

Affiliated to Bengaluru City University Accredited with **B**⁺⁺ **Grade by the NAAC** Conferred **"College with Potential for Excellence**" by the UGC

RV Road, Basavanagudi Bangalore – 560004 Tel:+91-80-26933220/221 Email:<u>vijayadegree@gmail.com</u> <u>principal@vijayacollege.ac.in</u> Website: www.vijayacollege.ac.in

Department of Biotechnology

Vijaya College R V Road, Basavanagudi, Bengaluru – 04 Department of Biotechnology Add-on/Skill enhancement Course 2021-22

Course: "Certificate in Bioinstrumentation"

Objectives:

- Training the interested students in using Instruments that are part of Research institutes and Biopharma industries.
- Giving hands-on training in using the instruments- Autoclave, Hot-air oven, Laminar air flow chamber, Digital balance, Incubator, Shaker incubator, Micropipettes, etc. through real-time experiments.

Course duration: 40 Hrs – 10 hrs Theory & 30 hrs Practical

Target: 1st and 3rd Semester Life science students

Faculty: From Shreedhar Bhat's Laboratory and department.

Funding: Self financed – Fee Rs.2500/-

<u>Curriculum</u>: Developed by department faculty and Shreedhar Bhat's Laboratory.

<u>Conducted</u>: From September 18 to 29, 2021

Participants: Total 26 students from B Sc V & III semester CBBt and CZBt.

Brief Report:

Department of Biotechnology conducted the Add-on/Skill enhancement Course – "**Certificate in Bioinstrumentation**" in September 2021 during the academic year 2021-22.

The certificate course was inaugurated on September 18, 2021 in the department laboratory. Dr. T A Balakrishna, Member, BHS HES and President, Jeeva Vijaya – Senior Life science students Alumni of Vijaya college was the Chief Guest. Principal, Professor H S Balakrishna presided over the function.

Dr. Gopalakrishna, Head of the Department & Coordinator of the course, gave an introduction about the course. Chief Guest ascertained the importance of such skill development courses.



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Dr. K Suresh, IQAC Coordinator was present and informed the students to make use of such courses.

A test was conducted to ascertain the knowledge of the students about the instruments to be used during the skill enhancement course.

The classes of the course were conducted from September 20 to 29, 2021. Totally 26 students from the present III and V Semester B.Sc CZBT & CBBt participated in the course and attended regularly.

Mr. Venkatesh from Shreedhar Bhat's Laboratory and Mr. Bharath, department faculty, took both theory and practical classes. Students were made into 2 batches for practical. Total 40hrs of classes including theory and practical were conducted. Curriculum of the course was developed by faculty of the department and Shreedhar Bhat's Laboratory.

Students got hands-on experience of using the instruments like Autoclave, Bacterial Incubator, Colorimeter, Digital balance, Hot air oven, Micropipettes, Cooling centrifuge, Microscopes and Ultra centrifuge while conducting real-time experiments.

At the end of the course, a test was conducted to ascertain the expertise developed by the students and it was found out that, the add-on course has given a better knowledge of proper use of those laboratory instruments. In the feedback, students expressed happiness the way classes were conducted and how the course was beneficial to them.

Valedictory program was held on February 26, 2022 to distribute the Certificates to the participants. Dr. Ramamohan, Senior Vicepresident-Technology, I & B Seeds Pvt. Ltd. Bangalore, Sriyuth G V Viswanath, President, BHS Higher Education Society, Bangalore were the guests who distributed the certificates. Guests stressed on the importance of such skill enhancement programs and asked the students to take more such courses to develop expertise in their field.

Inauguration: 18.09.2021



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Students performing Experiments



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Department of Botany.

REPORT ABOUT THE ADD-ON COURSE ON **"PLANT NURSERY TECHNIQUES"**.

The Department of Botany has co-ordinated with Biocentre, Department of Horticulture, Government of Karnataka at Hulimavu, Bangalore and sucessfully conducted a **add** –**on course** on "**plant nursery techniques**". This programme was for one week from 20-8-2022 to 26-8-2022 and for a training period of 30 hours ,imparting skill development training at Biocentre, on nursery techniques.

The fee structure for program is Rs 500 for each student. The program also included a one day visit to **Indian Institute of Horticultural Research** at Hesarghatta. Students availed the van facility of Poorna Pragna school for transportation .

Students were provided with a gardening kit and a certificate at the end of the course. The course was inaugurated by Dr. Rukmini, Senior Assistant Director of Horticulture, Biocentre, Hulimavu,Bannerghata road, Bengaluru on 16th August 2022 at 11am in our college. She also delivered a lecture on **Plant propagation techniques in horticultural crops** after inaugurating the course in our college indoor auditorium.

The students learnt all the methods of vegetative propagation in plants. They also learnt about vermicomposting. They were provided with a gardening kit and 5kgs of vermicompost after completion of the hands on training at BIOCENTRE ,Hulimavu.



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STUDENTS WITH THE SENIOR ASST. DIRECTOR AT BIOCENTRE.



STUDENTS AT INDIAN INSTITUTE OF HORTICULTURAL RESEARCH , HESARGHATTA



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List of students

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3RD SEM B.Sc., "BOTANY"							
SLNC	USN	L	Student Name				
1	U18HW21S0110	K	LOHITH KUMAR C				
2	U18HW21S0122	K	ANJI C B				
3	U18HW21S0126	K	H N VENKATEGOWDA				
4	U18HW21S0134	K	KIRAN KUMAR J				
5	U18HW21S0182	K	SATHVIKA R				
6	U18HW21S0184	K	GAYATHRI T				
7	U18HW21S0186	K	SRINIDHI S				
8	U18HW21S0187	K	BHOOMIKA C M				
9	U18HW21S0192	K	LIKITHA RAMPRASAD				
10	U18HW21S0193	K	LAKSHMITHA V				
11	U18HW2150194	K	SHALINI S				
12	U18HW21S0210	E	ASHRITH G S				
13	U18HW21S0212	K	GOWTHAM B M				
4	U18HW21S0270	K	VINAY KUMAR B A				



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Department of Commerce and Management





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Vijaya College, R. V. Road Department of Commerce and Management Report on Add on course in Tally for the Academic Year 2021-22

A feather in the cap of Commerce and Management Department is added this year An add-on course in tally software in association with NICT computer education pvt ltd, was inaugurated on 29th July 2022, by G V Vishwanath, Honorable President, BHS HES, Presided by Dr K S Sameera Simha, Joint Secretary, BHS HES and Dean, Vijaya College, in the presence of our principal Prof K Shailaja. The course was successfully completed and many more add on course are in pipeline.



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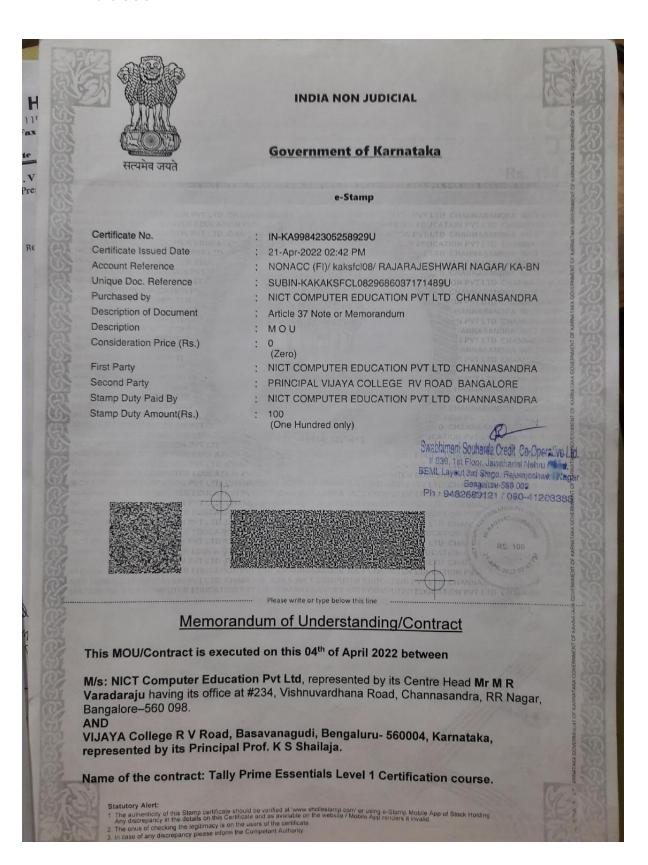
BHS Higher Education Society VIJAYA COLLEGE

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3HS HIGHER EDUCATION SOCIETY 35/1, 11th Main, 4th Block, Jayanagar, Bangalore-560 011. Cel / Fax := 26632871, Tel := 22447572 : bhshes_mc@rediffmail.com / bhshesjnr@gmail.com mail = www.bhshes.org ebsite G.V. Viswanath President Date: 26.04.2022 Ref: MC/RVR/GN/2022-23/ 26 NOTE Ref: Letter from the Principal, VDC, R.V. Road, for conducing Add-on Courses for Commerce students. The proposal is to enter into an MOU with NICT for training our B.Com and BBA students in Tally, etc. The duration of the course is 30 hrs and the fee is Rs. 1500+GST per student. The MOU specifies a minimum batch size of 50 students. The venue will be Vijaya College, R.V. Road. The credentials of NICT Computer Education are good and we may agree. Jagree. Free the aclein way be taken BHSH President PRESIDENT BHS HIGHER EDUCATION SOCIETY The Secretary, BHS HES, Jayanagar, 27(4/22 Bangalore-560 011. (N.B. Shat) Secretary **BHS Higher Education Society** pe vyi chip INSTITUTIONS UNDER THE MANAGEMENT OF BHS HIGHER EDUCATION SOCIETY BASAVANAGUDI CAMPUS The Bangalore Higher Secondary School Vijaya Degree College Bangalore Institute of Legal Studies Vijaya Pre-University College Vijaya Pre-University College Vijaya College, PG Studies JAYANAGAR CAMPUS The Bangalore High School Vijaya College Vijaya Teachers College Vijaya Pre-University College Vijaya Academy for Information Technology PUC Deving PU College T.NARASIPURA CAMPUS PRM Composite PU College BHS Industrial Training Centre PRM Vijaya First Grade College Educatio BHS Poornaprajna Vidyaniketana School **BHS CA Foundation Centre** No. 43 Date 28-4-22 na Despatched on 28-04-22



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Vijaya College RV Road, Basavanagudi Bangalore-04 DEPARTMENT OF COMMERCE AND MANAGEMENT FEE DETAILS OF TALLY CLASS 2021-22 **Class and Section** Fees SL. Student Name Receipt Date NO no. 1770 IVth sem B.Com C 1 0801 15-7-22 VIDYA. M 1770 2 VIth sem B.Com E 0874 17-8-22 ARUN KUMAR .A 1770 IVth sem B.Com C 3 0875 17-8-22 VELAN 1770 VIth sem B.Com A 4 0802 20-7-22 SUHAS. K.G 1770 D IVth sem B.Com 5 0872 20-8-22 PAVAN.S 1770 B IVth sem B.Com 0805 25-7-22 VARSHA C.P 6 1770 B IVth sem B.Com 7 0809 25-7-22 **KEERTHANA C.R** 1770 IVth sem B.Com B 8 0832 25-7-22 CHANDRASHEKAR .N 1770 IVth sem B.Com C 9 0873 25-8-22 **PRJWAL GOWDA** 1770 IVth sem B.Com B 10 0827 25-7-22 SHWETHA.R VIth sem B.Com 1770 B SURABHI.L 0824 25-7-22 11 1770 IVth sem B.Com C 12 0818 25-7-22 SUMANTH S.H IVth sem B.Com B 1770 13 0808 26-7-22 AISHWARYA. S IVth sem B.Com B 1770 **RAKSHITH LM** 14 0816 26-7-22 VIth sem B.Com C 1770 26-7-22 GANESH .R 15 0831 1770 IVth sem B.Com B 26-7-22 KARTHIK.V 0833 16 SHILPA M IVth sem B.Com B 1770 0834 26-7-22 17 IVth sem B.Com 1770 18 0835 26-7-22 HARITHA .P B IVth sem B.Com 26-7-22 **ROHITH.S** 1770 19 0839 A IVth sem B.Com 0841 26-7-22 SHASHANK.R B 1770 20 1770 26-7-22 YUVARAJ.V VIth sem B.Com 0842 C 21 IVth sem B.Com B 0817 26-7-22 **GEETHANJALI.K** 1770 22 23 0821 26-7-22 LATHESH.N IVth sem B.Com B 1770 0852 27-7-22 **CHETHAN B.D** IVth sem B.Com 24 A 1770 27-7-22 0814 **HEMANTH GOWDA S.N** VIth sem B.Com 1770 25 E 0820 28-7-22 CHETHAN. N IVth sem B.Com C 26 1770 0837 27-7-22 MANASA B.S IVth sem B.Com 27 B 1770 27-7-22 0838 ANUSHA.M IVth sem B.Com 28 B 1770 27-7-22 0845 PREETHI.P IVth sem B.Com B 29 1770 27-7-22 SUJITH 0823 VIth sem B.Com 30 C 1770 27-7-22 0825 VIDYASHREE.D 31 IVth sem B.Com A 1770 28-7-22 HIMA MANJUNATH 0826 IVth sem B.Com 32 A 1770 28-7-22 **BRUNDA.N** 0847 IVth sem B.Com B 33 1770



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34 0855 28-7-22 35 RAHUL. U 1770 0848 IVth sem B.Com A 28-7-22 36 RAKESH .C.K 1770 0812 VIth sem B.Com A 28-7-22 RAKESH. J 37 1770 B IVth sem B.Com 0849 28-7-22 VINITHA .D 1770 38 IVth sem B.Com A 0858 28-7-22 YASHAS SAI DATTA C.V 1770 39 IVth sem B.Com A 0859 28-7-22 MANOJ.K 1770 IVth sem B.Com A 40 0861 28-7-22 SAHANA .S 1770 IVth sem B.Com A 41 0862 28-7-22 1770 TRIVENI.C IVth sem B.Com A 42 0863 28-7-22 1770 SHREYAS A.M IVth sem B.Com A 43 0864 28-7-22 CHAITHRA .S 1770 IVth sem B.Com A 44 0865 28-7-22 1770 AMRUTHA S.K IVth sem B.Com A 45 0866 28-7-22 KAVYA S.R IVth sem B.Com 1770 A 46 0828 29-7-22 1770 **REVATHI.M** IVth sem B.Com D 47 0856 29-7-22 1770 NITHISH .M IVth sem B.Com D 48 0857 1770 IVth sem B.Com 29-7-22 **DARSHAN P.B** D 49 0867 1770 29-7-22 MANJUNATH.N IVth sem B.Com B 1770 50 0868 IVth sem B.Com 29-7-22 PRIYA.B C IVth sem B.Com 1770 51 0869 29-7-22 SHASHANK.V C IVth sem B.Com 0870 29-7-22 BHOOMIKA .M 1770 52 A SIDDESH .L IVth sem B.Com A 1770 29-7-22 0871 53

A TOTAL OF 53 STUDENTS HAVE ENROLLED TO THE TALLY CLASS. TOTAL FEE COLLECTED = 53 Student X Rs.1,770/Student = Rs.93,810



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Department of Electronics

<u>SUMMARY REPORT OF ADD-ON COURSE</u> <u>DEPARTMENTNOF ELECTRONICS</u> <u>Title : Certificate level course in Advanced Electronics & Applications</u> <u>REPORT ON COURSES HELD DURING 2021-22</u>

Objective

- The objective of the course was to enable students to acquire the basic concepts of Electronic components and circuits used in different gadgets
- > Appreciate different tradeoffs and choices in current technologies
- > Study the design and analysis of domestic and industry based circuits
- Prepare students for studying advanced topics and carrier in the field of Electronics
- > The course is suitable for those who have strong and genuine interest in learning the details of application fields in electronics.

Student Learning Outcomes

- Students after perceiving through the course are in a position to understand the details of product design process and the knowledge of implementing it for different applications by knowing the circuit components of different gadgets and their functionality.
- > The embedded programming concepts using Atmega328 as a microcontroller
- > The simulation of the designed application using proteus software.
- Designing hardware application using components and check the functionality of hardware with applied program.

Career Prospects

- From the reliable sources it is known that there is a large scope for electronic and related sector with large amount of investments.
- It is one of the field with utmost demand to showcase the development of country at the technology front.
- A student undergoing such job oriented course training will definitely find employment in public and private sector.
- > There are chances of getting opportunities even in foreign countries also.
- ▶ With the facility of GOVT. funding and subsidy one can run his/her own industry.

The approval for this certificate level add-on course was approved by Secretary, BHSHES. A sanctioned copy of the course is enclosed with this report.



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The Certificate course for VI semester B.sc. students started on 25/05/2022 .A total number of 10 theory class and 15 practical class sessions were conducted. The resource person for the course was Ms. Jyothi V, Assistant professor, Department of Electronics, Vijaya college.

For certificate course the practical exam with power point presentation was conducted on 18/08/2022 with external examiner Prof. Tipperudraswamy, H.O.D, Department of Electronics, Vivekananda College.

<u>Title : Certificate level course in Advanced Electronics & Applications</u></u>

LIST OF STUDENTS FOR ADD ON COURSE DURING THE YEAR 2021-22

SI.No.	Students enrolled for the course				
1	KUSUMA				
2	PRASHANTH R				
3	PAVAN KUMAR R				
4	PRASAD H				
5	HARISH K V				
6	VARUN KUMAR S K				
7	NELLURU NAVEEN				
8	RALLAPALLI AYESHA				
9	VIDYA N				
10	SIDDARTH J				
11	LIKITH GOWDA M N				
12	MANASA M				
13	TEJASWINI K S				
14	DEEPASHREE B				
15	RAJESHWARI K S				
16	SABA TARANNUM T				
17	KAVANA T				
18	POORNIMA V				
19	IYGIRI NANDINI				
20	POOJA R				
21	PAVITHRA E				
22	MAHALAKSHMI N				
23	SUBASH S				
24	AJITH KUMAR J				
25	VIGNESH G A				

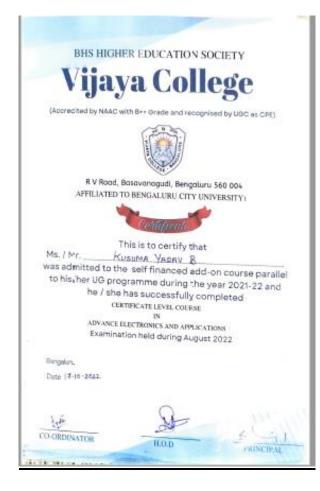


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26	MANI P
27	ANANTHA KRISHNA
28	KARTHIK C P

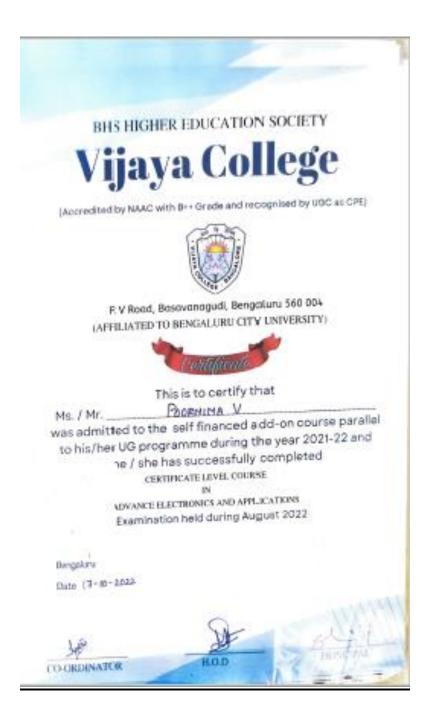
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Department of Chemistry and Biochemistry





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Report on Add-on Course in Clinical Biochemistry

In the academic year 2021 the department of chemistry and Biochemistry decided to start an add-on course in clinical Biochemistry. In order to have this it was decided to have an MoU with REVA University for the academic support. The MoU was formalised on **15.11.21** and admission process started in the month of Feb 2022. A total of 30 Students were given admission and the class was inaugurated April 2022. The following Faculty are the Resource persons/ Lab Assistant for the entire Course having **30 Hrs of Theory Hrs and 30 Hrs of Practical Lab Experience**.

Faculty Name	Organisation		
Dr Veeraraghavan Teaching faculty	Associate Professor Department of Biochemistry REVA University		
	Bangalore (M) 9880241577		
Kum Siri G	Clinical Biochemist		
Teaching faculty	Medall Healthcare Pvt Ltd		
	Bangalore		
	(M) 9980567139		
Mr Ananth Kashyap	MSc Clinical Biochemistry		
Teaching faculty	9886201002		
Sri G Srinivas	Lab Assistant		
Non-teaching staff	Department of Chemistry and Biochemistry Vijaya College RV Road Bangalore (M) 9686909496		

Presently the Theory classes are completed. All the students have given Student Seminars on the topics allotted to them. Two practical Classes were conducted at chemistry lab in the college On 16.06.2022 and 30.06.2023 a group of 22 students visited the REVA Campus and Conducted two more practical experiments on enzyme experiments.

The thepry and practical classes are completed and the examination dates are to be announced. The results and certification programme are due to be conducted.

Course Coordinator



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Department of Microbiology

VIJAYA COLLEGE

R. V. Road, Basavanagudi, Bengaluru 560004

DEPARTMENT OF MICROBIOLOGY

REPORT ON INITIATION OF ADD-ON COURSE

"PRODUCTION OF ADVANCED BIOFERTILIZERS AND FIELD APPLICATIONS"



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VIJAYA COLLEGE

R. V. Road, Basavanagudi, Bengaluru 560004

DEPARTMENT OF MICROBIOLOGY

REPORT ON INITIATION OF ADD-ON COURSE

Topic: Production of Advanced Biofertilizers & Field Applications
Date & Time: 08/06/2022 10:30AM to 04:30PM
Venue: Biocentre, Hulimavu, Bengaluru
No. of Participants: 37 students
Faculty Accompanied: Ms. Meghana S.
Resource Persons: Dr. Rukmini S. N & Dr. Varun, Biocentre, Hulimavu

Preamble:

Biofertilizer is a large population of a specific or a group of beneficial microorganisms for enhancing the productivity of soil either by fixing atmospheric nitrogen or by solubilizing soil phosphorus or by stimulating plant growth through synthesis of growth promoting substances. Bio-fertilizers based on renewable energy sources are cost effective supplement to chemical fertilizers, eco-friendly and can help to economize on the high investment needed for chemical fertilizer use as far as nitrogen and phosphorus are concerned. Biofertilizer is a 100% natural and organic fertilizer that helps to provide and keep in the soil all the nutrients and microorganisms required for the benefit of the plants.

In purview of these facts, the Department of Microbiology has taken the initiative to conduct an add-on course on the "**Production of Biofertilizers and their Field Applications**" for the students to make them aware of the benefits and the need for biofertilizer usage in the current world.



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Biocentre:

Biocentre, Department of Horticulture, Government of Karnataka was established in the 2001 in Hulimavu, Bengaluru. It is aimed at catering to the basic technical services and requirements of farmers, entrepreneurs, students and research professionals of the state in different domains. This center holds the best facilities and trainings for mushroom cultivation, production of biofertilizers, bio-control agents, issuance of phytosanitary certificates, pesticide residue analysis, quality analysis of soil, water and plant tissues and bio-inputs to cater to the needs of farmers, entrepreneurs, consumers and exporters.

Overview:

The initiation of the Add-on course for students of 2nd & 3rd year BcGMb combination was done by visiting Biocentre, Hulimavu, Bengaluru on 08-06-2022, for a one-day certificate training course on Mushroom cultivation and Biofertilizer production. 37 students had enrolled for the course and all of them assembled at Biocentre by 10AM. The students were accompanied by Ms. Meghana, faculty of the Department of Microbiology, Vijaya College.

The students were taken to the seminar hall for registration and introductory lectures. After the completion of registration process, the students were addressed by Dr. Varun, Scientist In-charge of the Mushroom Cultivation and Training Lab. Dr. Varun spoke regarding the importance and types of mushrooms. He further explained in detail the various steps involved in the cultivation of mushrooms along with certain tips to be followed to get a good yield. After the theoretical session, the students were taken to the mushroom cultivation lab. Here, the students were given a practical demonstration on filling of bags with substrate,



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sterilization techniques, spawning, and fruiting of mushrooms. The mushroom incubation room and fruiting room were also shown. The different varieties of mushrooms grown at the facility were also shown to the students. The students were made aware of the spawn production and mushroom cultivation training programs at the facility. It was a very interactive session where the students clarified their various doubts and some even purchased filled bags to grow the mushrooms at their houses. Additionally spawn of pink oyster mushrooms and prepared bags were purchased by the Department to make students as inoculum to produce the mushrooms in college laboratory as part of their practical syllabus.

Post lunch, the students assembled back at the seminar hall for a lecture session on Biofertilizer production. The session was moderated by Dr. Narayanswamy, a contract-based scientist of the Biofertilizer session. He spoke about the importance of biofertilizers and the detailed production of the same beginning from starter culture preparation to mass production. Dr. Rukmini, senior assistant director of research at Hulimavu addressed the students, providing awareness about the center, the various facilities and training programs that are provided. The session was followed by a visit to the biofertilizer unit, wherein the students were shown autoclaving room, fermentor tanks for mass production, carrier material storage area, mixing area, and the final packaging of biofertilizers. The students were taken to visit the Azolla growing area. Azolla is a water fern that harbors Anabaena in its cells which is an excellent nitrogen fixing biofertilizer. Samples of Azolla were collected as inoculum and brought back to the college laboratory. Packets of ready biofertilizers such as Azotobacter and Microbial Consortium were purchased by the Department to initiate the practical work at the college laboratory.

At the end of the visit, certificates were distributed to students and the one-day at Biocenter training was concluded.

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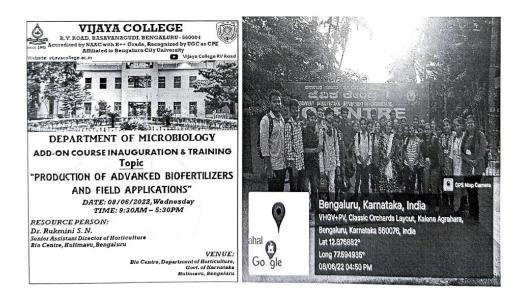


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Program Outcome:

At the end of the one-day certificate training programs the students obtained a clear understanding of mushroom cultivation and biofertilizer production. The students have initiated the practical work in the college laboratory by planting Azolla samples collected at biocentre in a small pit like vessel for propagation and masscultivation. The students shall monitor the plant closely and once substantiate growth has been attained, the biofertilizer will be analyzed for its nutrient contents and trials will be performed on plants to check their effects. Using various sources, such as soil, plants root nodules, etc., other beneficial microorganisms such as Rhizobium, Azotobacter, Bacillus and mixed culture shall be isolated, mass cultivated, analyzed, combined with suitable carrier materials and used for trials on plants to determine their efficacy over the upcoming months.



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VIJAYA COLLEGE

R. V. Road, Basavanagudi, Bengaluru 560004

DEPARTMENT OF MICROBIOLOGY

EXPENDITURE STATEMENT OF ADD-ON COURSE ON PRODUCTION OF ADVANCED BIOFERTILIZERS & FIELD APPLICATIONS

No. of Students enrolled	Amount collected per student	Total amount collected	Amount spent	Balance Amount pending
37	Rs. 1,000/-	Rs. 37,000/- (Deposited in MC account of Canara Bank, Vijaya College camous branch)	Rs. 9,250/- (250 per student X 37 students For Certificate training course at Biocentre) Yet to receive amount from MC	Rs. 27,750/-

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Head of the Dept. of Microbials VLIALYA COLLETING R.V. Road, Basayanayua BANGALORE - 500 004.



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Department of English





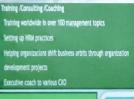
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Campus to Corporate –An add on Certification program

Period : Dec 21 to Feb 22

Professional Experience Corporate experience in Sales and Marketing Profit center management Brunit center management Entrepreseur with over 20 years in field of management consulting and training internationally Over 25000 hours of training and consulting experience Nore than 2,00,000 professionals trained and coached Consulting worldwide with 175 top-notch organizations across all verticals Authored management articles in global publications Currently facilitating business expansions for European organizations Ard Biogger, Policater, Author





Wiley WBTI - Step I and Step II practitioner Certified FIRO-8 practitioner Saville assessment international accredita Certified in Design Thinking for Innovation

About Author

Technocrat,

MBA International Business,

ICF Business Coach, Leadership Facilitator & Researcher,

Trained more than 200000 professional in 175 Organizations worldwide



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