



SHRI NEHRU MAHA VIDYALAYA COLLEGE OF ARTS AND SCIENCE (SNMV)

(Affiliated to Bharathiar University, Coimbatore, Re-accredited with "A" Grade by NAAC)
Shri Gambhirmal Bafna Nagar, Malumachampatti, Coimbatore - 641 050. Tamil Nadu, India.



Criteria I

Curricular Aspects

1.4

Feedback System

1.4.1

Institution obtains feedback on the academic performance and ambience of the institution from various stakeholders, such as Students, Teachers, Employers, Alumni etc. and action taken report on the feedback is made available on institutional website



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Dr. B. SUBRAMANI, M.Sc, PGDCA, B.Ed., MCA, M.Phil, Ph.D

Principal

18.01.2022

To
The Registrar
Bharathiar university
Coimbatore -641050

Respected sir,
Sub: Submission of Feedback on Curriculum – Reg

Greetings from SNMV College of Arts and Science.

SNMV IQAC has collected feedback on Curriculum from the Stakeholders. The feedback was collected on curriculum 2022 -2023 approved by Bharathiar University for Affiliated Colleges in the SCAA dated 04.01.2022. We have submitted the consolidated feedback report for your perusal.

Kindly do the needful.

Thanking you


Yours faithfully




PRINCIPAL

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SHRI NEHRU MAHA VIDYALAYA
COLLEGE OF ARTS & SCIENCE
SHRI GAMBHIRMAL BAFNA NAGAR,
MALUMACHAMPATTI, COIMBATORE - 641 050

ACKNOWLEDGEMENT FROM UNIVERSITY

LETTER DELIVERY BOOK				
Month & Date	Name & Address	Particulars	Bearer	Signature
4/1/2022	The Controller of Examinations Bharathiar University Coimbatore - 641046. Sub: Dr. B. Subramanian, Principal Squad - Confidential Form for one closed form.			
	The Finance officer, Bharathiar University Coimbatore - 46 Sub: payment cheque N. 18224/ cheque N. 14550 - attached GN			

Galaxy F13

ACTION TAKEN REPORT BY THE AFFILIATING UNIVERSITY

Programme	:	B.Com. Professional Accounting
Course	:	Advance Accounting
Suggestion given	:	The content of Unit II and Unit IV is similar. The topics Hire Purchase and Installment system including Hire Purchase Trading Account is given in both the units.

BEFORE SUGGESTION

On the successful completion of the course, student will be able to:		
1	Recall the accounting treatment relating to different methods of depreciation.	K1
2	Understand the preparation of the Branch accounts, hire purchase and installment system.	K2
3	Apply the accounting procedure for preparing the single entry system	K3
4	Develop the conceptual skills to prepare and present the Partnership accounts.	K4
5	Analyze the procedure for Dissolution of Partnership and Insolvency of Partners by applying the Garner Vs. Murray rule.	K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		
Unit:1	Depreciation	15-- hours
Depreciation – Methods - Reserves and provisions.		
Unit:2	Branch accounts and Hire purchase system	20-- hours
Branch accounts excluding foreign branches. Hire purchase and installment system including hire purchase trading accounts.		
Unit:3	Single Entry System	15-- hours
Single Entry System - Meaning and Features - Statement of Affairs Method and Conversion Method.		
Unit:4	Partnership Accounts	20-- hours
Hire Purchase and Installment System including Hire purchase Trading Accounts		
Unit:5	Dissolution of Partnership	18-- hours
Royalties including Sub-tax – Insolvency of Individuals only		
Note: 20% Marks for theory and 80 % marks for problem.		

AFTER SUGGESTION

Course code	TITLE OF THE COURSE	L	T	P	C
Core - 9	Advanced Accounting 1	4	-	-	4
Pre-requisite	Basic knowledge in accountancy	Syllabus Version		2020-21	
Course Objectives:					
The main objectives of this course are to:					
<ol style="list-style-type: none"> To enable the students to learn provision for depreciation account. To make the students skillfully to prepare branch accounts and Departmental accounts To learn about the preparation of accounts using single entry system. To enhance the conceptual skills to prepare the Hire Purchase and Instalment Purchase system. To provide knowledge to know about the Royalty account and Investment account 					
Expected Course Outcomes:					
On the successful completion of the course, student will be able to:					
1	Recall the accounting treatment relating to different methods of depreciation.				K1
2	Understand the preparation of the Branch accounts and Departmental accounts				K2
3	Apply the accounting procedure for preparing the single entry system				K3
4	Develop the conceptual skills to prepare and present the Hire Purchase and Instalment Purchase system				K4
5	Analyze the procedure for royalty accounts and investment account				K5
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 – Create					
Unit:1	Depreciation	15–hours			
Depreciation – Methods - Reserves and provisions.					
Unit:2	Branch accounts and Departmental accounting	20–hours			
Branch accounts excluding foreign branches. Departmental Accounting – Transfer at cost or Selling price.					
Unit:3	Single Entry System	15–hours			
Single Entry System - Meaning and Features - Statement of Affairs Method and Conversion Method.					
Unit:4	Hire Purchase and Instalment System	20–hours			
Hire Purchase and Instalment System including Hire purchase Trading Accounts					
Unit:5	Royalty and Investment account	18–hours			
Royalties excluding Sub-Lease – Investment Accounts					
Note: 20% Marks for theory and 80 % marks for problem.					
Unit:6	Contemporary Issues	2 hours			
Expert lectures, online seminars – webinars					
Total Lecture hours					90–hours
Text Book(s)					
1	N.Vinayakam, P.L.Mani, K.L.Nagarajan – Principles of Accountancy				
2	T.S.Grewal – Introduction to Accountancy- S.Chand& Company Ltd.,				
3	R.L.Gupta, V.K.Gupta, M.C.Shukla – Financial Accounting – Sultanchand& sons				

ACTION TAKEN REPORT BY THE AFFILIATING UNIVERSITY

Programme	:	M.Sc Biotechnology
Course	:	Genomics&Proteomics
Suggestion given	:	The content of Unit V can be merged with Unit III & IV and basic Topics can be replaced with new advanced topics.

BEFORE SUGGESTION

PAPER XI - GENOMICS & PROTEOMICS

Unit-I: Genome mapping, assembly and comparison.

Genome mapping, Genome sequencing, Genome sequence assembly: Base calling and assembly programs, Genome annotation: Gene ontology, Automated genome annotation. Comparative genomics: Whole genome alignment, Finding a minimal genome, Lateral gene transfer.

Unit-II: Functional Genomics.

Sequence based approaches: EST, EST index construction and SAGE. Microarray based approaches: Oligonucleotide design, Data collection, Data transformation and normalization, Statistical analysis to identify differentially expressed genes and Microarray data classification. Comparison of SAGE and DNA Microarrays.

Unit-III: Proteomics

Technology of protein expression analysis: 2D-PAGE, Mass spectrometry protein identification, protein identification through database searching, Differential in-gel electrophoresis and Protein Microarrays. Post translational modification: Prediction of disulphide bridges and Identification of posttranslational modifications in proteomics analysis. Protein sorting.

Unit-IV: Protein-protein interactions.

Experimental determination of protein-protein interaction, Prediction of protein-protein interactions: predicting interactions based on phylogenetic information and prediction interactions using hybrid methods.

Unit-V: Applications of proteomics.

Medical proteomics-disease diagnosis: Biomarkers, Biomarker discovery using 2DGE and mass spectrometry and Biomarker discovery and pattern profiling using protein chips. Pharmaceutical proteomics-drug development: Proteomics and target validation, Proteomics in the development of lead compounds and Proteomics and clinical development.

References

1. Xiong J. (2006). Essential bioinformatics. Cambridge, UK: Cambridge University Press.
2. Goodman N. (2002). Biological data becomes computer literature: New Advances in Bioinformatics. *Curr. Opin. Biotechnol.* 13: 68-71.
3. Hagen J.B. (2000). The origin of bioinformatics. *Nat. Rev. Genetics.* 1: 231-236.
4. Apweiler R. (2000). Protein sequence databases. *Adv. Protein Chem.* 54: 31-71.
5. Hughes A.E. (2001). Sequence databases and the internet. *Methods Mol. Biol.* 167: 215-223.
6. Stein L.D. (2003). Integrating biological databases. *Nat. Rev. Genet.* 4: 337-45.
7. Batzoglou S. (2005). The many faces of sequence alignment. *Brief. Bioinformatics.* 6: 6-22.
8. Xuang X. (1994). On global sequence alignment. *Comput. Appl. Biosci.* 10: 227-235.
9. Pearson, W.R. (1996). Effective protein sequence comparison. *Methods Enzymol.* 266: 227-258.
10. Spang R. and Vingron M. (1998). Statistics of large scale sequence searching. *Bioinformatics.* 14: 279-284.
11. Mullan L.J. (2002). Multiple sequence alignment- The gateway to further analysis. *Brief. Bioinform.* 3: 303- 305.
12. Brenden C, and Tooze J. (1999). Introduction to protein structure, 2nd ed. New York: Garland publishing.
13. Baker D. and Sali A. (2001). Protein structure prediction and structural genomics. *Science* 294: 93-96.
14. Stekel D. (2003). Microarray bioinformatics. Cambridge, UK: Cambridge university press.
15. Huynen M.A., Snel B., Mering C. and Bork P. (2003). Function prediction and protein networks. *Curr. Opin. Cell Biol.* 15: 191-198.
16. Attwood T.K. and Parry-Smith D.J. (2003). Introduction to bioinformatics, Singapore, Pearson education.

AFTER SUGGESTION

		Version
Course Objectives:		
The main objectives of this course are to:		
<ol style="list-style-type: none"> 1. To understand the various aspects of diversity and complexity of eukaryotic genomes, evolutionary perspective of genomic content, techniques commonly employed in studies of genomics and transcriptomics and applications derived from the knowledge provided by this science. 2. To explain how the field of genomics led to the development of proteomics 3. To investigate how proteins affect and are affected by cell processes or the external environment 		
Expected Course Outcomes (CO) :		
On the successful completion of the course, student will be able to:		
1	Student will be able to describe the development of Omics technologies, with emphasis on modern genomics and proteomics	K1
2	Student will have an awareness and understanding of modern molecular biology concepts and techniques including genomics, transcriptomics, proteomics, and bioinformatics, to translate theoretical knowledge gained from the programme into practical experience via intensive laboratory research that will be particularly applicable to industry.	K2, K3
3	Will be able to describe advanced genomics and proteomics technologies and the ways in which their data are stored	K2, K3
4	Student will be able to discuss how biological systems information relating to genes, proteins and cellular structures can be used to model living cells, and even to create new synthetic cells.	K3, K5
5	Use scientific terminology to manage bibliography and IT resources related to biochemistry, molecular biology or biomedicine and present the results scientifically.	K3, K4
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create		
UNIT: 1	GENOMICS	12 hours
Genome mapping, Genome sequence assembly: Base calling and assembly programs, Genome annotation: Gene ontology, Automated genome annotation. Comparative genomics: Whole genome alignment, Finding a minimal genome, Lateral gene transfer. Sequence based approaches: EST, Microarray and SAGE. Comparison of SAGE and DNA Microarrays.		
UNIT: 2	PROTEOMICS	14 hours
Technology of protein expression analysis: Mass spectrometry protein identification, protein		

UNIT: 3	PROTEIN-PROTEIN INTERACTIONS	13 hours
Experimental determination of protein-protein interaction, Prediction of protein-protein interactions: predicting interactions based on phylogenetic information and prediction interactions using hybrid methods.		
UNIT: 4	APPLICATIONS OF PROTEOMICS	13 hours
Medical proteomics-disease diagnosis: Biomarkers, Biomarker discovery using 2DGE and mass spectrometry and Biomarker discovery and pattern profiling using protein chips. Pharmaceutical proteomics-drug development: Proteomics and target validation, Proteomics in the development of lead compounds and Proteomics and clinical development.		
UNIT: 5	DATA ANALYTICS	13 hours
Introduction– Data Analytics – Data Analysis vs. Data Analytics – Big Data Analytics –Data Formats – Data Characteristics – Big Data Platforms – Applications - Data Analytics Use case: Data Analytics – Health care – Marketing		
UNIT: 6	Contemporary Issues	2 hours
Expert lectures, online seminars - webinars		
	Total Lecture hours	67 hours
Text Book(s)		
1	Brenden C, and Tooze J. (1999). Introduction to protein structure, 2nd ed. New York: Garland publishing.	
2	Hagen J.B. (2000).The origin of bioinformatics. Nat. Rev. Genetics. 1: 231-236	
Reference Books		
1	Goodman N. (2002). Biological data becomes computer literature: New Advances in Bioinformatics. Curr. Opin. Biotechnol. 13: 68-71	
2	V. Bhuvaneshwari, "Data Analytics with R Step by Step", Scitech Publication, ISBN –978-81-929131-2-4, Edition 2016	
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]		
1	Proteomics and Genomics – NPTEL https://nptel.ac.in/courses/102/103/102103017/	
2	Introduction to Proteogenomics – SWAYAM https://onlinecourses.nptel.ac.in/noc19_bt26/preview	
Course Designed By: Mr. T. Purushothaman , Head, Asst. Prof, Dept. of Biotechnology, SNMV CAS, Coimbatore Dr. K. Ramalashmi , Asst. Prof, Dept. of Biotechnology, SNMV CAS, Coimbatore		

ACTION TAKEN REPORT BY THE AFFILIATING UNIVERSITY

Programme	:	All the Programmes
Course	:	All the courses
Suggestion given	:	Subject Code can be included in the syllabus itself

BEFORE SUGGESTION

<i>B.Sc. Biotechnology (Colleges)-revised - 2018-19 onwards</i>				<i>Annexure No.34A</i>				
<i>Page 1 of 5</i>				<i>SCAA Dt: 11.06.2018</i>				
BHARATHIAR UNIVERSITY, COIMBATORE 641 046.								
B.Sc. BIOTECHNOLOGY DEGREE COURSE								
(Affiliated Colleges)								
(FOR THE CANDIDATES ADMITTED FROM THE ACADEMIC YEAR 2018-19 onwards)								
<u>SCHEME OF EXAMINATION - CBCS PATTERN</u>								
Part	Study Components	Course title	Ins. hrs/ week	Examinations				Credit
				Dur.Hrs.	CIA	Marks	Total Marks	
Semester I								
I	Language – I		6	3	25	75	100	4
II	English – I		6	3	25	75	100	4
III	Core Paper I - Cell biology		4	3	25	75	100	4
	Core Paper II - Bioinstrumentation		4	3	25	75	100	4
	Practical I (Cell Biology, Bioinstrumentation and Microbiology)		2	-	-	-	-	-
	Allied A : Chemistry I		4	3	20	55	75	3
	Allied Practical		2	-	-	-	-	-
IV	Environmental Studies #		2	3	-	50	50	2
Semester II								
I	Language – II		6	3	25	75	100	4
II	English – II		6	3	25	75	100	4
III	Core Paper III – Microbiology		5	3	25	75	100	4
	Core Practical I (Cell Biology, Bioinstrumentation and Microbiology)		4	3	40	60	100	4
	Allied A : Chemistry II		4	3	20	55	75	3
	Allied Practical (Chemistry)		3	3	20	30	50	2
IV	Value Education – Human Rights #		2	3	-	50	50	2

BEFORE SUGGESTION

B.Sc. Biotechnology 2021-22onwards-AffiliatedColleges -AnnexureNo.37(a)

SCAADATED:23.06.2021

BHARATHIAR UNIVERSITY, COIMBATORE-641 046.
B.Sc. BIOTECHNOLOGY DEGREE COURSE (Affiliated Colleges)
(FOR THE CANDIDATES ADMITTED FROM THE ACADEMIC YEAR 2021-22 onwards)
SCHEME OF EXAMINATION -CBCS PATTERN

Part	Sub code	Study Components	Course title	Ins.hrs/ week	Examinations				Credit
					Dur/Hrs	CIA	CEE	Total Marks	
Semester I									
I	11T/11H/1 IF	Language – I		6	3	50	50	100	4
II	12E	English – I		6	3	50	50	100	4
III	13A	Core Paper I - Cell biology		5	3	50	50	100	4
	13B	Core Paper II – Bioinstrumentation		4	3	50	50	100	4
		Practical I (Cell Biology, Bioinstrumentation and Microbiology)		3	-	-	-	-	-
	1AA	Allied A: Paper I : Basic Mathematics		4	3	30	45	75	3
IV	1FA	Environmental Studies #		2	3	-	50	50	2
Total				30	18	230	295	525	21
Semester II									
I	21T/21H/2 IF	Language – II		6	3	50	50	100	4
II	22E	English – II		6	3	50	50	100	4
III	23A	Core Paper III – Microbiology		5	3	50	50	100	4
	23P	Core Practical I (Cell Biology, Bioinstrumentation and Microbiology)		4	3	50	50	100	4
	2AH	Allied A : Paper II- Chemistry		4	3	30	45	75	3
	2PH	Allied Practical (Chemistry)		3	3	25	25	50	2
IV	2FB	Value Education – Human Rights #		2	3	-	50	50	2
Total				30	21	255	320	575	23