement).
- b. Upper age limit for research supervisors to register fresh candidates for pursuing any Ph.D., programme under their supervision is fixed as 61 / 64 years of age in respect of teachers / scientists working in the recognized academic research institutions / centers / laboratories where the retirement age is 62 / 65 years (i.e. one calendar year prior to their retirement).
- c. In the case of Faculty / Scientists to whom retirement of age is not specified, the upper age limit for them to register fresh candidates for pursuing any Ph.D., programme under their supervision is fixed as 64 years of age.
- d. In case of topics which are of inter-disciplinary nature where the Department concerned feels that the expertise in the Department has to be supplemented from outside, the Department may appoint a Research Supervisor from the Department itself, who shall be known as the Research Supervisor, and a Co-Supervisor from outside the Department/ Faculty/College/Institution on such terms and conditions as may be specified and agreed upon by the consenting Institutions/Colleges. This is in accordance with University Grants Commission (Minimum Standards and Procedure for Award of M.PHIL./PH.D Degrees) Regulations, 2016.
- e. When a research supervisor retires before the candidate completes his/her Ph.D., he / she shall continue to supervise the candidate till the candidate completes the degree.



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COIMBATORE - 641 046, TAMILNADU, INDIA.

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(2) There shall be a provision for registration of candidates for collaborative research leading to the award of Ph. D., degree under dual guidance with one faculty from the University Department and a faculty / scientist from the leading science laboratories *viz.*, DRDO and ICMR, which are the centrally funded research laboratories approved by the University. This dual guidance programme is only for the cases in which Bharathiar University is having Memorandum of Understanding with DRDO and ICMR for collaborative research. Research supervisors under dual guidance shall have equal responsibilities for collaborative work and shall be recommended by the Selection Committee. Recommendation for registration in such cases shall be subject to the approval of the Vice-Chancellor.

47. NCC Curriculum:

Considered and approved the implementations of the NCC Curriculum as **Supportive** / **PART-IV** subjects enabling the NCC Cadets pursue Under Graduate Programme in various Affiliated and Autonomous Institutions.

48. Certificate Course in collaboration with Harvard Business School (HBS):

Considered and approved the offering of Certificate Course in collaboration with Harvard Business School (HBS) through online mode for Students, Faculty and Alumni for extra credit Add On course at an affordable cost by the University and interested Affiliated Colleges.

49. Modifications in the Pattern of Examinations:

Considered and approved the Suggested Modifications in the Pattern of Examinations for the course of study in all UG and PG programmes under the Choice Based Credit System blended with Outcome Based Education shall be framed with continuous internal assessment and comprehensive external assessment for each of the core / elective / supportive / practical papers in the University Examination system for the students admitted with effect from the Academic Year 2021-2022 onwards.

All the Affiliated Colleges and Affiliated Management Institutions of Bharathiar University are hereby requested to strictly follow the Syllabus to be uploaded in the University website www.b-u.ac.in for the Academic year 2021-2022 onwards.

Yours faithfully,

REGISTRAR i/c.,

Copy to:

- 1. The Controller of Examinations i/c., BU with 5 copies.
- 2. The Director i/c., SDE, BU
- 3. All AR/DR's, Registrar Office
- 4. The PRO i/c., BU with a request to upload the syllabi in the University Website.