

ST ALOYSIUS COLLEGE (AUTONOMOUS) P.B.720, MANGALURU – 575 003, KARNATAKA, INDIA Phone: 0824 - 4117701, 4117702, 4117703, 4117704 Email: principal@staloysius.edu.in

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DEPARTMENT OF POST GRADUATE STUDIES AND RESEARCH IN BIOTECHNOLOGY

MINUTES OF THE BOARD OF STUDIES 2021-22

The Board of Studies meeting was held on 10th March, 2021, at Conference room to discuss the changes in the M.Sc. Biotechnology and BiSEP Syllabi.

The meeting commenced with a prayer service and the welcome address was delivered by Dr Shreelalitha Suvarna J, Head of the Department.

The experts present were:

- 1) Dr Monika Sadananda, Professor, Deparment of Biosciences, Mangalore University.
- 2) Dr.TS Keshava Prasad, Yenepoya Research Centre, Mangaluru.
- 3) Dr. Herman D'Souza, Manipal School of Life Sciences, Manipal.
- 4) Dr Vijendra Prabhu, Dept. of Biotechnology, Manipal University.

The experts made a number of suggestions during the course of the meeting.

Agenda:

- 1. Proceedings of the BOS held on 13th March 2020
- 2. Results and achievements of the passed out students.
- 3. Placements of the students of batch 2018-20
- 4. BiSEP Biotechnology Skill Enhancement Programme
- 5. MSc Syllabus Revision
- 6. Panel of Examiners
- 7. Any other matter

BoS meeting of Department of Post Graduate Studies and Research in Biotechnology

Date: 10th March, 2021 Time: 9,30AM Venue: Conference Room

Chairperson	Dr Shreelaliuha Suvarna J	
Members of the Department	Dr Asha Abraham Mr Sreeejesh PC Dr Jiji George Dr Smruthi G Prabhu Special Invitees Rev. Dr Leo D'Souza SJ, Director, LAB Dr Shashi Kiran Nivas, Research Co-ordinator, LAB	EI I
Subject Expert	Dr T.S. Keshava Prased Professor and Deputy Director, YU-IOB CSBMM, Yenepoya Research Centre, Yenepoya University, Mangaluru – 575 018. Dr Herman S D'Souza Professor, Department of Radiation Biology and Toxicology, Manipal School of Life Sciences, Near Planetarium Complex, Manipal University, Manipal – 576104,	
Vice Chancellor Nominee	Dr Monika Sadananda Professor, Department of Biosciences, Mangalore University, Mangalegangothri Mangalure- 574 199.	н
Industry/Allied Area/Corporate Sector	Medorganics India Pvt. Ltd. ABSENT	
Meritorious Alumnus	Dept. of Biotechnology, Manipal Institute of Technology, Manipal University, Manipal- 576104.	
Student Representative	Ms Sonam Sanjeev Raikar	120
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10/03/2021 (Bas) MINUTES OF THE BOARD OF STUDIES DEPARTMENT OF POST GRADUATE STUDIES & RESEARCH IN BIOTECHNOLOGY 10th MARCH ROZE. AGENDA: Proceedings of the Bos held on 13th Mirch 2000. Placements of atuchents of batch 2018-20 3 Results 2 Bisep - Blokeknology Skill Enhoneement Programme 4. M.Sc. Sylladus Revision. 5 Pornel of Examinent 6 Any other matter 5. . Official classification instead of the terro 'failur' - - Chick the (BIPA recompanded twom · (Dr. Months Sadamanda) Exogramme Realic sutemme annal auteour (1st) -- Programme Objective to be modified to frequenties autions (Student's understanding) * af its subject autromi - only 5 K. Einsilar to research this, and for mour eminantal ocument SNEVER is the flatform - Not MODE (confine flatform) Can [Constign] The ordine cargos can be experimented in the merching displayed on notice board. * Ching one choice is not enough, courses need to be france [Self Eori courses]

Just of policer causes - Distinct causes * thy is coll biology fractical in association with a soft-cou fractical! Suggestion - Sefarate, undefundent fracticals that being minged · Godit mon be seduced to 2 · H plarate exame Batimals (15 marks · Fernal (35 marks) · Total (50 marks) * Every sermenter 3 or 3 papers to be introduced Cade (faifur) and to be changed = for optional fractical Samatin 2 * more option in effort electures. Additional oftion anartioned in syllalus - Defautronant Reemon Mithology & Boligety Predito already stlaiged Suggestion :- Marge Papers. 8 all lingy is made soft core? Not refeat already caused in underguduate All billogy + Michology ? * Ell trology 4 molicular Joiology can be made hard cou. Syllakus for Research methodology - curculati LSS-DEE - Derect mov. Those courses can be added in list of soft causes (option)

Applicable to soar to soar batch. * Protemnico or multiennics repat is transfermatics? Bring about the structure. · Structural Joiday OR Decking · Basic reding - Pythen and R' Sementer 4 Saturnahip - What Any sugulation for COCS ? The know if we can go lyond the credite are we chay? How many soft and hard core courses? Practical credits - University system - chick excluse ! Som 2: * (1) Perchamolay Objectives - To be changed as highlighted. Apply Integrili, In- depth Tanuslidge, Synthesize (2) Merchelogy - rend I Introduce Metagenemics, phylogenetic but to he Objections & Outronies mudop To get an expetience change. - All course outcomie should be only 5 foints. - Italdeore & Roffwar courses - hours. North Remore and Mitrogen Flooton. Unit IT Methamogene - to be upland with None other extremplies-Unit To Biefurtroules - shift after Tintegrated

plant deseases, biological worfare after antitume agents. - add human deseaser & biological wanger. Economic importance of Surman diseases. (3) Cill Brokgy: - To be morged with Melicular Brology. To be added as hardcore in the Tet Semutor. - Mchadar Blology - 1st 2 worts could be compromised. - Both in & IV whith to be retained Pyacticals Biochemistry & Micholistopp: Outcomer -> To train of to teach of Riflame all - 5 outcomes. - Good habitating Practice according to which standards. - Miereblal characterization - & specifie. (4) Molecular Genetics: - Some of the common remn from objection. - Evolutionary aspects of what?

Human Canetics - to be changed to other Jupers - Objection & Outcomes to be changed. Practicals: Cell & Mol Gunatics -> to be changed (I) (1) Find Som: Molecular Blology to be combined - Bugum Coder to be grown. (to be checked 1 for each fupers. (2) Genetic Englineoung: - Change will to must. - Shape Commics to Unit T. Unit 1: Generates methods & applications remove. Unit To & The med modespections, (major) Unit iv: - to be eligted to Unit TT. Bracticalis Pristor P Cause Objective - Emalles the students - refeare it-- Remon Joupare neagents. (3) ENZYMOLDIY - To be changed to handcove. - Chick wort the earlier handcore enzignatery & reference the syllabus [48-52 love is Ce) Bloe-Unit I - Chronitogeofly - components of M.S.

(4) Blainformatice Title change - Blainformatice & Cruby / Multionder. Coun Objections - genomiles proteomices & mutabolimies - Even in course outcome - remain transcriptonies Unit II - change microacuay to DNA microaverage. nerman EST - CAP3 program. Unit The - one egg. cut he-ms, Partain of peptide meleronuays. - Some forther deleted. NMR rearranged - Add Priotein Databour tab metabolimie detabaut tooks Metabolic Pathing resources. (5) PRACTICALS - PSSDE2P BPBCS Enzy - Title Multionwel - Add Whole Conome Sequencing Analysis, Assembly & Annotation add francticale in Bianformatics. - RNA ? (6) avount amp - Ofun Election. - CAPA to be added to Quality Tools. (7) INTRODUCTION OF NEW PAPER - Chuck Vac Guedeling. III. SEMESTER III (a) ABT - refeame objectives 50 outcomer. Unit I = Substitution word check. Unit To - 1st paragriph to be removed. Must To - Introduction to blothies to be aded to Research Inlighty 1

(b) PLANT BIOTECHNOLOGY! Unit IN - Remar for Mothads of to Merco average - Add Plant Vanisties Act or anything related. (C) RNDVSTRIAL BIOTECHNOLOGY: Unit I- Merchiel assault Kelmettes. Unit To - Fallan the method for References. (d) PSSD310 ENVIRONMENTAL BIUTECHNOLOGY - Chuck if it could be convertise to chardcon. Unit I - Remon Morrobial Interesting Title. - c to fotfound, global warming, add new topsing direct change economics, ETA deconjutern sources conversion of water - check dame leo-townim, CRZ. - Remoin Gumplam from PBT & - Ulter-IT - Add solid waste management. - Unimicompositing (2) PS505.36 PLANET BREEDING & SEED TECHNOLOGY. Unit I - change title. - Allerothe coltan termingues - removes. rectures Sydnofaniles & amoforming. - This offernal piper from LESDIG could be added

Copin Elictic - PO 507.3 - Small confirment about startup to be railded as one unit. - Indevidual Cosperate Ownership. - Entreprenewishop lotions to be added. Unit 15 - Research Enteglichy remove. N. (a) GEMESTER -IN - FIRD BROTE SHUNDLOGY Unit · All fine . - Check references & Author namus (6) Immunerery: Unit TT - add to Varial Hiv whetherer. - Change HIV to Albs (c) PROJECT DISCERTATION - PH ST 3-4 - Course Objection & Outromet Ret Examination institutione Sperior after examination section. (d) IPR & Clinical Research - Change Totle-- For afan electru sume tope while it se litters the contents. (2) PSSOS+46 - Title - Stem lell Technickgy instead of lug. - Guuton Papir some changes done: - Treternal change to 35: - 1255 - 1255 - 1/2 (10)

Mar CHANGES! All objection & Cutomes to be required. 10 Preservents to be separately shown with Poper cody Introduction of New Paper with Research. Combine all Blokey & Milaulan Bidagy. Make Enzymology Handcore Paper Environmental Saine - Handcon Paper. Charge Internal Exam at - to half as total as well as sometre. Santainaly - Wrange of Schune - Total sommities 4-33 - Part I 11 -> 3 Part 2. 2 -1 Essay1 And of Examiners - Choose Associate Professors 1) Sy Maile - Retweed Ritired 0 Glixed-3) Questor - Notimi 5) Registrar - -, Anvargar university Retarica 8 No Conger a Badix, Professi. 101 No snow in Kushalneyar, man in Mangalou 13) 2 14.1 Returned -(3) ? No suld of Burgerary -191 soi kitrid.

? - Chick. Probably retired Bitized - Muntioned Dr. Ph.D. mot reg. Suggidions - Student Representation. Marine Blotichmoligy as goftenes dection To teach hands on busining to studiothe Final Suggestions . Sem 7: Combine Cell Biology & Detecular Biology Papar (A). in edge to accomudate Research Methodo Semanti I as softiere - Immontegy popu choplid from Sem iv to SemI as ofitical softion election - Developmental Bidogy - a new sift love redelition to be done. IT - As suggested by the Bas mimbers & the Changellie morninger from Mangalore Unshersty Vier male oftening faglers to be gours for soft con Michay in every somethe and also more oftens to be genn eurn for sfan electric -francis soffered to the other depudment Students (B) Sem II: Micheulac Biskyy Jupa sight to sem 2 somega with all Eteleny to fier . Knownortogy poper changed from software to hardson New election Softwee hopers introduced: Methodology Etters and (A) Rescuch and Angelent al Past Graduate Status Communication - Alex Popus and an and a start of the start of Blochewricht Technique nomenciature changed Analyted Technogues in 70 Blottchmlegy

Multhornet - new momenclature Blowmaker Printermiles Nor Biorafety Bentreer and Bhon Elichia : Chunk 1) mominulature weethe act of Manufastrum Auch in and 10 Genelil struct Revelopment. Preduct in Ricent Runds in Bist Paper Optio - Ghim Elichia 20Rh Climat Kinch Sumultar This - changed title to King Deulefround & 3PA (0) added Soll loss Election te the New West - Lou Electrice . Wy- Hing abriety 2 Pakie - New Masime Biotechnology this Electus Hers Popul Biourneduction Technologitt (d.) Semuta 10 NIT a mir replaced nofu Parmino techniques ----) Alamonster to the already in ?! Roper Introdustion 1 a mis soft well De-writhehumaus hip inter Apparate Practicele: All to be remained at Related to be added to all the meaty introduced the Department of Post Graduate Studies and Research in Biotecnnology Mangalore-5/5003

Department: Post Graduate Studies and Research in Biotechnology



Signature and seal of the Head of the Department