

S.R.R. & CVR Government Degree College

*An Autonomous & ISO 9001: 2015 Certified Institution:: Ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band in NIRF 2019
NAAC accredited Institution with grade B+ with C.G.P.A 2.6 during March 2017*

Machavaram, Vijayawada, Krishna District, AP-520 004

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Board of Studies - AY:2021-22



**313: B.Sc., MBC
309: B.Sc., M.B.F.**

Department of Biochemistry

S.R.R. & CVR Government Degree College

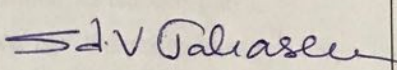
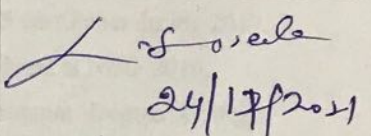
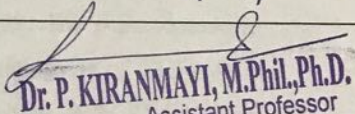
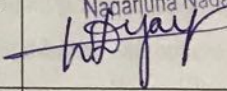
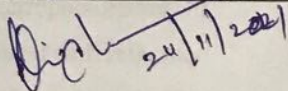
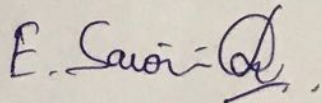
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Department of Biochemistry

Report on 6th Board of Studies Meeting for U.G. Programmes of the Department for AY-2021-22

Composition of the BoS of Biochemistry as Per U.G.C. Guidelines

S.No	Name of the Faculty	Designation	Signature
1	Smt. Syed Vaziha Tahaseen, Lecturer Department of Biochemistry S.R.R. & CVR Government Degree College, Vijayawada Mobile: 9948740949, Email: vazeehatahaseensuraj@gmail.com	Chairperson	
2	Dr.L.Suseela Assistant professor Department of Biotechnology & Biosciences Krishna University Machilipatnam	University Nominee	 24/11/2021
3	Dr. P.Kiranmayi Assistant professor Department of Biochemistry Acharya Nagarjuna University, Nagarjuna Nagar, Guntur	Subject Expert	 Dr. P. KIRANMAYI, M.Phil., Ph.D. Assistant Professor Department of Bio Chemistry Acharya Nagarjuna University Nagarjuna Nagar - 522 510, A.P.
4	Mrs. D. Vijayasree, Lecturer Department of Biochemistry GDC for Women, Guntur.	Subject Expert	
5	Dr. Kisore Babu Govada Laila Nutraceuticals, Vijayawada Mobile:9908630910, Email: kishorempharm@gmail.com	Industrial Expert	 24/11/2021
6	M. Ratna Kumari Studying P.G. in Biochemistry Acharya Nagarjuna University Nagarjuna Nagar, Guntur	Postgraduate student	M. Ratna Kumari
7	E. Sarojini Devi Lecturer in Biochemistry SRR&CVR GDC, Vijayawada.	Member	

PREFACE

S.R.R. & CVR Govt. Degree College (Autonomous), Vijayawada, is one of the prestigious educational institutions located in a historically significant place like Vijayawada in Krishna District, Andhra Pradesh. Vijayawada is a place of historical and cultural significance and importance. In the same way, S.R.R. & CVR Govt. Degree College has also acquired its reputation and prominence in and around Vijayawada by molding the lives of many students to become great personalities. This college is named after late Sri Raja Rangayyappa Rao and late Sri Chunduru Venkata Reddy, who have been great and noble donors of the city Vijayawada, by whose generosity the college has reached and attained such and this elevated status by way of shaping the lives of many generations of students making them worthy citizens of the country. This college has acquired excellent standards academically by the contributions of great teachers because, in the history of any educational institution, its teachers play a vital role. The college was established in 1937. It offers 27 undergraduate and ten postgraduate academic programmes with 86 regular faculty members. The college has a total strength of around 2,800 students, including 1550 boys and 650 girl students. The Institution was accredited with grade B+ with C.G.P.A 2.6 during March 2017 by NAAC and got ISO 9001: 2015 certificate during 2019. The college was ranked by NIRF in 101-150 band at NIRF-2020 & 151-200 band at NIRF 2019.

The department of biochemistry in S.R.R. and CVR Government Degree College, Machavaram, Vijayawada established as restructure course in the year 1998. The B.Sc. course in Biochemistry with the combination of Microbiology, Chemistry/Food technology is of 03/04 years duration. According to the Semester System, the choice-based credit system (CBCS) has been implemented since 2017. The department has also offered UGC COP MLT certificate courses since 2005. The department has sufficient infrastructure necessary for undergraduate practical and research, constitutes an electronic pH meter, electronic balance, laboratory incubator, autoclave, light microscopes, water distillation unit, hot air oven, microtome, colorimeter, etc. spectrophotometer. In addition to the central library of the college, the departmental library is well maintained with reference books, including international editions and entrance exam practice books. The department is also provided with a projector with a screen to deliver ICT-based lectures. The department's objectives are to achieve excellence in teaching through periodic class tests, seminars, group discussions, preparing the students to participate in various competitions, organizing seminars, workshops, conferences, and field trips.

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Department of Biochemistry

BOARD OF STUDIES MEETING FOR BIOCHEMISTRY COURSE

AGENDA

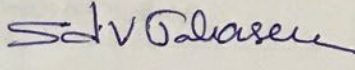
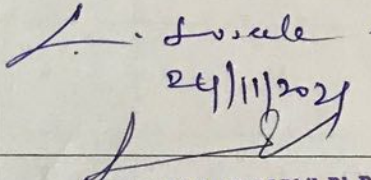
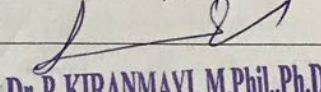
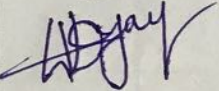
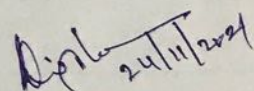
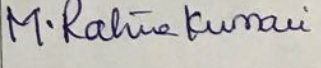
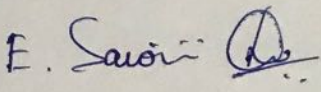
ACADEMIC YEAR: 2021-22

The 6th meeting of the Board of Studies in Biochemistry course was convened on 24th November 2021 at 01.00 p.m. in the Department of Biochemistry, Science block, under Chairmanship of Syed Vaziha Tahaseen, the In-Charge of the department, with the following agenda:

Agenda:

1. To consider and approve course Structure of Biochemistry with course codes BCN-1325 and BCN-2325 for the admitted batch - 2021-22.
2. To consider and approve BC-N-3325, BCN-4325, and BCN-5325 Syllabi for Courses in Semester III & IV under CBCS with Learning Outcomes-based Curriculum Framework (LOCF) for the academic year 2021-22 onwards.
3. To consider and approve BC-5325-5, B-5325-6, BC-7325A, BC-7325B, BC-8325B1, BC-8325B2, BC-8325B3 Syllabi for Courses in Semester V and Semester VI under CBCS
4. To consider and approve UGC COP Medical Lab Technology as an add-on course for Undergraduate students of all programs.
5. To approve the syllabus for life skill course Environmental education
6. To consider and approve the Student Evaluation Policy and Procedure and split-up of C.I.A. & SEE.
7. To consider and approve the list of Question paper setters and examiners.
8. To consider and approve the Departmental Activities Calendar.
9. To consider and approve the Students Centered Pedagogy Policy to enrich the curriculum.
10. Any other with the permission of the chair.

Members present

S.No	Name of the Faculty	Designation	Signature
1	Smt. Syed Vaziha Tahaseen Department of Biochemistry S.R.R. & CVR Government Degree College, Vijayawada Mobile: 9948740949, Email: vazeehatahaseensuraj@gmail.com	Chairperson	
2	Dr.L.Suseela Assistant professor Department of biotechnology & biosciences Krishna University Machilipatnam	University Nominee	 24/11/2021
3	Dr. P.Kiranmayi Assistant professor Department of Biochemistry Acharya Nagarjuna University, Nagarjuna Nagar, Guntur	Subject Expert	 Dr. P. KIRANMAYI, M.Phil., Ph.D. Assistant Professor Department of Bio Chemistry Acharya Nagarjuna University Nagarjuna Nagar - 522 510 A.P
4	Mrs. D. Vijayasree Lecturer Department of Biochemistry GDC for Women, Guntur.	Subject Expert	
5.	Dr. Kisore Babu govada Laila Nutraceuticals, Vijayawada Mobile:9908630910, Email: kishorempharm@gmail.com	Industrial Expert	 24/11/2021
6.	M. Ratna Kumari Studying P.G. in Biochemistry Second Year Acharya Nagarjuna University Nagarjuna Nagar, Guntur	Postgraduate student	
7.	E.Sarojini Devi Lecturer in Biochemistry SRR&CVR GDC, Vijayawada.	Member	

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Structure of BIOCHEMISTRY Syllabus
(Under CBCS for 3-year B.Sc. Programme)

(With domain subject covered during the first 4 Semesters with 5 Courses)

Year	Semester	Courses	Title of the Course	Marks	No.ofHrs/Week	No.ofCredits
I	I	I	BCH-1 Biomolecules	100	4	04
			Practical – BCP-101 Qualitative Analysis	50	2	01
	II	II	BCH-II Analytical techniques	100	4	04
			Practical – BCP-201 Biochemical Techniques	50	2	01
II	III	III	BCH-III Enzymology, Bioenergetics, and Intermediary Metabolism	100	4	04
			Practical – BCP-301 Quantitative analysis	50	2	01
		IV	BCH-IV Physiology, Nutritional and Clinical Biochemistry	100	4	04
			Practical – BCP-401 Nutritional and Clinical Biochemistry	50	2	01
	IV	IV	BCH-V Microbiology and Immunology	100	4	04
			Practical – BCP-501 Microbiology and Immunology	50	2	01
Total No. of Courses: 05 (Five)						

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Department of Biochemistry

**6th BOARD OF STUDIES MEETING FOR BIOCHEMISTRY
COURSE CONDUCTED ON 24th NOVEMBER 2021**

MINUTES

ACADEMIC YEAR: 2021-22

The Minutes of the 6th Board of Studies meeting in Biochemistry was convened on 24th November 2021 at 01.00 p.m. under the Chairmanship of Syed Vaziha Tahaseen; the In-Charge of the department is as follows:

Minutes and Resolutions of Board of Studies Meeting

Agenda 1: To discuss about the outline of the course.

Proposal: The Chairperson, Syed Vaziha Tahaseen, the In-Charge of the department, welcomed BoS members and initiated discussion on agenda points.

Discussion: The Chairman B.O.S. Syed Vaziha Tahaseen explained about the programs existing in the academic year 2020-21, conveyed about the 2020-2021 academic year introduced M.B.F. course, admissions. And explained the achievement of the out went batch students as two of them were selected for P.G. courses at Central universities.

The outline of course structure, theory, practical course, credits, and allotted lecture hours are discussed with the members. University Nominee Dr. Suseela enquired about the titles of the papers. E Sarojini madam conveyed that the semester IV, paper V title has been changed as Microbiology and Immunology.

Agenda 2: To consider and approve the course Structure of Biochemistry with course codes BCN-1325 and BCN-2325 for the admitted batch - 2021-22.

Discussion: Dr. Kisore, industrial expert suggested to include the concept soil analysis as additional input in unit 1 of semester 1.

Resolution 1: It is resolved to approve the biochemistry course structure for the semester I and II. The soil analysis, micelles, and porphobilinogen concepts are kept as additional inputs for units I, III, and V respectively.

Resolution 2: The Woodward Fieser rule was introduced in Spectrophotometry.

Agenda 3: To consider and approve BC-N-3325, BCN-4325, and BCN-5325 Syllabi for Semester III & IV courses for the academic year 2021-22 onwards.

Discussions: The board members were agreed with the change in title for semester IV paper V, as the molecular biology unit is replaced with the in-depth concepts of immunology. The chairperson conveyed that the molecular biology paper will be introduced as a separate course in semester V for the academic year 2022-23.

Proposal: The chairperson, Sd V Tahaseen, proposed to delete photosynthesis from the carbohydrate unit and introduce it in paper V.

Discussion: Dr. Kiranmayi, subject expert, appreciated this change, and other members accepted.

Resolution 3: The photosynthesis topic was introduced in paper V chapter 2.

Proposal: Dr. Suseela, the university nominee, proposed introducing the mechanism of nerve impulse transmission in paper IV UNIT 3.

Discussion: As students understood the structure of neuron in course IV, the members recognized the importance of introducing nerve impulse transmission and accepted it.

Resolution 4: The concept of nerve impulse transmission was introduced in unit 2, paper IV

Proposal: It was proposed by Dr. Kishore, an industrial expert, to introduce Sars CoV2 as an example of an animal virus. And to introduce Cystatin C as a marker for kidney function tests in addition to G.F.R. and creatinine, and to introduce the monoclonal antibodies role as a cocktail injection for Covid 19 treatment.

Discussion: The members of BoS had a fruitful discussion on the introduction of Sars CoV2 (Severe acute respiratory syndrome-related coronavirus) as an example for animal virus and marker Cystatin C and the cocktail therapy.

Resolution 5: As an example for an animal virus, Sars virus was taken, and Cystatin C significance as a marker, cocktail monoclonal antibody treatment was included as additional input in the syllabus with the acceptance of all the members.

Proposal: Mrs. Vijayasree, the subject expert, proposed to take the example of adrenal hormone to explain the signaling pathway for hormone action instead of insulin.

Resolution 6 : The above-suggested proposal was accepted.

Agenda 4 : To consider and approve BC-5325-5, B-5325-6 , BC-7325A, BC-7325B ,BC-8325B1,BC-8325B2, BC-8325B3 Syllabi for Courses in Semester V and Semester VI under CBCS .

Proposal: The chairperson BoS proposed to accept the syllabus for the courses mentioned

Resolution 7: It is resolved to continue the same syllabi proposed in the 5 th BoS meeting for the courses mentioned above.

Agenda 5 : To consider and approve syllabus for UGC COP Medical Lab Technology as an add-on course for Undergraduate students of all programs.

Proposal: To discuss the syllabus for add-on course, "COP in Medical Lab Technology" i.e Certificate course in MLT , Diploma in MLT, Advanced diploma in MLT, approval for issue of notification by the COE, SRR&CVR GDC, conduct of the final examination by the COE autonomous cell SRR&CVR GDC, and issue of certification by Krishna University.

Discussion: BoS university nominee, Dr. Suseela Madam and other members of BoS appreciated for successfully conducting the UGC sponsored MLT course since 2005 in biochemistry department.

Resolution 8 : The syllabus was approved by the BoS committee, It is resolved to conduct the course under autonomy for issue of notification and conduct of examination.

Agenda 5 : To approve the syllabus for life skill course Environmental education.

Resolution: It is resolved to implement the syllabus prescribed by APSHE without any changes for academic year 2021-22.

Agenda 6: To consider and approve the Student Evaluation Policy and Procedure and split up of C.I.A. & SEE.

Proposal: The chairman proposed that the evaluation system in each course be 40: 60 for Internal Continuous Internal Evaluation (C.I.A.) and Semester **End Evaluation (SEE)**.

Discussion: Faculty members of the department expressed their willingness to frame question papers based on the active verbs used to prepare question paper patterns on Bloom's Taxonomy.

Resolution 9: It is resolved to approve the Student Evaluation Policy and Procedure and split-up of C.I.A. & SEE.

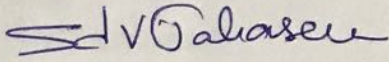
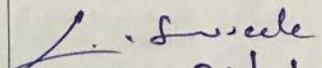
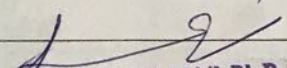
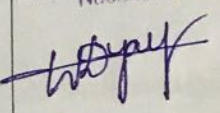
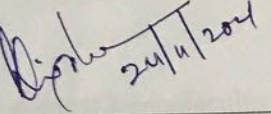
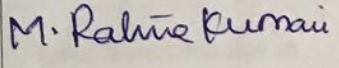
Agenda 7: To consider and approve the list of Question paper setters and examiners.

Resolution 10 : The list of Question paper setters and examiners was approved.

Agenda 8: To consider and approve the Departmental Activities Calendar.

Resolution 11: The departmental activity calendar was appreciated by board members.

Members present

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