



Bharatiya Vidya
Bhavan

Bhavan's Vivekananda College

of Science, Humanities & Commerce

Autonomous College - Affiliated to Osmania University

Accredited with 'A' grade by NAAC

Sainikpuri, Secunderabad - 500094



NAAC RE-ACCREDITATION - 2ND CYCLE

Criterion V: - Student Support and Progression

5.1.3

Capability Development and
Skill Enhancement Activity

2019-2020

Submitted to

National Assessment and Accreditation Council



Bhavan's Vivekananda College

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Sainikpuri, Secunderabad – 500094

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Autonomous College

BHAVANOTSAV-2019

An Inter - Collegiate Techno-Cultural Fest

August 2 & 3, 2019

Press Report

BHAVANOTSAV, the annual mega festival of **Bhavan's Vivekananda College, Sainikpuri** was held on August 2 - 3, 2019 with great exuberance and enthusiasm.

Over the years ,Bhavanotsav has gained immense popularity among the student fraternity. This year Bhavanotsav came up with a wide spectrum of enriching and exciting competitions and events in the field of science, technology, literature ,commerce, management art and culture. All the events were well conceived to win the hearts of the youth. Bhavanotsav aspires to provide a great platform for young students to exhibit their talent and to explore their true potential. It is also a great occasion for social bonding and camaraderie.

Under the banner **Bhasha Tarang** the Languages department organised a string of events in English ,Hindi, Sanskrit, Telugu and French. There were eight events in this category- *Draw the poem* , *Making a story out of newspaper cuttings*, *Sanskrit Gaanamritham*, *Padavinodam*,, *Treasure Hunt*, *Jam session*, *Connaissez la France* and *Les Mots Victorieux*. The events were designed to test the language proficiency, vocabulary and their imaginative skills. There were 50 team participants in each of the above events.

BHAVANOTSAV - 2019

BHASHA TARANG

Department of Languages

हिन्दी

తెలుగు

संस्कृत

French

ENGLISH

Formal Events

- Draw the poem
- Making a story from newspaper cutting
- Connaissez la France
- Sanskrit Ganamrith\Padvinodam

Informal Events

- Treasure Hunt
- JAM
- Les mots victorieux

Bhasha Tarang (Informal Event)

Bhavanotsav -2019

Date : 2nd August 2019
Venue : Room No. 72
(Biochemistry Block)
Time : 3:00 p.m.
Team Size : 2
Languages : English, Hindi & Telugu
Time Limit : 1 hour

Treasure Hunt

Note:

Participating team should know all the three languages- English, Hindi & Telugu

Participating teams should report at the venue on time.

For further information, contact: Mrs. Manali (9849241656)
Mrs. V. Lakshmi (9396395386)
Department of Languages

Bhasha Tarang (Formal Event)

Bhavanotsav -2019

Make a Story out of newspaper cuttings



Date : 2nd August 2019
Venue : Room No. 73
(Biochemistry Block)
Time : 1:00 p.m.
Team Size : 2
Languages : English, Hindi & Telugu
Time Limit : 1 hour

Event Description:

- Each team will be given a newspaper in the language of their choice and a chart paper.
- They are required to make a story or a theme giving it a title by only cutting pictures and letters from the newspaper and sticking them on the chart paper.

Participants should carry:

- Stationery- scissors, glue and scale.

Note: Writing of any sort and usage of pens, pencils, sketches etc. is strictly not allowed.

For further information, contact: Mrs. Annie Christina - 9989816556
Mrs. Prachi Nath - 9652832075
Department of Languages

Bhasha Tarang (Formal Event)

Bhavanotsav -2019

Draw the poem

Date : 2nd August 2019
Venue : Room No. 72
(Biochemistry Block)
Time : 12:00 noon
Team Size : 2
Languages : English, Hindi & Telugu
Time Limit : 1 hour

Event Description:

- The participants will be given a poem in the language of their choice.
- They are required to present the poem in the form of a drawing/painting.

Participants should carry:

Stationery for drawing / painting

Note: Paper for drawing will be provided.

For further information, contact: Mrs. Madhuri Mathur - 998905396
Mrs. S. Usha Rani - 9014113423
Department of Languages

Bhasha Tarang (Formal Event)

Bhavanotsav -2019



Date : 2nd August 2019

Venue : Room No. 73
(Biochemistry Block)

Time : 2:30 p.m.

Team Size : 1 (Individual Event)

Languages : English, Hindi & Telugu

Time Limit : 1 min.

Note:

- The participants will pick a topic from the box in the language of their choice.
- He/She is required to give an impromptu speech to express his/her ideas.

For further information, contact: Mrs. Swathina Sushil - 7013408480
Mrs. Prasitha Haridev - 9618401845
Department of Languages

Draw a poem :







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DEPARTMENT OF LANGUAGES

LANGUAGES DAY 2019-20

Languages Day events were conducted from 9th December to 13th December.

9-12-2019

The first event was the Literature based quiz conducted on 9th December, in Sanskrit, Hindi, Telugu, English and French. The idea was conceived and executed by a team of BBA students. 57 students participated as a team of 3.



10-12-2019

Rhyme Time was conducted in English, Telugu and Hindi on 10th December. Students were asked to choose a minimum of 3 words from the 8 given to write poetry in their preferred language. 28 students took part in the event.



11-12-2019

Spellathon was conducted in 3 rounds on 11th December. Round 1 was based on vocabulary, in which the participants were supposed to solve crossword puzzles and unscramble the given words. 30 teams consisting of 2 members each participated in it. Round 2 was Spell Bee, where the students were supposed to write the spellings of 30 words in 15 minutes. Round 3 was Pictionary, in which a team member was supposed to convey to the other person, the meaning of a given word through drawing.





12-12-2019

Sanskrit-Word Building and Idioms & Phrases and French singing 'Le Rosignol' were conducted on 12th December. 7 teams of students participated in the French singing event. There were solo and group performances. The judges for the event were Ms. PrasithaHaridev, Department of Languages and Ms. Shanti Priya, Department of Mathematics. Word Building and Idioms and Phrases were also conducted on 12th December. In the Sanskrit Word Building event, students were given a cue word using which they were supposed to create a chain of words. In the recitation of Idioms & Phrases, students were given one minute time to recite as many Sanskrit Idioms & Phrases as possible, flawlessly. 8 students participated in Word Building and 6 students participated in recitation of Idioms and Phrases.





13-12-2019

The last event of the series was 'Making a story out of newspaper cuttings', which was conducted on 13th December. Students were supposed to create a story using the newspaper cuttings in one hour's time. English, Hindi and Telugu were the language options given. 20 students participated in teams of 2 each.



14-12-2019

Prize distribution was organized on 14th December. The Vice Chairman, Air Cmde.(Retd.) JLN Sastry, VSM; Guest for the event, Sri. Rangi Satyanarayana, TGT, Kendriya Vidyalaya, Uppal, Hyderabad; the Principal, Prof. Y. Ashok and Head, Department of Languages, Dr. C. Kameswari were the dignitaries who graced the occasion.





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Department of Languages

Report on English Skill Enhancement Activities (2019-20)

Various skill enhancement activities are conducted during the English classes. The activities are conducted on a regular basis throughout the academic year.

The skill focused on during Semester I is 'Speaking'. Speaking skills are enhanced through classroom activities like JAM and Group Discussions. Speaking Skill is also assessed as part of CIA I of Semester I.

Semester II focuses on Listening Skill. Practice is given in listening comprehension through the use of audio files. Listening Skills are assessed as part of CIA I of Semester II.

During Semester III, Reading Skills are honed through practice in reading prose, poetry and other kinds of texts. Reading Skills are assessed as part of CIA I of Semester III.

Presentation Skills are enhanced during Semester IV. Students are given tips on making effective presentations (Oral/Poster/PPT). Presentation Skills are assessed as part of CIA I of semester IV.

Conversation Skills, Soft Skills and Value Orientation are a part of the curriculum of Semesters I and II. Essay Writing and Report Writing are a part of the curriculum for Semester III and CV Writing and Review Writing are taught as part of the curriculum of Semester IV.

A software named 'Issues in English 2' has been introduced in the academic year 2019-20 to provide an interactive learning experience to the students. It comprises exercises on listening, grammar, vocabulary etc. to build competency in the use of English.



Speaking Skills



Speaking Skills



Listening Skills



Reading Skills



Presentation Skills



Conversation Skills



Soft Skills and Value orientation



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DEPARTMENT OF LANGUAGES

PLOGGING – The Cool Thing - 2019

Mr. Ripu Daman Bevli – The Plogman of India, visited Bhavans VivekanandaCollege, Sainikpuri on 30th September 2019. He is a solo traveller, entrepreneur, athlete and an enthusiastic plogger. He has been working on cleaning up our nation for the past two years. He is an athlete and participates in various marathons such as TATA Mumbai Marathon. Besides this, he has a record of the longest run of 48,000 KM across the country. He was recently featured on the radio show “Mann Ki Baat” with our honorable Prime Minister, Shri Narendra Modi and discussed the key issues of single–use plastic.

The students were overwhelmed by his visit to the college. He introduced them and the attending faculty to the concept of “PLOGGING” which basically means Cleaning while exercising your body physically. He briefed the students on the ways in which we blame the society for the litter around us but do not make an effort to clean it instead. He also suggested a three-step formula to keep our surroundings clean through the use of trash bins and segregation of wastes. He inspired the students to trend the Hash tag “#PlasticUpvas” which bans the use of single-use plastic, including straws that generate waste. His mission statement – “Clean up other people’s litter” emphasizes on cleaning up the litter around us irrespective of whom it belongs to. His current mission – “RElan” i.e. Run to Make India Clean is the longest drive. Students were very inspired by his thoughts and mission and took a pledge to ban the usage of plastic. Ripu Daman’s talk was followed by a Plogging session where around 300 students participated actively to pick up litter around the college. The event turned out to be successful in inspiring all the students to implement his ideology. The press and media covered the complete event including the Students’ feedback. Overall, it was a stimulating event conducted under the guidance of Ms. Prachi Nath, Ms M Anila and Ms Prasitha Haridev from the Dept of languages.

Prof. Y. Ashok, Principal, BVC, and Dr C Kameswari lauded and encouraged Ripu Daman’s approach, which filled the students with a lot of energy and enthusiasm.



Figure 1: Students taking oath to keep their surroundings clean along with their physical fitness



Figure 2: Talk by Ripu Daman on the benefits of physical fitness in mind while keeping the surrounding clean



Figure 3: Felicitating Ripu Daman after his motivating workshop



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DEPARTMENT OF LANGUAGES

Menstrual Hygiene Management – A Guest Lecture- 2019

An awareness talk on Menstrual Hygiene Management was held at the Seminar Hall on Monday, 23rd December 2019. The target group was the faculty and all female students of the college. The guest speakers were Mrs Bhanu Pradeep, and Mrs Padmaja – CEO of Suraksha Pharma, who are conducting the Red Express campaign covering all females from menarche to menopause. They are working in association with Bharat Vikas Parishad, Sarojini Mahila Branch, and Suraksha Pharma's Corporate Social Responsibility activity, under which they are conducting menstrual hygiene management (MHM) sessions across the state of Telangana. Simultaneously, they are also promoting sustainable alternative menstrual management options that include reusable sanitary napkins and menstrual cups, and guiding girls and young women on cyber safety.

Mrs Bhanu had an interactive session with 120 students and faculty who attended the programme. She explained about the myths and the science behind the menstrual cycle and suggested ways to take care of our personal hygiene.

While Mrs Padmaja shared with us, few phone numbers and email addresses to be contacted if our cyber space is being compromised.

Mrs Bhanu and Mrs Padmaja were delighted to see the response they received from the students, and hope to conduct more such sessions for the students and the faculty. They were also received well by the Principal – Dr Y Ashok. Dr C Kameswari – Head, Department of Languages, was very encouraging and promised to hold more such sessions to bring about an awareness on personal hygiene amongst the female students of the college.



Figure 1: Mrs Padmaja giving a talk on Menstrual Hygiene and Cyber Safety

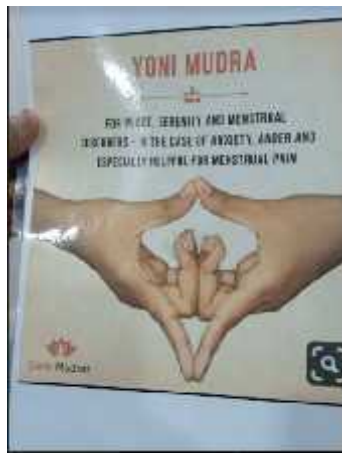


Figure 2: Yoni Mudra to help women who suffer from cramps during their Period



Figure 3: The audience keenly listening to the tips given by Mrs Bhanu

Health Camp-2019

30th and 31st of August 2019

The Medical and Health Committee of BVC in association with Department of Biochemistry organized a health camp for the staff and students of BVC on 30th and 31st of August, 2019. The health camp was in association with Vimta Labs, Hyderabad. The tests in this health camp included Master Health checkup, Complete Health checkup, Diabetic screening, complete blood picture, glycosylated hemoglobin, fasting blood glucose, lipid profile, thyroid profile, calcium, uric acid, vitamin D and B₁₂ levels. These parameters are useful in assessing and having a follow up with ones' general health condition. A total of 155 people that included teaching(33), non-teaching staff (14) and students (108) got their tests done.

The health camp received a very good response from staff and students indicating an emerging health awareness among them.





Health Camp held on 30th & 31st August, 2019
List of students participated

S.No	Roll No	NAME
1.	107218514002	SURYA LALITHA ADIRAJU
2.	107218514003	B KAVIYA PURNIMA
3.	107218514004	CH DURGA SATYA DEEPTHI
4.	107218514006	D NAGA JYOTHI
5.	107218514008	INTURU SAI TEJASWINI
6.	107218514009	JADALA NAGAJYOTHI
7.	107218514010	JAVVAJI THIRUMALA
8.	107218514011	K L GOURIAISHWARYA
9.	107218514013	KURUVA RAMASAI
10.	107218514014	LELLA GAYATRI
11.	107218514015	M ROHIT KUMAR
12.	107218514016	MALA RAVI KUMAR
13.	107218514018	MOHAMMED JUWERIYA TAHSEEN
14.	107218514019	MUDIGONDA CHANDANA
15.	107218514021	PARAMESHWARI BANOTH
16.	107218514023	PORIKA RAHUL NAIK
17.	107218514024	POTLURU SREE VYSHNAVI
18.	107218514026	RAAGI SHIVANI
19.	107218514027	RACHAKONDA SAITEJA
20.	107218514028	SADURGAM VAJAYANTHI
21.	107218514029	SANDHE PUSHPA
22.	107218514030	SHAISTA NAGHMA
23.	107218514031	SOWMYA JAI KUMAR SREEJA
24.	107218514033	SUCHARITA NANDY
25.	107218514035	V SAI CHANDANA
26.	107218514036	V VAISHNAVI
27.	107218514037	VADTHIYA KALYAN
28.	107218514038	RAPARTHI SUBASH CHANDRA BOSE

A. Sai Reddy
Head, Dept. of Bio-Chemistry
Shivan's Vivekananda College
Sinnikurt, Secunderabad-500 001

Free Diabetes Camp 15th February, 2020

Medical and Health committee along with the Department of Biochemistry and NSS unit, BVC organized a medical camp on diabetes for teaching and non-teaching staff, students and residents of local community on 15th February, 2020. As a part to create awareness there was a talk organized by Dr.K. Srinivas Rao, Diabetologist on "Risk factors and prevention of Diabetes". This was followed by free testing of random blood glucose levels for all the participants. All the participants availed the free service and the programme received a good appreciation.



A. Sai Dad
Head, Dept. of Bio-Chemistry
Bhavan's Vivekananda College
Sainikpuri, Secunderabad-500 094

List of students participated

S.No	Roll No	NAME
1.	107219514001	AGGU MANISHA
2.	107219514002	ALLAMLA VIKRAM
3.	107219514003	APPAREDDY DEEPTHI
4.	107219514006	DUDEEDA SPANDANA
5.	107219514008	JANAGAMWAR AKANKSHA
6.	107219514009	K VANEESHA
7.	107219514010	KADIRE VINCENT TAGORE PAUL
8.	107219514013	MALOTH SAI KIRAN KUMAR
9.	107219514014	MARRI NITHINKUMAR
10.	107219514015	MUSHMEER NAVYA
11.	107219514016	NAGUNOORI SWETHA SRI
12.	107219514018	PATANGE PRAGATHI
13.	107219514019	POLA SRILATHA
14.	107219514020	SAGGU HIMAJA
15.	107219514024	TUNGA RAMYA
16.	107217471029	JAYALAXMI.V
17.	107217471032	GEETHA.K

A. Sai Jody

Head, Dept. of Bio-Chemistry
Bhavan's Vivekananda College
Sainikpuri, Secunderabad-50



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Report on INSTITUTIONAL VISIT TO AIR FORCE ACADEMY,DUNDIGAL

<u>SN</u> <u>o</u>	<u>Particulars</u>	<u>Description</u>
<u>1</u>	Name of the event	Institutional visit to Air Force Academy,Dundigal
<u>2</u>	Date(s) / Time	28/01/2020
<u>3</u>	Venue	Air Force Academy, Dundigal.
<u>4</u>	In collaboration / association with	2 TELANGANA BN NCC AND Air Force Academy, Dundigal.
<u>5</u>	Total Number of participants	SD-30 SW- 21 ANO-01 PI STAFF- 02 TOTAL-54
<u>6</u>	VIP(S) PRESENT	Sqn Idr Pratush, WO Narender Kumar and WO Pandey and WO Tiwari.
<u>7</u>	In charges (if any)	TS17SWA100941 JUO G.SIRISHA TS17SDA100965 JUO VAIBHAV MULE
<u>8</u>	Highlights	1) A group of cadets consisting of 1 st ,2 nd and 3 rd years reported at college at 6:00am. 2) Started for AFA in chapter at 7:25am . 3) Lt.Dr.V.Venu Madhav,ANO 12/2 coy,NCC and Sub Dinesh arriving at their destination at 8:15am 4) They were received by WO Narendra Kumar ,who was also their guide throughout the visit along with SGT Animesh Das of the Education Section. 5) They were addressed by Sqn IDR Pratish about AFF and Armed Forces and we're Shown a video on the Academy life. 6) visited Academy Museum where they Were received by WO Pandey. 7) Next stop was 6 Tetra school where they learned about the working mechanism of the engine of Kiran MK I and MK II. 8) Cadets were taken to the Hanger. 9) WO Tiwari briefed about the flight training of the cadets in the Academy.





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REPORT ON awareness programme on Energy conservation for sustainable living

NAME OF THE EVENT : Awareness Programme On Energy Conservation For Sustainable living

DATE : 21-12-2019

VENUE: Room No 71 – Bio-chemistry block, BVC.

IN COLLABORATION WITH: Centre of Plant engineering services a division of Indian Institution of Plant engineers TA &AP Chapter and Science club, NSS, BSG and Grenergy Club.

PARTICIPANTS : 140 STUDENTS INCLUDING NCC CADETS (80 SDS 20 SWS) OTHERS 20 BOYS and 25 other guest and staff were present.

INCHARGES : SUO Rohit Rupakula and SUO P Divya



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Report- Guest Lecture on Career in Armed Forces

SNo	Particulars	Description
1	Name of the event	Guest Lecture on career in Armed Forces
2	Date(s) / Time	11/07/2019 10.00 am to 12.00 noon
3	Venue	Bhavan's Vivekananda college of Science , Humanities and commerce Sainikpuri
4	In collaboration / association with	12/2 COY 2 T BN NCC, CGPC-BVC, I EME CENTRE SEC-BAD
5	Total Number of participants	Bhavans Vivekanada College SD-90 SW- 70 Others- 40 TOTAL-200
6	VIP(S) PRESENT	Capt. C P Jewnani, I EME Center
7	In charges (if any)	TS17SDA100958 CDT D. Pavan Kumar
8	Highlights	(1) Speech on the role of the Indian army and career in the Armed Forces which includes the various entry scheme. (2) Spoke about the differences between the Army and Corporate Life and also about SSB Procedure.



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Report – Institution visit to L & T Metro Rail

<u>SNo</u>	<u>Particulars</u>	<u>Description</u>
<u>1</u>	Name of the event	Institution visit to L & T Metro Rail
<u>2</u>	Date(s) / Time	24/04/2019
<u>3</u>	Venue	Hyderabad Metro Rail (L&T Metro) central command office at Nagol.
<u>4</u>	In collaboration / association with	.Bhavan's Vivekananda college of Science , Humanities and commerce Sainikpuri has extended their facilities to L & T Metro Rail, Hyderabad.
<u>5</u>	Total Number of participants	Bhavans Vivekananda College SD-36SW-29 ANO-01 PI Staff- 01 Total- 67
<u>6</u>	VIP(S) PRESENT	
<u>7</u>	In charges (if any)	SUO P.Divya SUO Rohit Rupakula CSM Shriya Reddy
<u>8</u>	Highlights	<ol style="list-style-type: none"> (1) SUB Jagsir Singh visit the Metro Rail along with the cadets. (2) Visiting team was split into 2 groups, one group is headed by Mr.Nyathani Sudheer Kumar, AGM-HR (L&D) and another team is headed by Mr B.Venugopal, AGM-Engineering. (3) Capt. K. Ravinder Reddy, Joint General Manager Security accompanied the teams explained the functioning of security systems. (4) Mrs. Sarika Reddy, and Mr Mallesh from Marketing dept have coordinated this guided tour. (5) Teams were taken to various strategic establishments like simulors, metro station/tracks replicas and central control centers, etc. (6) They explain the history origin, growth and development of L &T, current position in the market, divisions areas of growth. (7) At the end of the Event Mr. Anil Kumar Saini, chief operating officer railway systems, L&T Metro Rail, appreciated and congratulated the visiting team for such an initiative.





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Department of Microbiology

Report on Mushroom cultivation workshop

Department of Microbiology in collaboration with S Mushroom Agri tech, Kukatpally organized a two day workshop on Mushroom cultivation for M.Sc final year students on 4 & 5th July, 2019. Dr.Smrithi Bajpai and Dr.J.Sarada accompanied 34 M.Sc final year students for the two day workshop.

On 4th morning, Dr.K. Prasuna, CEO of 'S' Mushroom cultivation briefed on her experience as entrepreneur and on Significance of Mushroom cultivation and methods involved . Day started with the basic knowledge on stages in Mushroom growth , environmental factors influencing their growth, farm design . After basic knowledge, hands on exposure is given to students in preparation of Bed for Milky Mushrooms, Oyster, Paddy straw and Button Mushroom , sterilization of raw materials and spawn preparation and Layer spawning etc.



Second day, Hands on training was given to students in mushroom harvesting, processing and storage . Budget for starting mushroom cultivation as small scale industry was also discussed. This workshop had provoked entrepreneurial skills and motivated students to think about start ups in this area. Different products of Mushroom like –Biscuits, noodles , pickles, Soup powder, dried and fresh mushroom were exhibited in the workshop. After successful completion of the programme , students were given with certificates .



Department of Microbiology

Report on Mushroom cultivation workshop

Department of Microbiology in collaboration with S Mushroom Agri tech, Kukatpally organized a two day workshop on Mushroom cultivation for B.Sc (MGC, MBiC, BtGC) final year students on 19th & 20th Dec, 2019. Mrs.S.Chaitanya kumari and Dr.Narayan rao accompanied 20 students for the two day workshop under skill enhancement program.

On 19th morning, Dr.K. Prasuna, CEO of 'S' Mushroom cultivation briefed on her experience as entrepreneur and on Significance of Mushroom cultivation and methods involved. Day started with the basic knowledge on stages in Mushroom growth, environmental factors influencing their growth, farm design. After basic knowledge, hands on exposure is given to students in preparation of Bed for Milky Mushrooms, Oyster, Paddy straw and Button Mushroom, sterilization of raw materials and spawn preparation and Layer spawning etc.

Second day, Hands on training was given to students in mushroom harvesting, processing and storage. Budget for starting mushroom cultivation as small scale industry was also discussed. This workshop had provoked entrepreneurial skills and motivated students to think about start ups in this area. Different products of Mushroom like –Biscuits, noodles, pickles, Soup powder, dried and fresh mushroom were exhibited in the workshop. After successful completion of the programme, students were given with certificates.



Report

Industrial Visit to NATCO Pharma

An industrial trip for B.Sc Microbiology students was organized by Department of Microbiology on 27.7.2019, to NATCO Pharma Limited-Parenterals Nagarjuna Sagar, Nalgonda district. Students were given awareness on the Good lab practices and Good manufacturing practices that are followed in the pharmaceutical industries. Procedures followed as part of the Quality control and Quality assurance were also explained. About 80 students were taken for the visit to NATCO.

The students visited different labs and instrumentation rooms. Various levels of bio safety and stages involved in the pharmaceutical manufacturing were introduced. This visit covered different aspects of Parenterals like batch mixing area, Store area, packing section, Quality control lab, Microbiology lab, Instrumentation room, Chemical laboratory, Retention sample room and Water filtration unit etc.

Students were also demonstrated with various instruments and techniques like Lyophilisation, HPLC, Polarimeter, Muffle furnace, Fume hoods, Sonicators, Vacuum oven, auto-titrators, Endotoxin test, Membrane filters, Laminar air flow with isolators, Water filtration unit and Distilled water plant (use of sand filters, carbon filters, anion and cation tanks for water purification).



DEPARTMENT OF MICROBIOLOGY

Hands on workshop on “Exploring Microbial Diversity

Hands on training workshop on “Exploring Microbial diversity” was organised from 16th to 21st September 2019. The workshop is organised for students of 2nd year Undergraduate students in Microbiology in collaboration with Dr. Reddy’s Institute of Life sciences (DRILLS), HCU under DBT star college scheme. Total 30 students from both the programs of MGC and MBiC were enrolled in the workshop. Dr.K.Anuradha, Dr.J.Sarada, Mrs.S.Anju, Dr.Y.Aparna, Dr.S.Shalini Devi were resource persons for the workshop. Dr. Anil Kumar Challa, Adjunct Professor from UAB university, USA was the resource person for Bioinformatics module.

The students learnt different microbiological and molecular techniques like Screening of bacteria from various samples like Milk, Spoiled fruits and vegetables, Cow dung, Soil sample from lake side etc. The isolated colonies are subjected to colony PCR and Agarose gel electrophoresis for identification of DNA. They also learnt RFLP digestion followed by its analysis using Bioinformatics tool. An online Zoom conference an interactive session with Dr. Anil Kumar Challa on Bioinformatics components was organised.

The workshop was successful as all the students took active participation and also had good hands on training individually.



Report on Educational Field Trip to Grover Zampa Vineyard at Bangalore and Coorg

Department of Microbiology organized four day educational field trip from 3rd December to 7th December, 2019 for 34 of the M.Sc final year students to Coorg, Via Bangalore and Mysore. This field trip/ visit was planned to educate the M.Sc students with practical methods of wine fermentation production at one of Premier Institute in South India. Grover Zampa Vineyards located in Bengaluru, has well established wine production plant established in 1940. It has branches located at Nashik, Maharashtra and Nandi hills.

On 4th December students visited the winery, which owns 450 acres of Grape vineyard and cultivate special variety of grapes exclusively for wine preparation. After a brief history and information about vines and vineyard cultivation, students first visited automatic grape crushing unit, then proceeded to understand the industrial processing of filtration, fermentation and wine storage. Mr. Vipin Singh had explained in detail about the sequential steps involved in wine making good reasoning. Two types of wines i.e white and red wines are generally produced and with their combinations in different proportions they make 32 other different types of wine and supply to 25 countries annually. Company has 185 Stainless steel Fermenters specially designed to resist heat production during anaerobic fermentation process. Barrel room facility is used to age premium brand of wine in imported oak barrels which is mostly used as conventional process of wine making. The industry has latest imported machinery for bottling, labeling, and packaging of alcohol bottles. Visit to Winery has helped the students to understand practically the industrial fermentation process of wine making by both conventional and modern methods.



Industrial processing unit of Wine at Grover Zampa



Vine yard for grape cultivation



Crushing and processing Unit



Conventional pot process



Modern fermentors



Bottling unit

On 4th evening, students were taken to one of the largest ISKCON temples in the world (International Society for Krishna Consciousness) in Bangalore for sightseeing.



On 5th December morning visited very old *Sri Ranganatha Swamy temple*, located in Srirangapatna. This temple has huge area with typical Dravidian style of temple architecture. On the way to Coorg, students were taken to see famous *Namdroling Nyingmapa Monastery* (or Thegchog Namdrol Shedrub Dargye Ling) is the largest teaching center of the Nyingma lineage of Tibetan Buddhism in the world. Idols are layered with gold hence the name golden temple. This temple is famous for the 3 giant idols with great sculpture and architecture.



On 5th evening students were taken to most popular tourist spot *Raja Seat* in Madikeri of Coorg district. A spectacle of layers of greenery, chain of high and low rise mountains attired with mist is great attraction and a place worth visiting. This Raja garden was favourite for the Kings of Kodagu, who used to watch the setting of sun. Students spent time in watching the beautiful sunset and it was a sight to behold.



Students visited *Tala Cauvery* on 6th December, which is the birth place of Cauvery river which is worshipped as important pilgrimage. This place is 3780 feet high from the ground level and has scenic beauty and spiritual environment.



While returning from *Tala Cauvery*, students also visited popular *Baghmandaleswara Temple* and *Triveni sangamam* on the way.



6th afternoon students reached Mysore and visited Popular *Mysore Maharaja Palace* which is a historical place and a loyal residence at Mysore. This place was built around 14th century, but the new existing palace was built in between 18th – 19th century after the old palace was burnt. It is surrounded by 12 temples. The architectural style of the palace is Indo Saracenic, with blend of the Hindu, Mughal, Rajput and Gothic styles.



Educational and sightseeing trip was concluded on 7th December with the darshan of goddess Chamundeshwari at Chamundi Temple located on the top of Chamundi Hills about 13 km from the palace city of Mysore. It is one among the 18 Maha Shakti Peethas. Almost at all places students collected soil and water samples for Biodiversity analysis and for project work. Through the trip students enjoyed their journey with dance and Music. It was one of memorable trip they made during their post graduation.



Value Added Course at StarTech Laboratories Pvt. Ltd.

16th – 21st December, 2019

Department of Biochemistry has organized a Value Added Course for 2nd year M.Sc students from 16th – 21st December, 2019 at StarTech Laboratories Pvt.ltd, Madinaguda, Hyderabad. Students were given detailed knowledge of different instruments and techniques that are routinely used in Pharma industries and in the labs associated with scientific analysis. Students had a thorough training in loss on drying (LOD), COD (Chemical Oxygen demand), BOD (Biological oxygen demand). X- Ray Diffraction (XRD) which is a rapid analytical technique, primarily used for phase identification of crystalline material providing information on unit cell dimensions. Students were also trained in HPLC technique which is used in analytical chemistry to separate, identify, and quantify each component in a mixture. The importance of instruments like sound level meter, noise dosimeter, indoor air quality, oxygen and anemometer in industrial hygiene were also demonstrated. Students also had a chance to learn in detail the Gas chromatography (GC) technique which is used in analytical chemistry for separating and analyzing compounds that can be vaporized without decomposition. Overall, the course had been very useful for students in learning various analytical techniques that are carried out in Pharma industries.







StarTech Workshop

(16/12/2019 - 21/12/2019)

List of students:

- 1) A. L. Pavani
- 2) A. Surya Lalitha
- 3) B. Kaviya Purnima
- 4) Ch. Deepthi
- 5) D. Naga Jyothi
- 6) J. Naga Jyothi
- 7) J. Thirumala
- 8) K. L. Gowri Aishwarya
- 9) K. Rama krishna
- 10) K. Rama Sai
- 11) L. Gayatri
- 12) M. Rohit Kumar
- 13) M. Ravi Kumar
- 14) M. Suraj
- 15) Juweriya Tahseen
- 16) M. Chandana
- 17) O. Vaishnavi
- 18) P. Rahul Naik
- 19) P. Sree Vyshnavi
- 20) S. Vajjyanthi.
- 21) S. Pushpa
- 22) Shaista Nagma
- 23) J. S. Sowmya
- 24) V. Sreekar
- 25) Sucharita Nandy
- 26) V. Sai Chandana
- 27) V. Vaishnavi
- 28) R. Subhash Chandra Bose
- 29) R. Roshini

A. Saijath
11/12/19.

Report on National Seminar “Eco-friendly strategies for Sustainable Environment”

28th and 29th February, 2020

The faculty of Life sciences (Departments of Chemistry, Microbiology, Biochemistry, Genetics & Biotechnology) of Bhavan’s Vivekananda College conducted a National Seminar on “Eco-friendly strategies for Sustainable Environment” on 28th and 29th February, 2020. The seminar was organised to celebrate National Science Day under DBT-Star College Scheme. Environmental sustainability is a fundamental requirement to avoid depletion and degradation of natural resources. Developing effective strategies for maintaining the balance in natural environment is the need of the hour.

The chief guest of the seminar was Prof. K. Janardhan Reddy, Regional Coordinator of Telangana Academy of Sciences, Hyderabad Centre. The Guest of Honour of the event was Prof.Purshottam Reddy (Retd), Political Science Department, OU, Eminent Environmentalist, Academician and Development Activist. The seminar was presided by Sri I.Y.R. Krishna Rao, IAS (Retd.), Former Chief Secretary, Govt. of AP, Chairman, Bharatiya Vidya Bhavan, Sainikpuri Kendra and Air Commodore (Retd), J.L.N. Sastry, VSM, Vice Chairman, Bharatiya Vidya Bhavan, Sainikpuri, Kendra. Welcome address was delivered by Prof Y.Ashok, Principal, BVC. Dr.Madhumita Bhattacharjee, Convenor and Head, Department of Chemistry, BVC, presented the overview of the National Seminar schedule.

The chief guest for the valedictory was Prof.Shivaraj, Dean, Faculty of Sciences, Development & UGC affairs, OU, Hyderabad.

The two-day event comprised of technical sessions by eminent scientists and oral and poster presentation by enthusiastic participants. The seminar has got a huge participation that included 327 students, scholars and faculty members from various educational and Research Institutions within and outside Telangana.



Guest Lecture

The Health committee of Bhavan's Vivekananda College of Science, Humanities and Commerce organized a guest lecture on 22nd July, 2019. Dr. Pragnya Rao, Consultant ophthalmologist who pursued her fellowship in cornea and anterior segment at L.V Prasad Eye Institute spoke on Laser assisted in situ keratomileusis (LASIK) surgery which is an advanced correction technique to reshape the cornea changing its focusing power. She explained the students about the refractive errors and briefed on the LASIK surgery which is a precise and controlled removal of corneal tissue by a special laser. She also highlighted about the dry eye disease, its effects on vision and how it can disturb the quality of life and which when neglected can even lead to irreversible visual impairment. At the end of the lecture students understood the importance of the LASIK surgery and interacted with the speaker enquiring about their doubts regarding vision. About 120 students attended the guest lecture.





Visit to NIPER, Balanagar, Hyderabad
(National Institute of Pharmaceutical Education and Research)

The students of B.Sc final year (MBBCC) were taken for an educational visit to NIPER on 3rd December, 2019 under DBT-Star college scheme. . The students were shown the high end instruments that are used in science research programmes like HPLC, HPTLC, LC-MS/MS, SEM, NMR spectrometer, Zeta sizer for particle size analysis, Microfluidizer, Nano ball mill, fluorescence microscope and Confocal microscope. In the Regulatory toxicology department students were shown the tissue sectioning and fixation and automated differential blood cell counter. Animal house facility was also shown and explained about Rotarod test and YMaze test. Students interacted enthusiastically with the staff and the research scholars at the institute and were benefitted from the information provided. As part of this visit M.Sc final year Biochemistry students were also included. UG and PG students with a total number of 41 were taken



List of B.Sc and M.Sc students who visited NIPER

3rd December, 2019

S No	Roll No	Name Of The Student
1.	107217471001	APARNA U
2.	107217471002	NANNAPARAJU ARCHANA
3.	107217471003	BHUKYA KARAN
4.	107217471007	KARETI ANOOSHA
5.	107217471008	KORIDE MANASWINI
6.	107217471009	MANASA KANDURI
7.	107217471014	PRASANNA KUMAR THUMMALA
8.	107217471015	BHAGAVATHULA PRIYANKA
9.	107217471016	PUTCHAKAYALA TEJASWI
10.	107217471019	SHWETANG U
11.	107217471020	SOWJANYA DESHABATHINI
12.	107217471025	AFROZ ZEBA
13.	107217471026	DOMAKONDA RAJASHREE
14.	107217471028	JATIN SIROHI
15.	107217471032	K GEETHA
16.	107217471033	KANCHAN SINGH
17.	107217471035	MEGHANA PRAKASH
18.	107217471038	PAWAN
19.	107217471039	SAKSHI JAIN
20.	107217471043	M ALEKHYA
21.	107217471048	SATHVIKA KOTHURI

S.NO	Roll no	Name of the student
1.	107218514002	SURYA LALITHA ADIRAJU
2.	107218514004	CH DURGA SATYA DEEPTHI
3.	107218514007	GOWRARAM BHAVYA HARIKA
4.	107218514010	JAVVAJI THIRUMALA
5.	107218514012	K RAMA KRISHNA
6.	107218514013	KURUVA RAMASAI
7.	107218514014	LELLA GAYATRI
8.	107218514015	M ROHIT KUMAR
9.	107218514017	METTU SURAJ
10.	107218514018	MOHAMMED JUWERIYA TAHSEEN
11.	107218514019	MUDIGONDA CHANDANA
12.	107218514020	O VAISHNAVI
13.	107218514021	PARAMESHWARI BANOTH
14.	107218514023	PORIKA RAHUL NAIK
15.	107218514024	POTLURU SREE VYSHNAVI
16.	107218514028	SADURGAM VAIJAYANTHI
17.	107218514031	SOWMYA JAI KUMAR SREEJA
18.	107218514032	SREEKAR VATTEM
19.	107218514035	V SAI CHANDANA
20.	107218514036	V VAISHNAVI

H. Sai Bab
Head, Dept. of Bio-Chemistry
Bhavan's Vivekananda College
Sainikpuri, Secunderabad-500 094

Institute of Genetics and Hospital for Genetic Diseases
Value Added Course (25-11-2019 to 29-11-2019)

The Department of Biochemistry has organized a five-day Value-added course on **“Clinical, Molecular Diagnostic methods and Genetic Counselling”** for the students of B.Sc (MBBCC) at the Institute of Genetics & Hospital for Genetic Diseases, Begumpet, Hyderabad from 25th to 29th November, 2019. This programme is organized under DBT-Star College Scheme. Students were given exposure in the areas of Clinical Genetics, Cytogenetics, Environmental Toxicology, Molecular Biology, Clinical Biochemistry and Genetic Counseling.

In Clinical Genetics, students were briefed about the different pre-natal and post-natal diagnostic techniques, new born screening and about genetic disorders. They were also explained about the significance of Genetic counselling to the couples who are at increased risk of having a heritable disorder and the risk of transmitting it to their unborn offspring.

Students also learnt about Karyotyping, FISH and Micro-array techniques which are used for diagnosis of chromosomal disorders in new-borns while in the Cytogenetics lab they learnt about the DNA isolation techniques. Various types of PCR (Conventional, PCR-RFLP, Microsatellite repeats, SSCP, Allele-specific PCR, ARMS PCR) were learnt in Molecular Biology lab.

In Clinical Biochemistry lab, analysis of ceruloplasmin, TSH, 17-OH Progesterone and urine copper were learnt. The importance of HPLC in diagnosing Haemoglobinopathies was also demonstrated. Students had hands-on experience with some of the diagnostic techniques that are routinely used in biochemistry labs.





Bhavan's Vivekananda College of Science, Humanities & Commerce
Sainikpuri, Secunderabad - 500094
 Autonomous College - Affiliated to Osmania University
 (Accredited with 'A' grade by NAAC)

List of students for Value Added Course at Institute of Genetics, Hyderabad
 25th to 29th November, 2019

S. No	Roll No	Name of the Student
1	107217471001	Aparna U
2	107217471002	Nannaparaju Archana
3	107217471003	Bhukya Karan
4	107217471004	C Lahary
5	107217471005	Devi Priya Bashaboina
6	107217471007	Kareti Anoosha
7	107217471008	Koride Manaswini
8	107217471009	Manasa Kanduri
9	107217471014	Prasanna Kumar Thummala
10	107217471015	Bhagavathula Priyanka
11	107217471016	Putchakayala Tejaswi
12	107217471019	Shwetang U
13	107217471021	Sowmya Kolechelimi
14	107217471022	S. Ashwini
15	107217471023	N Ch Tanmayee Venugopal
16	107217471025	Afroz Zeba
17	107217471026	Domakonda Rajashree
18	107217471028	Jatin Sirohi
19	107217471031	Jennifer Duvvena
20	107217471032	K Geetha
21	107217471033	Kanchan Singh
22	107217471034	Kusuma P
23	107217471035	Meghana Prakash
24	107217471038	Pawan
25	107217471039	Sakshi Jain
26	107217471043	M Alekhya
27	107217471044	Manisha Roy
28	107217471047	Lekha Mudundi
29	107217471048	Sathvika Kothuri
30	107217471050	Kiranmayee Ampolu

A. Sai Pradeep

Head, Dept. of Bio-Chemistry
 Bhavan's Vivekananda College
 Sainikpuri, Secunderabad-500 094

Training in “Clinical Laboratory Diagnostics” at Vimta Labs

The students of B.Sc, Biochemistry were taken to Vimta Labs, Cherlapally, Hyderabad for observership to gain experience in clinical laboratory setup. This programme was organized under the DBT-STAR COLLEGE SCHEME for undergraduate students from 3rd September, 2019 to 9th September, 2019. In the Clinical Reference Laboratory (CRL), students were given an extensive understanding of the procedures and were shown about the sample collection, processing, barcoding and segregation of various samples. Students were demonstrated about the high end automation used in clinical laboratories. They were also explained and demonstrated about the chemiluminiscence immunoassays (CLIA) and serum protein electrophoresis. In the histopathology lab, they were shown the grossing, section cutting, staining and mounting of various biopsy samples. M.Sc Biochemistry students along with other life science students were also shown the same facilities to improve their diagnostic skills. Students have interacted with the staff and cleared their doubts. Overall, the training programme was an enriching experience to the students in terms of high level automation used in clinical diagnostics.





BHAVAN'S VIVEKANANDA COLLEGE

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3

List of B.Sc and M.Sc students to visit VIMTA LABS

Date	Roll No	Name Of The Student	Course
3 rd September, 2019	107218514002	Surya Lalitha Adiraju	M.Sc(Biochemistry)
	107218514003	B Kaviya Purnima	M.Sc(Biochemistry)
	107218514004	Ch Durga Satya Deepthi	M.Sc(Biochemistry)
	107218514006	D Naga Jyothi	M.Sc(Biochemistry)
	107218514007	Gowraram Bhavya Harika	M.Sc(Biochemistry)
	107218514009	Jadala Nagajyothi	M.Sc(Biochemistry)
	107218514011	K L Gouriaishwarya	M.Sc(Biochemistry)
4 th September, 2019	107218514012	K Rama Krishna	M.Sc(Biochemistry)
	107218514013	Kuruva Ramasai	M.Sc(Biochemistry)
	107218514014	Lella Gayatri	M.Sc(Biochemistry)
	107218514015	M Rohit Kumar	M.Sc(Biochemistry)
	107218514016	Mala Ravi Kumar	M.Sc(Biochemistry)
	107218514017	Mettu Suraj	M.Sc(Biochemistry)
	107218514018	Md Juweriya Tahseen	M.Sc(Biochemistry)
5 th September, 2019	107218514019	Mudigonda Chandana	M.Sc(Biochemistry)
	107218514021	Parameshwari Banoth	M.Sc(Biochemistry)
	107218514023	Porika Rahul Naik	M.Sc(Biochemistry)
	107218514024	Potluru Sree Vyshnavi	M.Sc(Biochemistry)
	107218514028	Sadurgam Vijayanthi	M.Sc(Biochemistry)
	107218514029	Sandhe Pushpa	M.Sc(Biochemistry)
	107218514031	Sowmya Jai Kumar Sreeja	M.Sc(Biochemistry)
6 th September, 2019	107217471034	Kusuma	B.Sc(MBBCC) Sem V
	107217471041	Sugandha Pathak	B.Sc(MBBCC) Sem V
	107217471042	Sunitha	B.Sc(MBBCC) Sem V
	107217471043	Alekhyia	B.Sc(MBBCC) Sem V
	107218471004	Harshit Mishra	B.Sc(MBBCC) Sem III
	107218471035	Raaga Yepuri	B.Sc(MBBCC) Sem III
	107218471036	Vyapti Nair	B.Sc(MBBCC) Sem III
7 th September, 2019	107218459003	C.B Harika	B.Sc(MGC) Sem III
	107218459006	G.Chaitanya	B.Sc(MGC) Sem III
	107218459010	L.Sravani	B.Sc(MGC) Sem III
	107218459019	Aishwarya B	B.Sc(MGC) Sem III
	107218459024	Megha	B.Sc(MGC) Sem III
	107218459030	S.Aishwarya	B.Sc(MGC) Sem III
	107218459047	J.Swati	B.Sc(MGC) Sem III
9 th September, 2019	107218459008	K.V.Vilasini	B.Sc(MGC) Sem III
	107218459029	Rashi Sarda	B.Sc(MGC) Sem III
	107218459034	Tanya Sharma	B.Sc(MGC) Sem III
	107218459036	Althea Rosalia Nargis	B.Sc(MGC) Sem III

total strength - 39.

A. K. Jada
Head of Bio-Chemistry
Bhavan's Vivekananda College
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Activities 2019-20

GUEST- LECTURE

The Department of Computer Science of Bhavan's Vivekananda College has conducted a Guest Lecture under DBT-Star College Scheme 7th September, 2019.

Mr P Rama Kumar, Solution Architect, Tech- Mahindra was invited as the Resource Person who spoke on Big Data Analytics and Hadoop for about 135 B.Sc(Physical Sciences) and BCA final year students.

The Resource Person focused on the Advantages of Big Data and how it could be useful for the Career of the students. The other points covered during the session were Implementation of Hadoop, No SQL, Examples of Big Data Analytics and few Hadoop tools.



Report on Industrial tour (20th January 2020)

NRSC Visit

On 20th January, 2020 Bhavans Vivekananda College visited the campus of **NRSC Outreach Facility, Jeedimetla** as a part of Educational trip for the BCA students of 2nd years and final years with a total of 53.

The students have cooperated very well from starting of the trip to the ending of the trip. It was started with the seminar about the satellites and communication between the satellites from the organization of ISRO . They have explained clearly how the communication will be going on in the organization , they have showed us the pictures which had been took from the Indian satellites exclusively. They even compared the pictures of American Satellites with our satellites.

After this, it was followed by the visiting the campus and they even exhibited the demo satellites of ISRO and explained about the parts of the satellites and functioning of satellites. It was followed by lunch and the trip was so impressive and knowledgeable.







Report on “Cyber Security and Ethical Hacking”

A 2-day International Workshop on “Cyber Security and Ethical Hacking” is being organized by Department of Computer Science, Bhavan’s Vivekananda College, under DBT-Star college scheme on 27th and 28th of February, 2020. A total of 319 students participated in the workshop.

The Day-1 began with the Inaugural session began at 10:00 am. The Chief Guest for the day was Prof. S Ramachandram, Former Vice-Chancellor, Osmania University.

The other dignitaries who were present for the Inaugural session were- Sri IYR Krishna Rao Garu, IAS(Retd.), Chairman of Bharatiya Vidya Bhavan, Hyderabad Kendra, Air Cmde(retd.). JLN Sastry Garu ,VSM, Vice-Chairman of Bharatiya Vidya Bhavan, Sainikpuri Kendra, Prof. Y Ashok , Principal of Bhavan’s Vivekananda college , Mrs. K V B Saraswathi Devi , Head, Department of Computer Science, various heads of the departments, faculty from various institutions, Research Scholars and students from other colleges.

The Chief Guest, Prof. S Ramachandram was also the Keynote speaker for the inaugural session, where he focused mainly on “Cloud Computing: Security Concerns of data on Cloud”.

The second session began by Mr. M Krishna, Assistant Director, Cyber Forensic Division of the Directorate of Forensic Science under the Ministry of Home Affairs, Government of India. This Session focused on “Cyber Security, Remedies and Research”. The Speaker, Mr. M Krishna spoke on the various types of Malware attacks and also suggested some remedies to overcome the attacks.

The third session and last session of the day was a “Hands-on Session” headed by Mr. Giridhar Duggirala , Principal Architect at Wells Fargo Pvt. Ltd. This session has been very interesting and useful and gave a practical experience on Ethical Hacking to the participants.

The second day was started with a video conference/talk with Mr. Barry nester CEO, Board Director, ARMOR Scientific, USA about “Cyber Security”. The speaker addressed the current issues in cyber world. He also suggested remedies to overcome attacks on user credentials. He suggested using Multi-Factor Authentication such as passwords along with biometrics.

The second session was on “Darknet Technology” where the speaker, Mr. Vinod Babu (Cyber Security Researcher and Trainer), spoke to the audience on “Dark Web” and Deep Web”. The speaker focused on the critical causes of information breach and security vulnerabilities that most of us are not aware.

The next session was conducted post lunch when panel of members Dr.M.V.Ramanamurthy, professor and Head, Dept. of Mathematics and Humanities, MGIT,Hyd, Dr.Sri.Venkatesh Muktevi, Associate Professor,Dept. of Computer Science, GITHAM University Visakhapatnam, AP, Ms.Shanthi Nimmagadda, Security Architect,IBM Security services, Hyd, Mr.K.Vishwanath, Vice President, Mahec consulting services Incorporation, Mr.K.Maruthi Prasad, Inspector of police and also alumni of BVC, Mr.N.Bhaskar, Lecturer in Dept. of Computer Sciencediscussed on the topic “Opportunities and Challenges in Cyber Security and Ethical Hacking”. It was an interactive session where panel members shared their views on “Cyber Security and Ethical Hacking”. They also answered the questions of some of the participants related to cyber attacks, other problems in cyber transactions and the solutions to overcome these problems.

The workshop ended with the valedictory session. The chief guest for this session was Dr. K. Seetharam Babu, Chairman, CSI, Hyd Chapter. The valedictory session also was graced by Principal, Prof Y. Ashok, BVC and Mrs.KVB.Saraswathi briefed on the 2-day International workshop. The chief guest Dr .K. SeethaRam Babu also addressed the students and faculty on the said topic. This was followed by distributing certificates to all the participants of the workshop-both to faculty and students from various other colleges.

There were total of 51 participants for bothe days which included 20 faculty and 31 students from institutions like Loyola Academy, Aurora PG College, CVR Engineering college, Badruka Degree College to name a few.

The vote of thanks was then proposed by Mr. G. Mahesh Kumar, Workshop Coordinator who thanked all the participants for making this workshop successful.

Report on Guest Lecture
“DATA SCIENCE and COMPUTER LANGUAGES”
Organized by Department of Computer Science
on 23-11-2019

The Guest Lecture was conducted for 84 of the M.Sc.(Computer Science) I and II year students. In view of introducing the U.G. program of Data Science, the department of Computer Science organized the guest lecture. Mr. Jayant D, Sr. Data Scientist, Deloitte, Hyderabad explained the following concepts related to Data Science.

- Introduction to Data and Data Science
- Applications of Data Science
- Relation between Machine Learning and Data Science
- Languages used in Data Science i.e. Python and R
- Highlighted the importance of Domain Knowledge with students
- Opportunities in Data Science field

His lecture was interactive and informative to learners and researchers.

(Bhaskar N)
Coordinator, M.Sc.(CS) Program, BVC

Report on Guest Lecture
“RED HAT LINUX ADMINISTRATION”
Organized by Department of Computer Science
on 5-12-2019 (12 noon to 2 pm)

The Guest Lecture was conducted for 84 of the M.Sc.(Computer Science) I and II year students. In view of introducing the value added course to P.G. students, the department of Computer Science organized the guest lecture on “RED HAT LINUX ADMINISTRATION” by Mr. Rajesh Digumarti, GLS and development instructor, RedHat, Hyderabad. He explained the following concepts to inculcate the awareness of Open Source Software:

- Introduction and history of Open Source
- Advantages of Open Source Software
- Red Hat Linux training modules
- Linux certification - depth and level of preparation required
- Linux projects, users and forum support to beginners

After the guest lecture, we also had a quiz conducted by M/s Amrita Technologies on general concepts and technical aspects. The department planned to introduce a workshop on Red Hat Linux Administration for 30 Hours to P.G. students.

(Bhaskar N)
Coordinator, M.Sc.(CS) Program, BVC



Bhavan's Vivekananda College
of Science, Humanities and Commerce
Sainikpuri, Secunderabad-500 094
(Accredited with 'A' Grade by NAAC)
Autonomous College - Affiliated to Osmania University

Report for the year 2019-20

Date: 14th February 2020

Venue: creamline diary products pvt ltd.,

SPEAKER: NA

Audience: BBA II YEAR STUDENTS. (sec A &B)

TOPIC: industrial visit

1. Name of the Participant(s) if the programme is conducted outside the college: NA
2. Name of the Department if the programme is conducted inside the college:
Department of Management Studies.
3. Workshop /Seminar /FDP /Refresher Course /Orientation Course/Others:
Industrial Visit
4. Title of the Workshop /Seminar /FDP /Refresher Course /Orientation Course/Others:
In case of Seminar:(Tick the correct option) NA
 - National - International
 - Presented - Participated

If Presented, enclose the Title of the presentation: NA

5. Date of the event: 14th February 2020
6. Place of the event: creamline diary products pvt ltd.,
7. Name(s) of the Resource person(s): NA
8. Description of the Event: (within 500 words with 3 relevant pictures)

Objectives of the Industrial visit:

-) To make the students aware of the practical job experience in a manufacturing unit.
-) To demonstrate how various concepts of management including assembly line techniques, functional foremanship work in an industry.
-) To demonstrate product mix through various processes like manufacturing, branding, packaging, labelling and recycling.

Overview of the trip-

- ❖ At our arrival, each student and faculty member was provided with a bouffant cap and a protective mask as a safety measure before entering into the industrial unit.
- ❖ The visit was broadly divided into 4 major sections-

1. Ice cream section-

This unit included 3 stageslikewise,

- **Ice cream production:** Huge installations and machines processed milk into fine ice creams through just a click of a button. There were workers employed to look after the smooth functioning of each machine.
- **Ice cream packaging:** Once the ice creams were prepared, they were packaged in various quantities from 100 ml to 1000 ml and shapes like cone, scoops, cups etc. A cone filling machine made the process easier by filling a cone, every 2 seconds whereas the cup/box packaging was done manually as 250 boxes per hour.
- **Hardening-** The ice creams were then, immediately shifted to a hardening room with artificially adjusted cold temperature to store the ice creams and prevent them from melting.

2. Butter processing section-

The second major section was the processing of butter through stages like-

- Raw cow's milk was put in a machine called '**separator**' that spins and divides the raw milk's fat from the rest of the liquid.
- The fats are called '**butter cream**', which were put in a bulk tank for 24 hours where it was **pasteurized**.
- It was then, transferred into a machine called '**churner**', that spins the butter, adding any flavour or salt needed for over an hour.
- It was then shaped and packaged ready for store shelves.
- The excess liquid from churning forms the milk for ice cream production whereas the liquid from separator machine is processed to create skim milk and curd.

3. Milk and curd processing section-

The milk was processed in heavy machines through major stages like,

- **Pasteurization-** This technique heats milk to 72°C for no less than 15 seconds, then cooled immediately to destroy any harmful bacteria.
- **Homogenization-** This stops the cream from separating and rising to the top of the container, allowing a more consistent texture and taste.
- **Centrifugal separation-** This removes some or all of the cream to make reduced-fat, low-fat or skim milk.
- **Ultra osmosis-** This is a combination of ultra filtration and reverse osmosis that holds back milk solids and allows both water and salt to pass through.
- **Packaging-** The processed milk is finally packaged in cans, tetrapacks etc.

Lactic acid was added to the processed milk in a huge machine and through the process of fermentation; curd was prepared and accordingly packaged.

- 4. Paneer, DoodhPeda and Badam Milk section-** Milk was heated and coagulated in large vessels which gave out-
- **Coagulum-** It was poured on a fine cloth and pressed, followed by water straining which made paneer.
 - **Khoa-** Further processed into doodhpeda.
 - The processed milk from the milk section was added with the badam(almond) flavour to give rise to **badam milk** which was packaged in reusable and recyclable glass bottles.

Outcome of the trip:

-) Students, now know the enormous processing efforts from heavy machinery to manual processes and from rich quality ingredients to attractive packaging techniques behind the daily consumed dairy products.
-) Importance of coordination with various sections and departments for the overall production is well understood.
-) Product mix through manufacturing, branding(Jersey), packaging and labelling is well-explained.
-) Most of the material used for packaging is either reusable or recyclable, making us realize the importance of fulfilling organization's social responsibility.





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Participant/Coordinator/HOD

Principal

A VISIT TO THE MANUFACTURING SITE OF YAKULT DANONE INDIA PVT. LTD IN SONIPAT HARYANA.

Subject: Industrial Visit

Student Coordinator: JerushaCarolyn

Department: Management Studies (MBA II)

Date: 09/01/2020

Timings: 1pm to 3pm

Faculty present on Industrial Visit: Ms Archana & MrMahendra

As rightly quoted "Travel is like a university without walls", thus, corroborating the quote, our department of management studies has organized an educational visit for the students.

The main aim is to have a better understanding of the intricacies involved when we apply the theoretical concepts learned. The student coordinators took initiative, contacted the industries through telephonic conversation and successfully convinced **Yakult DANONE** India Pvt. Ltd for the visit.

Yakult DANONE is one of the Largest selling probiotic drink, globally more than 40 million bottles are consumed daily in 40 countries and regions.



As we arrived it was such a professional environment, the PR manager Mr.Aadeshgave us a warm welcome then we had glance in a hall where all the achievements, locations and evolution frame of YakultDANONE were arranged in the ground floor.

Afterwards they directly took us to the manufacturing area, where they showed the students from the process of picking proper ingredients, analyzing them in a way where they have a grade system to send them to production only when approved and packaging system.

The following are Yakult ingredients water, skimmed milk, glucose-fructose syrup, sucrose, and live Lactobacillus Casei Shirota bacteria which are divided in individual sections. The first section was to check whether the milk can be used for consumption or not, later other ingredients are taken from their regular vendors except **Lactobacillus casei** which is species of genus lactobacillus found in the human urinary tract and mouth. Casei are used to prevent to treat diarrhea. This includes infectious diarrhea, traveler's diarrhea and antibiotic-associated diarrhea. It may also have some effect on other digestive problems and prevents constipation

They even explained **benefits** of yakult as to have healthy intestine which in turn leads to a long life and how it helps for a human body too have a better digestive system

Later they showed **how** the ingredients are mixed and packed in bottles, which are manufactured at the same place and the machine they use produces 1 million bottles per day. Then the last stage is the liquid drop, packaging of the yakult,

the outer wrap of yakult everything is automated. There we observed less manpower and more of technology, infrastructure is used, by the time we came to an end of the plant visit it took around 1hr40mins.

After the first session was finished, yakult manager led us to the AV room where he presented yakult history and the importance of the ingredients present in yakult and how important, helpful it is to the present era of busy life and inverted lifestyle



Meanwhile by the end of the session's students were given yakult probiotic drinks as goodies to taste the magical drink for stomach [red cap bottles for the sweet tooth and the blue cap bottles (low sugar content) for the health-conscious people]

Lastly everyone was given a chance to clarify their doubts and gave feedback. With vote of thanks our session came to an end



With the coordination of faculty members and students we successfully completed our visit.

A VISIT TO THE MANUFACTURING SITE OF PARLE G BAHADURGARH, HARYANA.



Subject: Industrial Visit

Coordinator: Jerusha Carolin

Department: Management Studies (MBA II)

Date: 08/01/2020

Timings: 12pm to 2pm

Faculty present on Industrial Visit: Ms Archana & Mr Mahendra

As said by Francis Bacon that “**Travelling in the younger sort is part of education, while in the elder sort it is part of experience**”, thus, corroborating the quote aforementioned our department of management studies has organized an educational visit for the students.

The main aim is to have a better understanding of the intricacies involved when we apply the theoretical concepts learned. The student coordinators took initiative, contacted the industries through telephonic conversation and successfully convinced PARLE G for the visit.

Parle-G is a renowned brand of biscuits manufactured by Parle Products in India. According to a Nielsen survey of 2011, it is the best-selling brand of biscuits in the world.



Firstly **PARLE G** Management was very welcoming and it started off with the digital introduction in very creative manner as they explained all their history through some amazing animation characters which began with Parle Products (1950s) owners Vijay, Sharad and Raj Chauhan (founders of the brands **Parle-G**,

20-20, Magix, Milkshakti, Melody, Mango Bite, Poppins, Londonderry, Kismi toffee bar, Monaco and krackjack) their idea to start this particular industry. Also, some amazing known and unknown facts of Parle G such as at a point it was the only biscuit company and they were many people trying to copy their brand which might have affected their sales.

Production aspect 400 million Parle-G biscuits are produced daily, further also stressed about how they evolved over time pictured all their journey in making new products under their brand in detail. At the end of the presentation summed with the following points on what we have to focus and learn from Parle products

-) If you want to get recognition, hard work is necessary
-) With hard work and dedication, anyone can become great
-) To become great you should not compromise, take no shortcuts and to never copy anyone
-) Always keep trying to better yourself
-) Keep learning new things because there is no limit in acquiring knowledge



After the above session was completed, we moved to our primary session of manufacturing area where they gave instructions not to use or take any images and made us to view all the processes in a sequential manner. No one was allowed inside except the employees for hygiene purposes but they didn't miss any unit, explained and showed the infrastructure, the machines, packaging, environment, how the employees handle the machines, how they use their broken/waste/damaged/expired biscuits and all the hygienic methods they adapt to deliver the final product.

Also, the site we visited is the only manufacturing unit in India, which manufactures biscuits and chips, we the students of bhavans felt privileged just knowing that fact. To complete the whole visit, it took around 1 hour 45 mins.

We were back to the start place where PARLE PRODUCTS associate Ms. Haneesh gave students the freedom to ask the important and unimportant Queries, with utter patience she answered all the questions. Later we gave feedback of our visit at the end of the session. Lastly, they gave a sendoff with Parle Goodies.



With the coordination of faculty members and students we successfully completed our visit.

Report on Internship Program- IOG 2019

A four week training programme was conducted for the second Year Undergraduate students at Institute of **Genetics and Hospital for Genetic Diseases, Begumpet** from 22nd April 2019 to 18th May 2019. A group of 17 students attended the training programme. The students were grouped into four teams with each team comprising of 3 students. They were allotted different labs for a week. Each team was then allotted the next labs in turns thereafter. There were five divisions namely **Clinical Genetics, Clinical Biochemistry, Toxicology, Molecular Biology and Cytogenetics**.

In the **Clinical Biochemistry** division, the students were briefed on the importance of biochemical investigations on the role of their significance and relevance to Genetic Disease. **Thyroid profiling, Lipid Profiling, Glucose profiling, and Liver Profiling** were done by the students on the samples provided by the patients visiting the Hospital. After performing the experiments the students were also trained on the analysis of the results obtained. The students also could relate the results to the clinical significance in terms of predisposition to genetic disorders.

As part of the new born screening tests, the **Wilson test Profiling**, comprising of estimating the levels of **Serum Ceruloplasmin, Serum Copper and Urine copper**. Students were instructed on the usage of **Automated HPLC** for the detection of Autosomal recessive disorders like **Sickle cell anemia** and **Thalessemia**.

In the **Molecular Biology Division** , students performed **Polyacrylamide and Agarose Gel electrophoresis**. They also had the opportunity to Visualize the **Thermocycler, Gel documentation Unit**. They learnt the different methods of DNA extraction.

At the **Clinical Genetics Division**, the students were taught the concept of **Probability, Risk Calculation, Significance of pedigrees** and the different **Prenatal Diagnostic techniques** for the purpose of **Genetic Counselling** to the patients who had a positive family history.

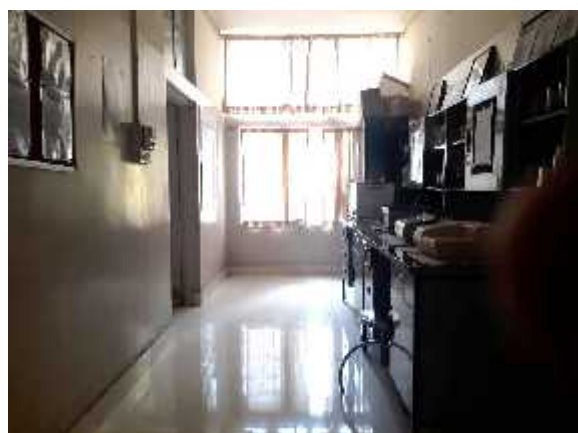
In the **Toxicology Division**, the students performed **Comet Assay** experiment, which is a tool to measure the amount of mutagenicity due to the exposure to different chemical mutagens.

In **Cytogenetics Division**, the students had the liberty to use the **Laminar air Flow chamber** for culturing the Lymphocytes. These cultures were further used for the purpose **Karyotyping** which is an essential tool in the detection of **Chromosomal abnormalities**. The students were delighted to See the **Fluorescent In situ Hybridization** images of human chromosomes.

The students had the opportunity to listen to a lecture on "DNA Microarrays" which was delivered by a Research Scientist at Asian Institute of Gastroenterology, Dr Ravikanth.

At the end of the training in each of the division, they were analysed through interaction with the doctors, scholars and the faculty regularly. The training program was very informative and knowledge gaining. The students found the internship program apt for their curriculum.





**List of students Enrolled for Summer Training Program
Institute of Genetics, Begumpet – 2019**

S. No	Roll No	Name	Class
1	107217459001	V Ashwini	MiGC II Year
2	17459002	G Sushma	MiGC II Year
3	17459006	Harathi mala	MiGC II Year
4	17459007	M Harini	MiGC II Year
5	17459012	M Manasa	MiGC II Year
6	17459025	Tanushree	MiGC II Year
7	17459026	Tejo Rajitha	MiGC II Year
8	17459027	Anjali	MiGC II Year
9	17459030	Angelina Kadam	MiGC II Year
10	17459031	Karunya rajaram	MiGC II Year
11	17459034	Nitish Nadan	MiGC II Year
12	17573006	C S Harshavardhani	BtGC II Year
13	17573011	A Prajwala	BtGC II Year
14	17573031	Qudrathullah Khan	BtGC II Year
15	17573040	Tejaswini Chand	BtGC II Year
16	17471035	Meghana Prakash	MBiC II Year
17	17471038	Pawan	MBiC II Year

Science club activity

Department of Genetics and Biotechnology conducted the Science club activity on 14th February, 2020. The event included the display of Wine prepared by the B Com students, who pursued “Wine making” as their Generic Elective offered by the Department of Genetics. They displayed wine made from different substrates like grapes, orange, banana, rose, apple and ginger to name a few. The students enthusiastically explained the steps involved in wine making. They also gave away some wine to taste to interested faculty & students.



Wine making by B.Com Students

S NO	Roll NO	Name	class
1	107217401004	BHANU PRASAD E R	B.Com Gen-B
2	107217401042	SANJAY ADLA	B.Com Gen-B
3	107217401097	NITIN ARORA	B.Com Gen-C
4	107217401169	PULI NAGA SATYA SANDEEP	B.Com Gen-D
5	107217402059	NAGA BHAVANA CHINTHAMREDDY	B.Com A1
6	107217402107	SIMRANJEET KOUR POTHIWAL	B.Com A2
7	107217402108	SUMITA BHOWMICK	B.Com A2

Food Adulteration

14th February, 2020

The activity also included the display of identification of the adulterated food products available in the market. The students of the skill enhancement course 'Medicinal Plants' demonstrated how to detect adulteration in common spices used in daily cooking such as turmeric powder and chilli powder. Adulterants in turmeric include lead and metanil yellow. The adulterants in chilli powder include red colour and brick powder. The students explained various methods to detect adulterants in commercial brands of turmeric and chilli powder available in the market. They also explained the hazards of adulterated food products.



Food Adulteration

Dr.Kalpana

S.No	Roll No	Name	Class
1	107217573017	SnigdhaSree P	BtGC Sem 6
2	107217573009	Gayatri Sadre	BtGC Sem 6
3	107217573040	Tejasweni Chand	BtGC Sem 6
4	107217471029	V Jayalaxmi	MBiC Sem 6
5	107217471030	Jayashree Mandal	MBiC Sem 6

“Stem Cell Technology and applications”

The Department of Genetics & Biotechnology organized a guest lecture for UG students of about 110 on 27-08-2019 at 11.00 am in the Room. 208, MBA block (1st Floor), Bhavan's Vivekananda College. The lecture was delivered by Dr. G. Ravi Kumar, Professor, Department of biochemistry, School of Life Sciences, University of Hyderabad.

Dr G. Ravi Kumar is a Professor at University of Hyderabad (India) and holds a Ph.D in Molecular biology and biotechnology from New Delhi. He has an extensive research and teaching experience from Harvard Medical School (USA) and NH (USA), Moffitt Cancer and Research center (USA) and RWTH Aachen (Germany).

His is an expertise in Gene regulation including cancer biology and stem cell therapy. He is working in the area of thrombocytopenia, a low platelet disorder which is common among neonates admitted in NICU. His research is focused on understanding the developmental differences in miRNA mediated post transcriptional regulation between neonates and adults.

Dr.Ravi Gutti spoke about discovering novel targets and developing specific therapy in MicroRNA therapeutics. He clearly described that out of 88 miRNA involved in stem cell development and differentiation, 10miRNA were upregulated in neonates Vs adults .After carrying out a series of experiments, he concluded that Let-7b is the only miRNA down regulated (10 fold) in neonatal compared to adult MK's and it inhibits wnt signaling pathway in MK's thereby reducing mitochondrial biogenesis and during this process Megakaryocyte specific vesicles could be identified .He concluded that expression of miRNA was found in Megakaryocytes which are involved in cell cycle regulation.





Trip to ACE Agro Technology and Raaga Foundation on 10.01.2020

The Department of Genetics and Biotechnology organized a field trip for the third year B.Sc BtGC students on 10th of January, 2020, to **ACE Agro Technology, Kompally and Raaga Foundation, Dindigul.**

A batch of 30 students were accompanied by two faculty members of the Department, i.e., Dr. Naga Manju and Mrs. D. Metilda Rosalin.

The field trip to **Ace Agro Technology** started on a good note, where we visited commercial production of Banana and date plantlets, through Tissue Culture.

The Director of the farm, **Mr. Biju** and his coworkers accompanied the students and staff to the lab in groups. They explained the production process in detail by allowing the students to view the procedure happening inside the plant tissue culture room where inoculation of the explants and subculturing of the callus took place. The students also visited the lab where inoculated tissue cultured bottles were incubated under regular intervals of photoperiod.

Mr. Biju took special interest in explaining and allowing the students to visit the working area where medium preparation and autoclaving took place that made his commercial production outstanding.

The entire institute maintained a very clean atmosphere to avoid contamination. The students were astonished at the discipline and aseptic conditions maintained. Finally they bid farewell to the institute wholeheartedly thanking them for the opportunity given for the visit.

Next, they visited **Raaga Foundation** which is a zoo where many species of birds and animals (reptiles, cattle, poultry, etc) were raised with personal care which paved the way to learn about animal behavior and their general instincts. This was maintained by **Mr. Nanda Kishore**, our alumni, who showed great passion in raising the animals as his pets in an environment friendly way. The students thoroughly enjoyed observing the animals and birds that educated them about their specificities, genetic diversity and evolution. Everyone appreciated Mr. Nandakishore for his tireless efforts in taking care of these species portraying the necessity of human - animal interaction. During the venture, he addressed the students letting them know the struggle he overcame to travel this far. He also counselled them to take studies seriously and work hard.

Finally the students went home thanking the department and the college for the above opportunity, and requested more such field trips in future.

ACE Agro Technology



Raaga Foundation



S.No	Roll.No	Name of the candidate
1	107217573001	AMULYA BEJGAM
2	107217573002	ANJANI BITAVARAM
3	107217573006	HARSHAVARDHINI C.S
4	107217573009	N.GAYATHRI SADE
5	107217573011	A.PRAJWALA
6	107217573012	PRASOONA .P
7	107217573013	K.R.SRAVANI
8	107217573015	SAI RAJA .K
9	107217573016	SHERWIN RAJ .R
10	107217573017	SNIGDHA SREE.P
11	107217573019	SREELEKHA R.D
12	107217573020	SRUTHI
13	107217573022	AISHWARYA KUMARI
14	107217573024	M.AMBIKA
15	107217573025	BHAVNA GAT
16	107217573027	CLEMENT FRANCIS
17	107217573041	YOGITA SHUKLA

S.No	Roll.No	Name of the candidate
18	107217573028	HEMANTH SAI
19	107217573030	MOHAMMAD ABDUL S
20	107217573031	MD QUDRATHULA K.Q
21	1072175730232	MONIKA SEPTA
22	107217573033	G.POOJA
23	107217573034	PRERNA BACHWANI
24	107217573036	SANDHYA KUMARI
25	107217573037	SHWETHA YADAV
26	107217573038	SMRITY SHARMA
27	107217573039	MEGHANA BAKKI
28	1072175730044	SHEKINAH.C
29	1072175730045	SNEHA DOMINIC X
30	107217573002	VAISHNAVI GORTHI

Guest lecture

Department of Physics & Electronics had organized a guest lecture on “Artificial Intelligence and Robotics” by Mr T V Prakash Rao Rtd Scientist – G, DRDO and Director ECS Cluster, Bangalore, on 24-07-2019.

A total of 100 students from BSc MECs had attended in this program. Students had a very good interaction with the speaker.



Guest lecture

Department of Physics & Electronics had organized a guest lecture on “Magnetolectric Multiferroics for ultra- low power consumption device applications” on 31-07-2019.

A total of 120 students from BSc MPCs II and III yrs have attended in this program. Students had a very good interaction with the speaker.



Visit to ARCI on 20/12/2019

A group of 35 students of B.Sc. Physics and Electronics accompanied by two faculty members Mrs. M. Prasanna and Mrs. V.R. Manjula visited various labs of ARCI, Hyderabad on 20/12/2019. They were taken around to various labs such as CMCT, CNM and CLPM by a group of scientists where they explained to them the current research in fields such as Nano materials, use of different Lasers used for specific purposes such as welding and drilling and materials characterization. Students got the opportunity to see the working of scientific Instruments such as X-Ray diffractometers, TEM, SEM Lasers etc. They were shown the Super Capacitors, Li ion batteries, Anti bacterial garments and high strength ceramics applications made in various Centers of ARCI.



Industrial visit to Physitech on 14/12/2019

50 Students of B.Sc. Electronics accompanied by Mrs. M.Prasanna and Mr. T.V.L.N.H Prasad have gone for an Industrial visit to Physitech, Kapra, Hyderabad on 14/12/2019. The students were given demonstrations of the working of Stabilizers and Power Supplies. Power Supply assembling and various modules of Power Supply manufacturing were also demonstrated.



FIELD TRIP to UNIVERSITY of HYDERABAD on 31/01/2020

Institutional visit: 52 students of B.Sc. MPCs and MECs accompanied by faculty members Mrs GS Mini, Mrs Santi Rohit Rao and Mrs T Sai Santoshi, got the opportunity to visit School of Maths, Indira Gandhi National Library and Integrated PG Course lab and various labs of School of Physics, HCU on 31-01-2020.

The faculty of School of Mathematics, Student Union members and Placement cell student coordinators addressed the students, after which they were taken to Indira Gandhi National Library where the computer section head and his team explained about the computerization and facilities of the library. Followed by lunch break, the students visited the School of Physics, where they enquired about the working of X-Ray Diffractometer and Spectrophotometer. They also visited

Integrated PG Course lab where they were briefed up with the details of HCU entrance examination and the Research facilities available.





National Science Day celebrations-2020

Theme for National Science Day -2020 was “*Indian Women in Science*”.
Prof. Seshu Bai, Dean, School of Physics, UoH was the Chief Guest of this programme.

As a part of National Science Day celebrations, Department of Physics & Electronics along with Department of Mathematics & Statistics conducted

- Elocution competition on “*Contribution of Indian Women Scientist to global Science and Technology*”. Mrs Madhuri Mathur, Lecturer, Department of Languages (English) was Judge for this competition.
- Poster Presentation competition was conducted on the topic “*Indian Women in Science*” Dr Aparna Dode was the judge for this competition.
- Science Quiz, in which students from BVC and various other colleges had participated.
- Students of BVC exhibited live models of their project work.

The participants list for the Elocution competition is

1	Aryaman Gupta	BSc MPCs I	BVC
2	Sai Mahathi	BSc MPCs I	BVC
3	Rithika	BSc MECs I	BVC
4	Surya Ganesh	BSc MECs I	BVC
5	Tushar Shah	BSc MECs III	BVC

The participants list for the Poster presentation is

1	Rachana Chiranjeevi S Suri Deekshitha	BSc MPCs III	BVC
2	Mohan Chaitanya Reddy G. Vikas Reddy Sara Sangam	BSc MPCs III	Govt. City College

3	Navya Reddy P.Saritha Sneha Sharma	BSc MSCs II	BVC
4	Manasa Jesha Sara Jose Krishna Kumari	BSc MECs III	St Francis

The list of projects demonstrated is given in the table below.

1	Heart Beat Monitoring System Using 8051 Microcontroller	G.Bharadwaj, Rohit Raj	B.Sc.(MECs) III Year
2	Temperature monitoring system using 8051 Microcontroller	Afsheen Tabassum, G.Bharadwaj, Deeksha Chatterjee	B.Sc.(MECs) III Year
3	Obstacle Avoiding Car	Suryakanth Bal , Dinesh Reddy	B.Sc.(MECs) III Year
4	Transmission of Data Using Light	P. Shantanu Varma Vicky Das	B.Sc.(MECs) I Year
5	Android Phone controlled robot using 8051 microcontrollers and Bluetooth module	N Lakshmi Prasanna V Harshitha	B.Sc.(MECs) III Year
6	8051-microcontroller-based-frequency-counter	K Rohan K Naga Sai Krishna	B.Sc.(MECs) III Year
7	Voice controlled Home Automation	CVS AnilKumar K Karthik	BSc MECS II Year
8	IoT Based Temperature and Humidity monitoring system	Y Prasoon P Tejaswi	BSc MECS II Year
9	Audio Amplifier using IC LM386	G Sai Kiran D.Adithya Sai K JayaLaxmi	BSc MECS II Year



Sakshi News Channel Visit

Date: 22nd July 2019

Venue: Banjara Hills

The students of BA, 40 in number had visited the Sakshi news channel located in Banjara Hills on 22nd July 2019. The students got exposed to the entire broadcasting process in the news channel. The entire structure of the news channel is divided into three major sections namely Input, Output and the social media section. The students were divided into three groups and each group were taken to all the departments of the channel separately. Students had also eye witnessed the live broadcasting session in the studio. Mr. Srinath, the output editor of the news channel had guided the entire team. Students got an enriching experience in visiting the channel.





Human Resource – The Sleeping Giant in India

Department of Economics, Faculty of BA had organized a guest lecture by Mr. Raghunandan Vadla, author of the book 'The Great Indian Treasure', on *Human Resource - The Sleeping Giant in India* on 7th August 2019. The speaker referred to Dr A.P.J. Abdul Kalam, and said Development is not about economic development, GDP, but it is about human values development. He also mentioned that conventional way of searching jobs should end as there is a mismatch between the demand and supply of jobs. The speaker told that the country is not just land but its 'people' are the real treasure. Talents, Capabilities, Passion, Strength are the core factors to make the world a better place. Students showed lot of enthusiasm in answering the questions during the interactive session. There were 108 students who attended the guest lecture.



Visit to Shadnagar - Gram Sabha

07/09/19

The soch club of Faculty of BA organised a trip to an interior village in shadnagar, Rangareddy district on 7th september 2019. The BA students with a number of 135, accompanied by their lecturers visited peerlaguda village in shadnagar and witnessed the 'Gram sabha' meeting of the villagers.

Mr. Mohd. Mobeen the sarpanch of the village, addressed the villagers and enquired about their problems and came up with remedies to rectify them. As a part of it, the students also conducted an outreach programme where the children of the local school were taught how to work the camera and were awarded on their performance. Also, a small skit about the importance of 'small savings' "was also performed by the students for the villagers. Overall, the trip was a grand success helped the students to uncover a new dimension of the society.







Guest Lecture on
'Challenges in Journalism'

19 September 2019

The Department of Mass Communication had conducted a guest lecture on 'Challenges in Journalism' on 19th September 2019. Mr. D. Nagarjuna, a senior adviser to the Government Institute of Printing and Technology and a visiting faculty in few colleges in Hyderabad is the resource person. He worked in key roles in the industry of Printing and Publishing. His expertise in Editing and Writing for media is incommensurable. He has also worked as a senior copywriter in the Parliament of India.

He talked about the journey of news travelling from its source to the readers and also gave a detailed account of daily challenges of journalists. He explained that there are three main stages to the development of a news story. First is the job of reporters, second are the editors, third is the printing process.

About 45 students attended the lecture and got an understanding that a journalist's job is very hectic and requires them to be available round the clock. They have to be very attentive to the details and also have to get their work done before the deadline. He said "the main challenges of a journalist include: getting rejected, the pressure of deadlines, prioritize their schedules, adjustments to make, last minute changes, social media and fake news." The session was concluded with a question and answer session.



Industrial Visit to Mother Dairy 2020

An Industrial visit was organized by the Faculty of Arts to Narmul Mother Dairy Plant for the final year students on 11th of January 2020, accompanied by Mr. Shiva Thrishul and Ms. Seema Ghosh. The main objective of this visit was to witness the processing of the Mother Dairy Products in the unit and gain insights through the process. Mother Dairy product range includes milk, curd, butter, ice-creams, badam milk, ghee, doodh peda and others.

The Nalgonda- Ranga Reddy Milk Producers Mutually Aided Coop.Union Ltd. (NARMUL) was registered on 25.02.1986. The Union is having 20 Milk Units in Nalgonda , Yadadri-Bhongir,Suryapet districts and 4 in Ranga Reddy and Vikarabad district and one feed mixing plant is situated at Bhongir so as to supply cattle feed to the farmers of the Five districts.

All the 45 students were explained about the hygiene and quality that is maintained throughout the production. They witnessed the process of making doodh peda, packaging of milk and the test laboratory which keeps a check on the products from time to time. Students also learnt about the distribution economical activities relating to the production.



PANEL DISCUSSION ON BUDGET 2020-21

On 1st February, 2020 the Union Finance Minister Nirmala Sitaraman presented the Union Budget of India for the financial year 2020-21. A budget is an estimation of revenue and expenses over specified future period of time and is usually compiled and reevaluated on a periodic basis. In a country with deep cultural, religious and economic diversity such as India, it is extremely important for the government to allocate resources wisely. Therefore, a well-planned budget is of utmost importance for any government to ensure economic stability and growth. To encourage the youth to gain more insight about the budget, the Department of Economics, Faculty of Arts organized a panel discussion on 'BUDGET 2020-21'. The discussion was held on 7th of February 2020 for 77 students of the Bachelor of Arts. Prof. M. Usha, Chairperson Andhra Mahila Sabha, Mr. Ganesh Narwade , trainer CA& CS and Mr. Rahul Rojanala, practicing CA were the panelists for the day. The various aspects of the proposed budget were analysed along with the key issues like fiscal deficit, skill development and those concerned with the unorganized sector. This initiative by the Department of Economics helped the students more socially aware about the financial affairs relating to the economy of the nation.



Report on Guest Lecture

- ✚ The Department of Commerce organised a guest lecture on “Cost Accounting Standards” for M.Com II year 30 students on 16.07.2019.
- ✚ The speaker of the lecture was “KVN.Lavanya” – Bachelor in Technology in Electronics and Communications from JNTU and a Cost & Management Accountant and has been an All India 7th rank holder (also first among girls) in CMA Inter. She is the First Lady Secretary, Vice Chairman and Chairman of Hyderabad Chapter of Cost Accountant
- ✚ She focused on the Cost standards and its importance in costing and enlightened us on the job of a Cost Accountant.
- ✚ The session was very interactive, informative and a good learning experience. Students participated in the discussions raised by the guest speaker.



Report on Guest Lecture

Title: Introduction to Law and importance of Data Privacy

Date: 4/7/2019

Time: 10 AM to 11.15 AM

Venue: Room No. 71

Session taken by: H.J.T.Kaushik

No. of students attended: 180

Classes: BCom 3A1, Bcom 3A2, Bcom 3C Session: 1

Mr. H.J.T Kaushik has done his BA LLB and has been a law intern in many companies. He has served as a legal advisory too. Currently, he is working as a Legal Consultant at PWC Pvt Ltd. The session was mainly about Data Privacy and ways to protect one's data while dealing with social media platforms and search engines.

He started by speaking about Law and difference between Indian law and International law. He spoke about the difference between EU and SAARC and other associations as an example how the countries follow similar laws. He told us about how the social media platforms and search engines like google chrome and other MNCs track our data and will know all our personal information such as our Name and surname, house address, IP address, email Id etc. He gave us insight about how such accesses (access to gallery, access to contacts, access to microphone, etc) are dangerous to us if those companies leak our data or sell our data to other companies, etc.

He told us that it is important to read the privacy policies of the applications we install in our mobile phones. He gave us information about what to do in case, if our private pictures leaked in certain websites and action to be taken under certain circumstances. The session was informative and resourceful.





INDUSTRIAL VISIT 2019-20

DATE: 14/12/2019

INDUSTRY VISTED: POCHAMPALLY HANDLOOM PARK LIMITED

PLACE: POCHAMPALLY, BHONGIR, YADADRI DISTRICT

Department of commerce has initiated an industrial trip to Pochampally Handloom Park Limited for all B.Com Ist year students on 14/12/2019. The trip started at 8 o'clock in the morning with 8 Buses 415 students along with 9 members of staff. The entire group reached Pochampally Handloom Limited at 10:30 am. The first team comprising of B.Com IA1 and IA2 visited the process in handloom section, which includes threading, designing, dying, weaving and final output. The students interacted with handloom workers and learned the difficulty involved at each stage of handloom. They also visited showroom in which handloom textile products like purses, bags, sarees, dress materials for men and women, bed sheets, which were designed with a brand of Pochampally design. They were so attractive, impressive and reasonable. Lunch followed by the visit to showroom. The remaining teams of B.Com IB, IC, IH1, IH2 and HBA visited the process post lunch and students had wonderful experience by interacting with the different classes of handloom workers. The visit was successful and the entire group reached the college at 7.30 pm. The trip from college to Pochampally Handloom Park Limited was with a distance of 65 kms.





SEBI VISIT (2019-20)

The Department of Commerce has been organizing a one-day visit to SEBI, since 2015 to give an opportunity to the students to gain an insight about the functioning of SEBI as the “Regulatory Authority” in the capital markets. As a part of the programme, all students of B.Com II year (Reg, Comp & Hons) and M Com (I Sem) visited SEBI Regional office located in Hyderabad, in batches of 45 each, scheduled once a week.

The visit for the academic year 2019-20 was conducted during 22nd December 2019 to 06th February 2020, once a week from 10 am to 3 pm, with a batch of 45 students in each visit. The students were addressed by SEBI officials. During the visits, students got an awareness about the functioning of SEBI as a regulator of capital markets and facts on how different companies have to follow guidelines by SEBI and fines imposed and collected by SEBI for non-compliance of its guidelines. Students were also given details about the importance of savings and awareness about informed decision making before approaching capital markets. Thereafter, a session on online trading was organized for the students by the resource person from NSE office. This was very helpful for students to get a practical exposure about online trading. A total of 474 students were benefited out of this one-day programme.





Bhavan's Vivekananda College

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Sainikpuri, Secunderabad-500 094

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Autonomous College - Affiliated to Osmania University

Report for the year 2019-20

Guest Lecture on Applications of statistics in various domains and Advanced Experimental Designs

1. Date of the event: **11/01/2020**
2. Place of the event: **Room No. 71 BVC**
3. Name(s) of the Resource person(s):
Dasari Ravi Kumar, Statistical Specialist, Novartis, Hyderabad

Speaker:

A wonderful seminar was given by Dr. Ravi Kumar Dasari on Data Science and Pharma Industry who works in Novartis Hyderabad. Sir has given brief introduction about Statistics and application of statistics in various domains. He also explained about Advanced Experimental Designs. Students had a very interactive session with Mr. Ravi Kumar. He has given a clear lecture on Pharma Industry with a case study, which was very helpful for the 100 students who attended.



Report on Guest Lecture

The Department of Commerce organized a guest lecture for B.com 1st years on 19/01/2019. It was organized in two sessions by **Mr. Sharath Chandra Reddy** who is retail manager. He enlightened the students on the topic managerial skills important for efficient management. There were 370 students present who felt the talk was interesting and inspiring. They felt that such lectures are necessary to guide them in setting their goals and plan their life.



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Report for the year 2019-20

Report on visit to HCU

Date:31/01/2020

Day: Friday

From: Bhavan's Vivekananda College

Started : 8:00 am

Faculty: 3- teachers Mrs GS Mini, Mrs Santi Rohit Rao MrsT. Santoshi

Students: 50 members

We reached University of Hyderabad central approximately at 9:45 am. The purpose of visiting University of Hyderabad is because of future education in maths, physics and statistics and research on that subjects. Firstly we went to school of mathematics and statistics. The sirs are pleasantly invited us and given an overview of introduction about University of Hyderabad, how the university functions there, theme and research and also the pride. Professor Padmavati mam had shown an micro presentation of maths and statistics department and courses available etc..., there is [M.sc](#) (maths, applied maths, statistics) and p.H.D(maths, applied maths, statistics). There is big data analysis started in 2014 and machine learning using program R.

The university of Hyderabad works / functions as semester based, they are 4 semesters and at 3-4 semester the students get to decide for jobs / research stream.

Nextly the sir explained how the entrance tests goes and the pattern includes followed by the researcher Professor Suman Kumar sir explained the pure and applied maths and given an brief of which researches are working on what.

Professor Suman Kumar, Professor Radha and Professor Padmavati mam were worked under fluid dynamics and separately Professor Suman Kumar sir working in biological data base and probability and Professor Madhu sudhan sir working on statistical research.

After that we interacted to placement coordinator and followed by a break. They are 2 coordinators, they explain how student union works, about placement, hostels etc.....,

Next we went to Mahatma Gandhi library it was quiet some nearer to main gate of University, the Librarian explained how and what about the functionality of library, I observed that it is mostly E- library, they so many books, they recorded every issues and returns there is a binding room, Xerox room, printing and scanning for blind people room, all the old documents, books are scanned and creating as e- books, the Librarian also said about how they safe the projects journals he also mentioned about anti plagiarism. We have seen a mistaken book without permission. We get a beep sound at the security board (because of magnetic strip). We have lunch which is provided by the university.

After that almost at 3:00pm we have went to school of physics. The professor explained how to explain how to understand physics later they were taken us to practical labs as 2 batches, they for we went to rapid prototyping lab it is 3d- printing lab, one of the students also a researcher showed how it works, he explained in detail about that how we print them in 3d (CAD files to G- Codes and also a CNC) there are 3- types of apparatus edititive and subsrative, the showed the programming and models he presenting researching for rocket

science . Later we went to X-ray diffraction lab with Jyothi mam .she explained the phenomena and how it works with UV dispse . They usually deal with ceramics. Following we went to another place Integrated course , there we seen all the experimental apparatus and that sir especially explained about the measurements and it's resolution .

It almost 5:30pm we ended our trip . I am very glad and thankful for our teacher and thank you for the professor that they patiently explaining about there research and course .



Education Field Trip

1. Name of the Event: Visit to High Court of Telangana
2. Date of the Event: 31-01-2020
3. Students: 53
4. Practical Knowledge: Working of High Court of Telangana

The Bachelor of Arts students visited the High Court of Telangana State on 31st January, 2020 with the special order of the Hon'ble Chief Justice of High Court Telangana and students witnessed the legal proceedings in delivering justice, they visited different Courts in the High Court of Telangana. They understood the procedure to access to justice. Further they were enlightened the legal fraternity in getting justice and career avenues in the Judiciary.



Hon'ble High Court of Telangana issued permission letter

V. RAMESH
REGISTRAR (MANAGEMENT)



HYDERABAD
PIN: 500066

(Off) 23446165
(Fax) 23446156

ROC.No. 24/2020/J.SPL.(BLDGS), DATED: 23.01.2020

To
The Principal,
Bhavana's Vivekananda College,
Science, Humanities & Commerce,
Sainikpuri,
Ranga Reddy District.

Sir,

Sub:- Permission to visit the High Court for 20 students of Bhavan's Vivekananda College, of Science, Humanities & Commerce Sainikpuri, R.R. District, undergoing BA Course (Political Science, Mass Comm and Economics) on **31st January, 2020** - Accorded - Regarding.


Ref:- Your letter dated 24.01.2020.

With reference to your letter cited, I am directed to state that permission is accorded to 20 students of Bhavan's Vivekananda College, of Science, Humanities & Commerce Sainikpuri, R.R. District, on **31st January, 2020**, to visit the High Court and witness Judicial Proceedings to get the practical exposure, without disturbance to the court proceedings. Further, you are requested to furnish the list of students visiting High Court and contact the Section Officer, J. Spl. (Bldgs) Section (Cell No.9440802174) and contact him for further information. The visit of the students shall be under the supervision of their faculty member and under intimation to the Registry.

Yours faithfully,

REGISTRAR (MANAGEMENT)

List of Students visited

 **Bhavan**
(Founded in 1938 by Kulapati Dr. K.M. Munshi)
BHAVAN'S VIVEKANANDA COLLEGE
of Science, Humanities & Commerce
Estd : 1993 AFFILIATED TO OSMANIA UNIVERSITY
AUTONOMOUS COLLEGE
ACCREDITED WITH "A" GRADE BY NAAC
SAINIKPURI, SECUNDERABAD - 500 094. Ph : 27111611, 27115878

Date : 29 Jan 2020

BVC/Visit/2019

To
The Hon'ble Chief Justice,
High Court of Telangana,
Hyderabad.

Esteemed Sir,


Sub: List of Students for Court Visit on 31-01-2020 - Reg

We express our sincere thanks and gratitude for your permission for visiting Hon'ble Court on 31 Jan 2020. The list of BA III Year Students who will be visiting the Hon'ble Court is as follows :

SL.No.	Roll No.	Name	Mobile No.
1.	107217391001	BRAMHANANDA REDDY KANUPARTHI	7893666752
2.	107217391002	D MOUNIKA	6302997852
3.	107217391003	JOYCEE S	8177682091
4.	107217391008	SHRUTI PETWAL	6300460396
5.	107217391011	RAJPUROHIT ANKIT SINGH	8712879631
6.	107217391018	JASMINE BISHT	7098971741
7.	107217391019	JYOTHSNA	8966736499
8.	107217391021	KOBIN KUMAR P	7680955822
9.	107217391025	PRIYANKA	7032926450
10.	107217391027	RAHUL KUMAR	9182453018
11.	107217391031	P SANIYA ANWAR	9032011211
12.	107217391032	SHAIK KHALIA MOINUDDIN	9441028598
13.	107217391034	SHANAZ FATIMA	9533162812
14.	107217391036	SHERAZ BEGUM	8374206915
15.	107217391037	SNEHA KUMARI	9578013283
16.	107217391040	Surekha Kumari	9603523390
17.	107217391043	ANJ BABU MANDA	8919913148
18.	107217391055	SANJANA N MENON	8897899155
19.	107217391056	SRIDEVI JUTURI	7093479368
20.	107217391058	KANAKA DURGA Y	8106036782

Mr. Bibhudhendu Das, Faculty, Mobile No.9603456436 is deputed to co-ordinate with your office.

Thanking You,

Yours Faithfully,

Prof. Y. Ashok
PRINCIPAL
(Dr. Y. ASHOK)
PRINCIPAL
Bhavan's Vivekananda College of Science
Humanities & Commerce
Sainikpuri, R.R. (Dist.)

Hands on Activities Relating to Fundamental Duties

24-12-2019

Fundamental Rights and Fundamental Duties are part of syllabus Paper –II Indian Constitution, we conducts hands on activities relating to their syllabus. The activity included 54 students of BA II year. Article 21 provides Right to Life, Article 48A provides responsibilities of the state in protection of Environment and Article 51A (g) provides that “it shall be the duty of every citizen of India to protect and improve the natural environment including forests , lakes , rivers and wildlife and to have compassion for living creature.”

Department of Political following the syllabus Political Science endeavor to create awareness among the student community about significance of the Environment and our rights our duties. Accordingly, we requested students for plantation of trees and for protection of trees in lieu of their constitutional fundamental duties is to be discharged.

Such hands on learning activities helping students to grasp what they are taught in the classroom and practical situations. It has significant impact in their attitude to discharge their fundamental duties under the Constitution of India. It enhances their skill to understand the concept of Constitutional Morality.



