

DCT's
Dhempe College of Arts and Science
Miramar-Panaji- Goa

Report

VALUE ADDITION/SKILL DEVELOPMENT COURSES CELL

2015-2016 to 2019-2020

An initiative to enhance:

Soft skills

Language and communication skills

Life skills

ICT/computing skills

The establishment of the Value Addition/ Skill Development Courses Cell forms part of the larger endeavour of the institution which focuses on skill enhancement of its students. The cell conducts various 30 plus- hour courses to impart added knowledge of a subject besides the regular academic syllabus which can be useful to the student in the future. The attempt is also to encourage students to complete courses which are outside the purview of their subject so as to develop all-round personality development as well as employability.

Objectives:

- To develop the innate abilities of students in skills pertaining to technical, soft and life-skills
- To instil entrepreneurial skills among students
- To enhance the understanding of academic syllabi that the students have opted for
- To expose students to new skills and newer areas for study

Expected Outcomes:

It is expected that students opting for Skill Development Courses would be:

- Better positioned for employability.
- Prepared to become entrepreneurs thereby reducing the pressure of unemployment.
- More likely to be well-rounded individuals with a good blend of academic, soft and life-skills.

2015-16

In all 17 Skill Development Courses were conducted during this academic year for the benefit of the students of our college.

Sr. No.	Course Name	Department	No. of beneficiaries	Skill focused upon under 5.1.3
1	Marathi Patrakarita	Marathi	5	Language and communication skills
2	Devanagari Typing (Mangal Font)	Hindi	14	Language and communication skills
3	Peer Counselling for Adolescents	Psychology	15	Life skills
4	Ancient Indian Numismatics	History	15	
5	Introduction to Financial Economics	Economics	16	Life skills
6	Competitive Exams Orientation cum Guidance	Political Science	14	
7	PHP My SQL	Computer Science	14	ICT/computing skills
8	Photoshop	Computer Science	14	Language and communication skills and ICT
9	Logic building and Programming	Computer Science	07	ICT/computing skills
10	C + +	Computer Science	07	ICT/computing skills
11	Android development	Computer Science	11	ICT/computing skills
12	Preparatory course for MCA entrance exam	Computer Science	11	ICT/computing skills
13	Determination of Physio-	Chemistry	20	

	Chemical & Microbiological Parameters in Drinking Water			
14	Summer Course in Analytical tools	Chemistry	20	
15	PG Certificate course in Industrial and Analytical Techniques	Chemistry	07	
16	Collection, Isolation and Identification of Microfungi	Botany	07	
17	Advanced immunology	Bio-technology	44	

Non-Conventional Course on ‘Marathi Patrakarita

The Department of Indian Languages had organised a Non-Conventional Course on ‘Marathi Patrakarita’. There were 8 Students who had registered & successfully completed the course. It was a 30-session course.

The students were also taken for a study trip to the ‘Navprabha’ office in order to acquaint the students of the scenario of the world of Journalism. The said Course was Co-ordinated by Mr. Jayprabhu Kamble, an Assistant Professor in Marathi.

Well-known Journalists such as Mr. Paresh Prabhu were invited as the Resource Persons for the same.

Report of Non-conventional course in Devanagari typing in Unicode (Mangal Font) by the Department of Indian Languages

Short term Non-Conventional course on Devanagari Typing in Mangal Font is a course of ten sessions of one hour each, which was conducted in the month of February and March. Mrs. Sampada Savase was the coordinator of this course. In all 14 students successfully completed the course. The Course started with the introduction of installing Devanagari inscript in the computers. The course includes the teaching of Vowels and consonants, grammar, spellings, words, sentences, which the students learnt to type. The Library reading room was of a great help for this course. Those students who did not own their lap tops, completed their course with the help of desk tops in the reading room.

Through this course, students will be able to type in Devanagari script flawlessly so that they can type their assignments and projects . They can even take typing projects as a side business. Students showed their genuine interest in the course and also tried to enhance their soft skills.

Department of Psychology (Non-Conventional course)

Peer Counselling for Adolescents

The department of Psychology conducted a 20 hour non-conventional course titled, 'Peer Counselling for Adolescents', from 14th December, 2015 to 28th January, 2016. The course coordinator was Mr. Aresh Naik (Asst. Prof. – Psychology). The faculty for the course were Dr. Ravindra Agrawal (consulting psychiatrist – Manipal Hospital), Mrs. Mcischia Cholera (practising psychologist) and Mr. Aresh Naik.

The objectives of the course were to empower adolescents with the basics of counselling so that they can recognize and mediate early in mental health issues, to tackle stigma in mental health by encouraging open dialogue, to dispel myths about mental health conditions, and to encourage individuals to seek professional help for mental health issues.

The course looked to equip the participants with basic counselling skills such as active listening, asking open-ended questions and summarizing. The participants were also provided inputs on effective suicide prevention and common psychiatric illnesses. The course was designed to be a mix of theory and practice sessions in which the participants worked on imbibing the counselling skills that were discussed. A total of 14 students from various streams attended the course.

DEPARTMENT OF HISTORY
REPORT OF NON-CONVENTIONAL COURSE

Name of the Course : Introduction to Ancient Indian Numismatics

Conducted by : Ms Vrishali Prabhugaunkar

The course was conducted from 28th July to 2nd August 2015 for T.Y.B.A.(History) students. The resource person for the same was Ms. Nalini Naik , Curator ,
Indian Customs and Central Excise Museum , Panaji.

The objective of the course was to enhance student's knowledge of ancient coins and understand the contribution of numismatics to ancient Indian history.

The content of the course included introduction and history of numismatics in India, Study of punch marked , Kushana , Satavahana ,Indo-Greeks and Gupta coins , Contribution of numismatics to Indian history and observation of coins.

The course fee charged was Rs.500/-.

The number of students that attended the course was 15 (Fifteen).

Non Conventional Course Report
On
Introduction to Financial Economics

The Department of Economics successfully completed the Non Conventional Course titled Introduction to Financial Economics. The course was open for all the students who wanted to know more about financial markets and how the financial markets operate. The Department drafted a syllabus which covered most of the important topics that the students needed to know of. The course covered important topics like: importance of investment, types of investments, money market, capital market, SEBI, valuation of shares and debentures, online trading, derivatives and portfolio management. The total numbers of students enrolled for the course were 16, most of them being TYBA Economics students. The faculty for the course included both in house and external faculty. The external faculty invited for the course was Ms. Gail Zacharia. The total numbers of sessions conducted for the course were 14. The feedback received from the students regarding the course was very good. Students were pleased and happy to gain added knowledge of a subject that is of immense importance today and the same knowledge can be used by them for their future reference as far as studies or job is concerned.

Non-Conventional Course

Report of Competitive Exam Orientation cum Guidance 2015-16

The Department of Political Science completed Non-Conventional Course titled as "Competitive Exam Orientation Guidance Programme" for the academic year 2015-16.

- **Duration of the Course:** Long Term 20 sessions of one and half an hour each.

Details about the above mentioned course

- The main objective of this course was to introduce to the students the career opportunities of higher civil services in India. The focus of this course was to guide and orient students to prepare for the All India Level Competitive Examinations with special emphasis to the UPSC Civil Service Examination. The course also enhanced General Awareness and Competitive skills among students.

Methodology

- The methodology adopted for delivering Non-Conventional Course was Lecture cum Interactive Sessions. Besides this, the Convener of the course shows numerous Documentaries on Interviews of Toppers in Civil Service and their Preparation Strategies.
- The Convener also delivered PowerPoint presentation on UPSC Syllabus and objective of joining Civil Services.
- The Convener also conducted special lectures, Interactive Sessions focusing on inculcating Analytical and Critical reasoning in the aspiring students as a part of their Civil Service Preparation.
- The Convener gave special session on the Art of analyzing the important news in the newspapers for the Civil Service Preparation.
- The Convener also took the candidates on the Fields Trips to Goa International Centre for Lecture-cum-Interactive Sessions on Current Issue by eminent personalities like Ambassador Abhyankar (Retd. IFS Officer) & Shri Mukul Rohatgi, Attorney General for India.

- The syllabus and scheme of Examination and other relevant study material was provided to the students.

Student's Assessment

3.4

Department of Computer Science & IT

Report of Non Conventional courses 2015-16

1. Name: PHP My SQL

Class: FYBSc Computer Science

Number of Students: 14

Fees charged: Rs 1500 per student

Duration: 40 hours

Aim: To learn website designing and coding skills.

Conducted from: 23rd November 2015-23th December 2015

Instructor: Ms Shilpa Naik

The course PHP MySQL was conducted for FYBSc Computer Science students for the academic year 2015-16. The course of 40 hour duration was conducted during the beginning of the second term from 23rd Nov to 23rd Dec 2015.

The course teaches students the techniques of designing Web pages using HTML, Javascript and dynamic content pages using PHP MYSQL.

The student feedback score of the Instructor was 3.26

2. Name: Photoshop

Class: FYBSc Computer Science

Number of Students: 14

Fees charged: Rs 1500 per student

Duration: 40 hours

Aim: To learn image processing & editing skills.

Conducted from: 1st December 2016 to 12th March 2016

Instructor: Ms Aliya Saldanha

The course Photoshop was conducted on students demand instead of the three courses Pagemaker, Coreldraw and Hardware maintenance. The course was conducted for FYBSc Computer Science students for the academic year 2015-16. The course of 40 hour duration was conducted during January to March 2016.

The course teaches students the techniques of image processing and editing photos.

The student feedback score of the Instructor was 2.92

3. Name: Logic Building & Programming

Class: SYBSc Computer Science

Number of Students: 07

Fees charged: Rs 1000 per student

Duration: 40 hours

Aim: To learn & practice programming with effective reasoning & logic building.

Conducted from: 3rd January -12th March 2016

Instructor: Ms Dipti Nene

The course on Logic Building & Programming was conducted for SYBSc Computer Science students for the academic year 2015-16. The course of 40 hour duration was conducted during the beginning of the second term from 1st Dec 2015 to 12th march 2016.

The course teaches students the techniques Problem solving and logic building necessary for programming a system.

The student feedback score of the Instructor was 2.59

4. Name: C++

Class: SYBSc Computer Science

Number of Students: 07

Fees charged: Rs 1000 per student

Duration: 40 hours

Aim: To learn Object oriented programming using C++.

Conducted from: June 2015 and will complete in April 2016

Instructor: Ms Shilpa Naik

The course on C++ was conducted for SYBSc Computer Science students for the academic year 2015-16. The course of 40 hour duration was conducted during the beginning of the first term in June 2015 and will be completed in April 2016.

The course teaches students the techniques of Object oriented programming to model systems where object and data security is important.

The student feedback score of the Instructor was 3.13

5. **Name: Android development**

Class: TYBSc Computer Science

Number of Students: 11

Fees charged: Rs 1000 per student

Duration: 40 hours

Aim: To learn to design & develop Android apps.

Conducted from: June 2015 to August 2015

Instructor: Mr Sacheet Parshikar

The course on Android development was conducted for TYBSc Computer Science students for the academic year 2015-16. The course of 40 hour duration was conducted during the beginning of the first term from June to August 2015.

The course teaches students the techniques to design and develop applications for Android phones. The course also helped students in designing and developing their Final year project.

The student feedback score of the Instructor was 2.78

6. **Name: Preparatory course for MCA Entrance exam**

Class: TYBSc Computer Science

Number of Students: 11

Fees charged: Rs 1000 per student

Duration: 40 hours

Aim: To learn to solve aptitude and computer application problems for MCA entrance exam

Conducted from: December 2015 to MArch 2016

Instructor: Ms Dipti Nene

The course on Android development was conducted for TYBSc Computer Science students for the academic year 2015-16. The course of 40 hour duration was conducted during the beginning of the first term from December to March 2016

The course teaches students the techniques to solve mathematical aptitude and computer application related problems that are useful for entrance examinations for MCA and MSc.

The student feedback score of the Instructor was 2.78

Department Of Chemistry

Report of the long term non-conventional course in "Determination of physicochemical and microbiological parameters in drinking waters"

The department of chemistry will be conducting a long term integrated (faculty of chemistry and zoology) value added non-conventional course entitled "Determination of physicochemical and microbiological parameters in drinking waters" for FY and SY BSC students in April 2016.

Duration of the course is of 33 hours which comprises of 4 sessions of lectures of one hour each and 29 hours of practical sessions. The intake capacity for the course is 20 students with a fee of Rs 1000/- per student.

The course syllabus includes introduction to microbiological and chemical parameters of drinking water, in addition there are practical sessions of determination of microbiological as well as physical and chemical parameters of drinking waters.

Course objective is to equip students with practical knowledge of determination of water quality so as to qualify whether water is hygienically safe and fit for consumption.

Report of one week Summer Course on 'Analytical Tools' conducted in collaboration with N.I.O.

Coordinator- Dr.Vrinda P.S.Borker

One week summer course is conducted in N.I.O. for S.Y.B.Sc. students for in the month of April.

The objective of the course is to have detail knowledge about principles and working of instruments used in various chemical analysis. This helps the students during the project work of T.Y.B.Sc.

The topics included XRD, XRFS, SEM, Magnetic Susceptibility, AAS, Coulometer, HPLC, LCMS, FTIR and GC. The scientists from N.I.O. explain the theory of instruments and demonstrate the working of instruments.

The maximum intake is 40 students.

There is no fee for the course.

Date :16th April 2016

**Report
Post Graduate Certificate Course in Industrial & Analytical Techniques
2015-2016**

This academic year enrolment for the course was 7. Syllabus of the course is as follows
Pharmaceutical Analysis 24 Lectures, Impurities an Limit Test 2 Lectures,
Instrumentation 22 Lectures, Data Handling & Analysis 8 Lectures,
Microbiology 16 Lectures, English ability counselling 2 Lectures,
Use of software packages in Chemistry 4 Lectures

Practicals

Data Handling on computers 6 Practical, Pharmaceuticals 6 Practical,
Microbiology 6 Practical, Chemistry 6 Practical.

The students were sent for on job training for 2 months to industries such as Sanofi India Ltd., Unichem Laboratory Ltd., and Blue Cross Laboratory Pvt. Ltd.

Report of the Course

"COLLECTION , ISOLATION AND IDENTIFICATION OF MICROFUNGI"

- A short term five day certificate course was organized by the Department of Botany from 28th December 2015 to 09th January 2016. (28th, 29th, 30th December and 02nd and 09th January 2016)
- Course was conducted under the guidance of Dr. Maria A. D'Souza, Assistant Professor in Botany.
- Total seven students enrolled for the course.
- An amount of Rs. 1000/- per person was charged as the fee.
- The topics covered were on general techniques on collection and isolation of coprophilous fungi, saprophytic fungi and endophytic fungi.
- Hands-on-training on the various techniques of isolation was given to the participants and they also identified the isolated fungi.
- The Student's Assessment of Teacher forms were duly filled by the participants and the assessed grade was 3.73.
- Certificates were distributed to the participants on completion of the course.

Report on completion of the Enrichment program in 'Advanced Immunology'

It gives me an immense pleasure to share the report on the successful completion of the enrichment program in 'Advanced Immunology'. This program was a joint endeavour of the Department of Biotechnology, Dhempe College of Arts & Science and INSERM, Paris. The enrichment program in 'Advanced immunology' commenced on 6th February, 2018 with an inaugural function. The inaugural function was followed by a talk on 'Introduction to advanced immunology' by Dr. Srinivas Kaveri (Director of research, INSERM). The talk gave a bird's eye view of the various things the students could expect to learn during this course. Students asked various questions during and also at the end of the talk which exhibited the interest and enthusiasm of the students towards this course.

Total 46 students from the F.Y., S.Y. and T.Y. B.Sc. Biotechnology enrolled for this course. The course was conducted for a period of three months from 6th February to 5th May 2018. During this period pre-recorded lectures and power point presentations sent by Dr. Kaveri were played to the students by a teacher. It was altogether a new experience for the students. Since the audience for this course included students from all the three years of B.Sc. Biotechnology, they did not have the same level of background knowledge about the subject. Efforts were made to address their queries. In addition to the lectures from Dr. Kaveri, lectures on nine different topics of Immunology were delivered by Dr. Saroj Prasad Babar. These lectures dealt with the basics of immunology.

A small quiz was conducted at the end of the course. All the students performed well in the quiz. In order to know their opinion about the course and identify the areas that needed improvement, a feedback on different aspects of the course was taken from them. The overall response was 'good' (3 on a scale of 4). In future we would work on achieving the response as 'excellent'.

It was a great experience to co-ordinate a course in collaboration with INSERM, Paris. We look forward to conduct this course in the coming years as well.

Sanjay
Coordinator - Value Addition
Courses Cell.

2016-2017

In all 13 Non-Conventional Courses were conducted during this academic year for the benefit of the students of our college.

Sr. No.	Course Name	Department	No. of beneficiaries	Skill focused upon under 5.1.3
1	First Aid	Biotechnology	8	Life skills
2	Summer Course in Analytical tools	Chemistry	21	
3	Determination of Physicochemical and Microbiological Parameters in Drinking Water	Chemistry	21	
4	Research Methodology	Geology	12	
5	Food Science & Quality Control	Biotechnology	38	Life skills
6	PHP MySQL	Computer Science	18	ICT/computing skills
7	Blender	Computer Science	18	ICT/computing skills
8	Dreamweaver	Computer Science	11	ICT/computing skills
9	C + +	Computer Science	11	ICT/computing skills
10	Hardware maintenance	Computer Science	02	ICT/computing skills
11	Networking security	Computer Science	02	ICT/computing skills
12	Introduction to Indian Numismatics	History	13	
13	Collection, Isolation & Identification of Micro fungi	Botany	8	

REPORT ON NON-CONVENTIONAL COURSE ON FIRST AID

First Aid is the first assistance that has to be given to the injured person. Knowledge of what is to be done foremost as well as recognizing the seriousness of the casualty's condition can lead to speedy recovery of the casualty. With this purpose, the first aid course was structured for F.Y B.Sc. Biotechnology students. Eight students enrolled for the course. The first aid course commenced on 1st February 2017, with an introductory session on overview of the course was elucidated. Precautions and safety measures were taught with emphasis laid on *'Prevention is better than cure'*

The second session consisted of basics of first aid and emergency services provided in the state of Goa. DRSABC code along with checking pulse rate was taught to students. Following this session, the students were taught first aid for wounds - abrasion, laceration, incision, bites, bruise and gritty wounds. The consequences of untreated wounds were explained to the students along with first aid for ear, nose and mouth bleeding. In the next session, first aid for Burns and Scalds was taught. Different types of burns were explained with stress laid on differentiation between minor, mild and serious burns. Rules to assess the burnt area were also demonstrated.

'Shocks' was the topic for the fifth session of the course. The students were made aware of the causes, symptoms and first aid for physiological shocks. In this session, first aid for severe migraine was also covered. The following session comprised of first aid for unconsciousness. Causes for dizziness, vertigo and fainting were explained to students and practices which should not be carried out in case of emergency were also told to students.

The seventh session consisted of first aid for snake bites. The difference between poisonous and non-poisonous snakes was explained. Information on the common snakes of Goa was given and dos and don'ts in case of snake bite were told to students. First aid for poisoning other than snake bite was also covered in this session.

An orthopedic doctor from Goa Medical College, Bambolim Dr. Charan Phayade explained first aid for falls and sprains. He showed them the correct method of bandaging in case of fractures due to falls and sprain. Students had a beneficial interaction with him and he gladly answered all the questions asked to him by students. The first aid course concluded on 24th April 2017, with the preparation of a first aid kit. Importance was laid on a stress free and healthy lifestyle for prevention of commonly occurring diseases. Students were made to fill feedback forms for the course.



Course Coordinator
Ms. Preethi B. Poduval
Asst. Professor
Department of Biotechnology

Department of Chemistry

Report of one-week Summer Course on ‘Analytical Tools’ conducted in collaboration with N.I.O.

Coordinator-Dr. Vrinda P.S. Borker

One-week summer course was conducted in N.I.O. for S.Y. B.Sc. students in the month of April from 24th April to 27th April 2017.

The objective of the course is to have detailed knowledge about principles and working of instruments used in various chemical analysis. This helps the students during the project work of T.Y.B.Sc.

The topics include XRD, XRFS, SEM, Magnetic Susceptibility, AAS, Coulometer, HPLC, LCMS, FTIR and GC. The scientists from N.I.O. explain the theory of instruments and demonstrate the working of instruments.

The maximum intake is 40 students. This year 21 students enrolled for the course.

There is no fee for the course

Dr Vrinda Borker
Course Coordinator

Department of Chemistry

Report of the long term non-conventional course entitled “Determination of physicochemical and microbiological parameters in drinking waters” for the academic year 2016-17.

The department of chemistry conducted a long term integrated (faculty of Chemistry and Bio-technology) value added non-conventional course entitled “Determination of physicochemical and microbiological parameters in drinking waters” for SY BSC students.

Duration of the course is of 33 hours which comprises of 4 sessions of lectures of one hour each and 29 hours of practical sessions. The intake capacity for the course is 25 students with a fee of Rs 1000/- per student. This year 21 students were enrolled for the course .

The course syllabus includes introduction to microbiological and chemical parameters of drinking water, in addition there are practical sessions of determination of microbiological as well as physical and chemical parameters of drinking waters Course objective is to equip students with practical knowledge of determination of water quality so as to qualify whether water is hygienically safe and fit for consumption.



Mrs Varsha Virginkar
Course Coordinator

Report Non-Conventional Course (Department Of Geology)

NAME: RESEARCH METHODOLOGY

No of students enrolled: 12

The students of TYBSc and SYBSc had attended the research methodology course in Department of Geology. The objective of the course was to inculcate research in young minds. Further to add to it, various software's tools mainly statistics (Pearson's correlation; Principal Component Analysis (PCA), grapher and surfer was in covered in the course.

The students were made aware of research proposal writing and also the process of converting raw data into research publication.

The course also highlighted the importance of impact factor and formats of journals such as Elsevier and Springer.

It added research skills and development in the minds. Importance were also given to the oral presentations where all students presented the data which was processed during the course.

Resource Persons:

Dr. Ratnaprabha R. Siraswar

Dr. Manoj Imbrampurkar

Corordinator: Mr. Dinanath Parab

DEPARTMENT OF BIOTECHNOLOGY

Certificate Course in “Food Science & Quality Control”.

REPORT

Course Co-ordinator: Mrs. Mrunal R. Phadke (Department In-charge)

Faculty: Mrs. Mrunal R. Phadke

A certificate course in “**Food Science & Quality Control**” was organized by the Department of Biotechnology from 4th January to 6th May, 2017. The number of S.Y. and T.Y. students of Biotechnology registered were 38 and the fee charged was Rs. 1000/- per student. The total revenue generated was Rs. 38,000/-

The course included detailed information about the Methodologies in support of the quality management in the food industry such as sensory evaluation, adulteration tests, etc. The syllabus for the course was designed to understand the current Industry trends in terms of Quality Control.

The Practical sessions in the course covered the important tests performed routinely in Quality Control Department in Food Industries. Students were given training in Sensory evaluation of various food products, advertisement analysis, adulteration tests, food package evaluation, etc.

The lecture sessions included detailed study of various rules and regulations mandatory to food industries, various food additives such as GRAS as well as non GRAS, the system Hazard Analysis and Critical Control Points (HACCP), Nutraceuticals, Food laws, etc.

Mrs. Mrunal R. Phadke
Course Co-ordinator

Department of Computer Science & IT

Report of Non-Conventional courses

1. Name: **PHP My SQL**

Class: FYBSc Computer Science

Number of Students: 18

Fees charged: Rs 1500 per student

Duration: 40 hours

Aim: To learn website designing and coding skills.

Conducted from: 23rd November 2016 to 20th December 2016

Instructor: Ms Shilpa Naik

The course PHP MySQL was conducted for FYBSc Computer Science students for the academic year 2016-17. The course of 40 hour duration was conducted during the beginning of the second term from 23rd Nov to 20th Dec 2016.

The course teaches students the techniques of designing Web pages using HTML, Javascript and dynamic contact pages using PHP MYSQL.

2. Name: **Blender**

Class: FYBSc Computer Science

Number of Students: 18

Fees charged: Rs 1500 per student

Duration: 40 hours

Aim: To learn basics of 3d animations.

Conducted from: 4th January 2017 to 30th January 2017

Instructor: Mr Saurabh Naik

The course includes creation of basic 3d objects, drawing, scaling, camera movements, rendering animation. The course was conducted for FYBSc Computer Science students for the academic year 2016-17. The course of 40 hour duration was conducted during January 2017.

3. Name: **Dreamweaver**

Class: SYBSc Computer Science

Number of Students: 11
Fees charged: Rs 1000 per student
Duration: 40 hours
Aim: To learn to design websites.
Conducted from: 7th January - 2nd March 2017
Instructor: Mr Sचेet Parshikar

The course on Dreamweaver was conducted for SYBSc Computer Science students for the academic year 2016-17, the course of 40 hour duration was conducted during the beginning of the second term February to March 2017

The course teaches students the techniques of building and designing websites

4. Name: **C++**
Class: SYBSc Computer Science
Number of Students: 07
Fees charged: Rs 1000 per student
Duration: 40 hours
Aim: To learn Object oriented programming using C++.
Conducted from 5th July 2016 to 10 August 2016
Instructor: Ms Shilpa Naik

The course on C++ was conducted for SYBSc Computer Science students for the academic year 2016-17, The course of 40 hour duration was conducted during the beginning of the first term in July 2016.

The course teaches students the techniques of Object oriented programming to model systems where object and data security is important.

5. Name: **Hardware Maintenance**

Class: TYBSc Computer Science
Number of Students: 02
Fees charged: Rs 1000 per student
Duration: 20 hours
Aim: To learn to connect maintain basic PC problems.
Conducted from: March 2017
Instructor: Mr Saurabh Naik

The course on Hardware Maintenance as conducted for TYBSc Computer Science students for the academic year 201-16. The course of 20 hour duration was conducted during the end of the second term in March 2017

The course teaches students the techniques to setup a computer and solving basic hardware problems.

6.Name Network Security

Class: TYBSc Computer Science

Number of Students: 02

Fees charged: Rs 1000 per student

Duration: 20 hours

Aim: To learn network topologies setup, management and administration

Conducted in March 2017

Instructor: Mr Saurabh Naik

The course on Network Security was conducted for TYBSc Computer Science students for the academic year 2016-17, The course of 20 hour duration was conducted during the end of the first term in March 2017

The course teaches students basics of network administration.

Introduction to Ancient Indian Numismatics

REPORT

A Non-conventional / skill development certificate course “Introduction to Ancient Indian Numismatics” was conducted from 09/08/16 to 13 /08/16 for T Y B A (History) students. The resource person for the same was Ms. Nalini Naik, Curator of Indian Customs and Central Excise Museum, Panaji. The total number of students that attended the course were 14.

The objective of the course was to provide the students in-depth knowledge of Ancient Indian Numismatics which is not included in the syllabus of BA (History). A detailed study of numismatics or study of coins is significant / relevant to the student of history as it is an important source for the study of history.

The content of the course included introduction to numismatics, its history, study of coins belonging to ancient India (Kushanas, Satavahanas, Guptas and the Indo – Greeks). The course concluded with a study of contribution of numismatics to Indian history. Practicals were also conducted.

Ms Vrishali Prabhugaunkar
Coordinator

Certificate Course on 'Collection, Isolation and Identification of Fungi'

Fungal Isolation and Identification

The Department of Botany will organize a course basically on the isolation and identification of microfungi. The five day course is designed for beginners and those with not much experience in the identification of naturally occurring microfungi. The participants will be given to examine include a wide range of fungi i.e moulds etc. This certificate course will be conducted by Dr. Maria A. D'Souza, is designed to provide tools and skills for beginning, practicing, and prospective identification techniques.

About the workshop

Fungi are amazing, an important source of protein and food and medicinal source, critical for your health and the health of the planet. Nature's decomposers and regenerators they are all important for your permaculture systems your soils and in becoming more self-reliant and sustainable. They can remove pollutants in water and soils, share nutrients between trees and regenerate landscape. A world of their own this species provides us with many secrets as to how they can help us and even save the world. This **five-day workshop** is designed to introduce participants to a basic understanding of microfungi such as moulds that may occur in foods and in processing environments. The workshop will also provide you with the knowledge, skills and confidence in the fungal isolation/identification. **During this workshop we will explore different habitats of microfungi. The focus will be on simple isolation and identification techniques with many hands-on activities to support the in-class theory. This will be a fun packed informative hands-on practical exercise totally consuming your hearts, minds and hands with microfungi. You will get the ability, resources and confidence when you go home.**

Course Outline

The course will cover:

- General introduction to fungal structure, growth and classification
- Processing samples for fungal culture, Microscopic examination, evaluation of fungal growth media, methods for presumptive and full identification of fungal isolates, recording and interpretation of results.

This course is delivered over 05 days and is designed to provide participants with an introduction to laboratory investigation of microfungi and is also useful for those wishing to update their practical skills and knowledge. Information will be delivered in a combination of lectures and practical sessions. The three day course has been specially developed for aspiring young students and for lovers of fungi those who want to know more about these organisms. The goal of the certificate program is for the participants to be able to isolate and identify the microfungi from varied habitats. This process begins with a brief introduction to fungi and proceeds through naturally occurring fungi with special reference to a number of habitats. The most common fungal species will be emphasized throughout the lecture until they become familiar. The less common spores will be treated by introducing references from mycological literature.

The first step in this process is the recognition of the major groups within the fungus kingdom by their spores, basidiospores, ascospores and mitospores (molds). There will be detailed explanations of the isolation and identification of fungi followed by the laboratory exercise. Equipment in the lab includes professional microscopes with oil immersion, stereoscope, camera

attachment to the microscope, laminar airflow etc. At the conclusion of the course, the attendees should be able to isolate and identify, take an account, write a report.

Day 1:

- Lecture on Microscope basics, fungal classification, differences between each of the 5 groups i.e. Chytridiomycetes, Zygomycetes, Glomerulomycetes, Ascomycetes, Basidiomycetes, Deuteromycetes, their reproductive structures, different modes of fungal nutrition, fungal isolation, fungal ecology, basic fungus morphology and growth.
- Laboratory session on basics of microbiology i.e. autoclaving, preparation of media and sterilization.

Day 2:

- Lecture on Ascomycota and basidiomycota reproductive structures i.e. asocarp, basidiocarp, tunica and the different arrangements of asci and basidia.
- Laboratory exercise on technique in preparation of petriplates with media for fungal isolation.
- To isolate fungi from natural substrates, stain with lactophenol cotton blue and observation on microscope.
- Processing samples for endophytic fungi from fresh leaves.

Day 3:

- Lecture on coprophilous fungi and ascomycetous fungi eg. *Cladosporium*, *Aspergillus* and *Penicillium*.
- Preparation of slides and cultures of various coprophilous fungi and isolation of endophytic fungi.

Day 4:

- Lecture on brief introduction on Anamorphic fungi.
- Laboratory exercise on isolation and observation of the fungal petriplates and checked for contamination if any.
- Exercise on making and interpreting reports.

Day 5:

- Laboratory exercise on floras, manuals, identification keys for fungal identification.
- Decontamination of the cultures plates and slants prepared.

At the end of the three day exercise the students will learn techniques for fungal collection, isolation and identification.

Course Details

Dates and times – October 2016 (Exact dates will be informed later)

Day 1 10.00am - 13.00pm

Day 2 10.00am - 13.00pm

Day 3 10.00am - 13.00pm

Day 4 10.00am - 13.00pm

Day 5 10.00am - 13.00pm

Cost : Total - Rs. 1000/-/student

Convenor - *Usha*
Value Addition
Courses Cell

2017-2018

In all 20 Skill Development Courses were conducted during this academic year for the benefit of the students of our college.

Sr No	Course Name	No of beneficiaries	Department	Skill focused upon under 5.1.3
1	PHP & My SQL	18	Computer Science	ICT/computing skills
2	Blender (F.Y.B.Sc Computer Sc)	18	Computer Science	ICT/computing skills
3	C++	16	Computer Science	ICT/computing skills
4	Hadoop (S.Y.B.Sc Comp. Sc)	16	Computer Science	ICT/computing skills
5a	C program (Bio-technology students)	16	Computer Science	ICT/computing skills
5b	C program (PCM students)	10	Computer Science	ICT/computing skills
6	Dreamweaver	10	Computer Science	ICT/computing skills
7	Introduction to Archaeology	9	History	
8	Typing in Unicode-Mangal Font	22	Indian Languages	Language and communication skills
9	Marathi Patrakarita (journalism in Marathi)	12	Indian Languages	Language and communication skills
10	Written English	09	English	Language and communication skills
11	Determination of Physico-chemical and Microbiological parameters in drinking Water	15	Chemistry	
12	Certificate Course in Remote Sensing and GIS	13	Geology	

13	Microbiological Techniques	16	Botany	
14	Advanced Immunology	46	Biotechnology	
15	Summer Course in Analytical Tools	25	Chemistry	
16	Mathematical Typesetting LaTeX	08	Mathematics	ICT/computing skills
17	Practical Approach to Goods & Service Tax	06	Economics	Life skills
18	Mathematical Approach to Economics	06	Economics	
19	Cracking the TOEFL and IELTS Tests	08	English	Language and communication skills
20	Counselling skills	24	Psychology	Life skills

Department: **Computer Science**

I. Name of the Course: **PHP & MYSQL**

No. of students: **18**
Fees: **Rs.1500/-**
Resource Person: **Mr. Senon S. De Souza**
Co-ordinator: **Mr. Senon S. De Souza**
Duration: (Dates) From **01/08/2017 to 13/03/2018 (40 contact hours)**
Attendance Record: Maintained/Not Maintained **Maintained**
Certificates: Issued/Not issued **Not Issued**
Bills: Settled/Not settled **Not settled**

II. Name of the Course: **Blender**

No. of students: **18**
Fees: **Rs.1500/-**
Resource Person: **Mrs. Shilpa Naik**
Co-ordinator: **Mrs. Shilpa Naik**
Duration: (Dates) From **25/09/2017 to 20/02/2018 (40 contact hours)**
Attendance Record: Maintained/Not Maintained **Maintained**
Certificates: Issued/Not issued **Not Issued**
Bills: Settled/Not settled **Not settled**

III. Name of the Course: **C++**

No. of students: **17**
Fees: **Rs.1000/-**
Resource Person: **Mrs. Shilpa Naik**
Co-ordinator: **Mrs. Shilpa Naik**
Duration: (Dates) From **01/07/2017 to 29/08/2017 (40 contact hours)**
Attendance Record: Maintained/Not Maintained **Maintained**
Certificates: Issued/Not issued **Not Issued**
Bills: Settled/Not settled **Not settled** Name of the Course: **Hadoop**

IV. Name of the Course: **Hadoop**

No. of students: **17**
Fees: **Rs.1000/-**
Resource Person: **Ms Teja Kundaikar**
Co-ordinator: **Ms Teja Kundaikar**
Duration: (Dates) From **4/12/2017 to 28/02/2018 (40 contact hours)**
Attendance Record: Maintained/Not Maintained **Maintained**
Certificates: Issued/Not issued **Not Issued**
Bills: Settled/Not settled **Not settled**

V. Name of the Course: **C Programming**

No. of students: **16**
Fees: **Rs.1000/-**
Resource Person: **Ms Lavina De Silva**
Co-ordinator: **Mrs. Annie Rajan**
Duration: (Dates) From **20/7/2017 to 18/11/2017 (20 contact hours)**
Attendance Record: Maintained/Not Maintained **Maintained**
Certificates: Issued/Not issued **Issued**
Bills: Settled/Not settled **settled**

VI. Name of the Course: **C Programming**

No. of students: **10**
Fees: **Rs.1000/-**
Resource Person: **Ms Lavina De Silva**
Co-ordinator: **Mrs. Annie Rajan**
Duration: (Dates) From **12/8/2017 to 17/11/2017 (20 contact hours)**
Attendance Record: Maintained/Not Maintained **Maintained**
Certificates: Issued/Not issued **Issued**
Bills: Settled/Not settled **settled**

VII. Name: **Dreamweaver**

Class: TYBSc Computer Science

Number of Students: 10

Fees charged: Rs 1000 per student

Duration: 40 hours

Aim: To learn to design websites.

Conducted from: 18th December 2017 to 29th September 2018

Instructor: Ms Teja Kundaikar

INTRODUCTION TO ARCHAEOLOGY

REPORT

The course 'Introduction to Archaeology' was conducted for T.Y.B.A. and S.Y.B.A.(History) students from 18th July 2017 to 3rd August 2017. The resource person for the course was Ms. Sawani Shetye.

The objective of the course was to enhance the knowledge of the students about Archaeology-Subject and the Scope.

The content of the course included study of Archaeology, Numismatics, Epigraphy and Museology. The course fee was Rs. 500/-Total number of participating students was 09.

The convener of the course was Ms Vrishali Prabhugaunkar.

REPORT ON THE NON-CONVENTIONAL COURSE on 'Typing in Devanagari-Mangal Font'

The Department of Indian Languages had organised a Non-Conventional Course on 'Typing in Devanagari-Mangal Font'. There were 22 Students including 3 faculty members who had registered & successfully completed the course. It was a 30-session course. The said Course was Co-ordinated by Dr. Vaishali Naik, an Assistant Professor in Hindi. Ms. Anju Sakhardande, Dr. Vaishali Naik were invited as the Resource Persons for the same. The details of the Course were submitted by the course Co-ordinator Dr.Vaishali Naik to the college office

REPORT ON THE NON-CONVENTIONAL COURSE on 'Journalistic Skills in Marathi'

The Department of Indian Languages had organised a Non-Conventional Course on 'Marathi Patrakarita'. There were 12 Students who had registered & successfully completed the course. It was a 30-session course. The students were also taken for a study trip to the 'Navprabha' office in order to acquaint the students of the scenario of the world of Journalism. The said Course was Co-ordinated by Mr. JayprabhuKamble, an Assistant Professor in Marathi. The well known Journalists such as Mr. Rajendra Desai, PareshPrabhu, Dr. Ajay Vaidya, Mr. Kishore Naik Gaonkar, Mr. PushrajPopkar, Mr. PandurangGaonkar and so on were invited as the Resource Persons for the same. The details of the Course were submitted by the course Co-ordinator Mr. JayprabhuKamble to the college office.



Study Tour to the office of 'Dainik Herald'-Marathi daily with Editor Mr. Rajendra Desai

Department of English

Value-added Course: Written English

Course Coordinator and Instructor: Ms. Palia Pandit

No. of Contact Hours: 30

Course duration: 11th - 29th September 2017

Number of Students enrolled: 09

The value-added course on Written English was especially designed to suit the requirements of the students of BSc. It aimed at enhancement of the students' writing skills with respect to functional English.

Seven students from TY Biotech and two students from TY Chemistry opted for this course. This course was blended in nature, that is, it was partly online and partly offline. The online components in the form of text, audio and video contents were shared on Google Classroom, and offline instruction took place at the parent institution.

The students regularly submitted the exercises and successfully completed the course. Certificates were issued to them on 26th January 2018.

Palia Pandit
Course Coordinator

Department of Chemistry

Report of the long term non-conventional course entitled “Determination of physicochemical and microbiological parameters in drinking waters” for the academic year 2017-18.

The department of chemistry conducted a long term integrated (faculty of Chemistry and zoology) value added non-conventional course entitled “Determination of physicochemical and microbiological parameters in drinking waters” for SY BSC students.

Duration of the course is of 33 hours which comprises of 4 sessions of lectures of one hour each and 29 hours of practical sessions. The intake capacity for the course is 25 students with a fee of Rs 1000/- per student. This year 15 students were enrolled for the course.

The course syllabus includes introduction to microbiological and physico- chemical parameters of drinking water, in addition there are practical sessions of determination of microbiological as well as physical and chemical parameters of drinking waters. Course objective is to equip students with practical knowledge of determination of water quality to qualify whether water is hygienically safe and fit for consumption.

Mrs Varsha Virginkar
Course Coordinator

REPORT OF THE REMOTE SENSING AND GIS COURSE

2017-18

The Department of Geology, Dhempe College of Arts and Science, Miramar conducted a value-added certificate course in "Remote Sensing and GIS" of 12 days duration.

A total of 13 students registered and completed this course that was held from 20th November 2017 to 25th November 2017 and 7th May 2018 to 12th May 2018.

The resource persons for this course were Raghav Gadgil and Rhythm Warik, Faculty from the Department of Geology, Dhempe College of Arts and Science, and Kiran Kumar Eripogu, Shubham Gude and Sagar Wankhede, Research Fellows from Farvatibai Chowgule College of Arts and Science, Margao-Goa.

The attendance of this course and record of feedback from the students has been maintained in the department.

Report of the Value Added Course

Dr. Sayani Mukherjee conducted a short term ten (10) days certificate course on "Microbial Techniques" at the department of Botany from 02nd May 2018 to 05th May 2018 and 08th May 2018 to 12th May 2018 and 14th May 2018.

Total sixteen (16) students enrolled for the course.

An amount of Rs. 100.00 per person was charged as the fee.

The topics covered were on the general microbiological techniques

Hands on training in the various techniques

1. Media preparation, wrapping and sterilization techniques,
2. Isolation of bacteria from soil, air, tap water and marine water
3. Spread and pour plate techniques
4. Inoculation and incubation techniques
5. Antibiotic assay by agar cup method.

Certificate will be distributed to the participants who attended the course.

Report on completion of the Enrichment program in 'Advanced Immunology'

It gives me an immense pleasure to share the report on the successful completion of the enrichment program in 'Advanced Immunology'. This program was a joint endeavour of the Department of Biotechnology, Dhempe College of Arts & Science and INSERM, Paris. The enrichment program in 'Advanced immunology' commenced on 6th February, 2018 with an inaugural function. The inaugural function was followed by a talk on 'Introduction to

advanced immunology' by Dr. Srinivas Kaveri (Director of research, INSERM). The talk gave a bird's eye view of the various things the students could expect to learn during this course. Students asked various questions during and also at the end of the talk which exhibited the interest and enthusiasm of the students towards this course.

Total 46 students from the F.Y., S.Y. and T.Y. B.Sc. Biotechnology enrolled for this course. The course was conducted for a period of three months from 6th February to 5th May 2018. During this period pre-recorded lectures and power point presentations sent by Dr. Kaveri were played to the students by a teacher. It was altogether a new experience for the students. Since the audience for this course included students from all the three years of B.Sc. Biotechnology, they did not have the same level of background knowledge about the subject. Efforts were made to address their queries. In addition to the lectures from Dr. Kaveri, lectures on nine different topics of Immunology were delivered by Dr. Saroj Prasad Babar. These lectures dealt with the basics of immunology.

A small quiz was conducted at the end of the course. All the students performed well in the quiz. In order to know their opinion about the course and identify the areas that needed improvement, a feedback on different aspects of the course was taken from them. The overall response was 'good' (3 on a scale of 4). In future we would work on achieving the response as 'excellent'.

It was a great experience to co-ordinate a course in collaboration with INSERM, Paris. We look forward to conduct this course in the coming years as well.

Department of Chemistry

Report of the long term non-conventional course entitled "Analytical Tools for Chemical Analysis".

The department of chemistry organised a long term integrated (faculty of NIO) value added non-conventional course entitled "Analytical Tools for Chemical Analysis" for SY BSC students in the month of May.

The course was conducted at National Institute of Oceanography, Dona Paula Goa. There it was co-ordinated by Dr Brenda Mascarenhas Principal Scientist Geological Oceanography Department.

In the Introductory session the students were briefed about the various CSIR Institutes in different parts of the country. They were also briefed about the functioning at the various departments of NIO.

The students were given hands on training on the Instrumentation techniques like XRD, SEM, AAS, ICP- MS. They were briefed regarding the working of Instruments and also their applications in the scientific field.

During this one week tenure guest lectures were organized by expertise from the field of life sciences, Chemical, Physical and Geological and Environmental Sciences. The students were given exposure of the research carried out in different departments of NIO.

The student intake capacity was 25. The SYBSc students got registered for the course in the month of March , later they were divided into groups and the list was sent to National Institute of Oceanography.

Course Outcomes:

The students are well trained to operate the different Instruments like AAS, XRD, ICP, SEM. They also acquire the knowledge to carry out antimicrobial studies. This helps them to carry out Characterization studies for the TYBSc projects in the subjects of Chemistry, Physics, Geology, Zoology and Botany. The Course helps to increase the Research insight and analytical reasoning of the young and aspiring minds of the students.

Course Title: Latex-Mathematical Typesetting

Department: Mathematics

A 30 hour skill Development course in Latex-Mathematical Typesetting coordinated by Vitendra Matondkar was conducted by the dept. for students of TYBSc with alumna Akshita Singh as the resource person.

The students were introduced to the fundamentals of Latex installation, usage and benefits.

They also provided hands on training in the same. At the end of the course the students were able to successfully install LaTeX and its related components on a home/personal computer, use LaTeX and various templates required from the course to compose mathematical documents, presentations and reports.

Department of Economics

Value added courses

1) Practical Approach to Goods and Service Tax

Objectives: To make students learn practical aspects of Goods and Services Tax (GST) calculations and make them aware of the licensing and registration procedures. There were only 06 students enrolled. The total number of lectures assigned to this course were 30 hours.

2) Mathematical Approach to Economics

Objectives: i) To prepare students with quantitative methods required to answer entrance exam in Indian Economic service.

ii) To enable students to refer research journals and solve the quantitative problems by understand the applications of the articles.

There were 06 students enrolled. The total number of lectures assigned to this course were 30 hours.

DEPARTMENT OF ENGLISH
SKILL-DEVELOPMENT COURSE
CRACKING THE TOEFL AND IELTS TESTS

Introduction

Verbal Reasoning and Comprehension is an integral part of most competitive examinations conducted by prominent universities and academic bodies across disciplines all over the world. The Verbal section in these tests calls for a nuanced understanding of key concepts in Grammar, critical reading ability and skills of comprehension. This course was designed after a careful assessment of recurrent patterns in verbal tests such as TOEFL and IELTS. The course sought to equip participants with an inclusive set of skills which will help them enhance their performance (accuracy and speed) in the Verbal Section of these competitive exams. **08 students benefitted from the course.**

Course Objectives:

- 1) To familiarize learners with the pattern of TOEFL and IELTS.
- 2) To provide intensive training in fundamentals of English Grammar.
- 3) To acquaint learners with the rubrics and practice of Critical Reading.
- 4) To enhance the listening and speaking abilities of learners with references to the requirements of the tests.

Course Contents:

The course will focus on key concepts in grammar, critical reading, listening and speaking ability.

The course will be executed hands-on practice and Google Classroom.

Writing samples and practice tests will be modelled on questions asked in competitive exams.

Modules:

- I) Key Concepts in Grammar [10 hours]
 - (i) Punctuation Marks (With special emphasis on use of Colon and Semicolon)
 - (ii) Use of Articles
 - (iii) Tense/Time
 - (iv) Verb Conjugation
 - (v) Contractions
 - (vi) Eliminating Redundancy in Language Usage
 - (vii) Difference between That-Which
 - (viii) Phrases and Clauses
 - (ix) Identifying Parts of Speech
 - (x) Sentence structure

- II) Critical Reading Ability [10 hours]
- (i) Comprehending Passages and Summary Questions
 - (ii) Analogies and/or Reverse Analogies
 - (iii) Verbal Reasoning (Facts/Inferences/Judgements)
 - (iv) Vocabulary Based Reasoning (synonyms and antonyms)
 - (v) Syllogisms (based on verbal reasoning)

Teaching Methodology

- Hands-on practice on fundamental concepts.
- Solving Practice tests.

Coordinator (s)

- (1) Joanita Lobo, Assistant Professor, Department of English.
- (2) Akshata Bhatt, Assistant Professor, Department of English.
- (3) Clarinda Dias, In-charge, Department of English

Certificate Course in 'Basic Counselling Skills'

Dhempe College of Arts & Science in collaboration with Sangath organized a certificate course in 'Basic Counselling Skills' from 22nd to 27th May 2017 at Dhempe College.

Dr. Abhijit Nadkarni, a Hon Consultant Psychiatrist and Co-Director Addictions Research Group, Sangath and Ms. Urvita Bhatia, a clinical psychologist and counsellor from Sangath were resource persons. Dr. Mukta Karamadi, Vice Principal of Dhempe College was the course coordinator.

A total of 24 participants attended the course. Students, teachers, counsellors and social workers from all over Goa were benefitted from the course.

The valedictory function of the course was held on 27-5-2017. Shri. Sunil Prabhudessai, Administrator of Dempo Charities Trust was the chief guest and Dr. Vrinda Borker, Principal of Dhempe College presided over the function.

Convenor -
Vaha
Skill Development
Courses Cell

2018-2019

In all 18 Skill Development Courses were conducted during this academic year for the benefit of the students of our college.

Sr. No.	Course Name	Department	No. of beneficiaries	Skill focused upon under 5.1.3
1	Determination of Physico-Chemical and Microbiological Parameters in Drinking Water	Chemistry	33	
2	Remote Sensing & GIS	Geology	15	
3	Introduction to Archaeology	History	07	
4	Skill Development in Fungi: Basic Techniques in Mycology, Mushroom Cultivation and Tempeh Preparation	Botany	11	
5	Orchid & Anthurium Cultivation, Flower Arrangement, Creative Kitchen and Vertical Gardening	Botany	49	Life skills
6	Counselling for Alcohol Problems	Psychology	29	Life skills
7	Learning Difficulties: Assessment and Remediation	Psychology	48	Life skills
8	Statistical Course using 'R' Software	Mathematics	6	ICT/computing skills
9	Latex Mathematical Typesetting	Mathematics	6	ICT/computing skills
10	Mangal Font	Indian Languages	14	Language and communication skills
11	GNU Image Manipulation Program (FYB.Sc Comp)	Computer Science	15	ICT/computing skills

12	PHP MySQL (FYB.Sc Comp. Sc)	Computer Science	14	ICT/computing skills
13	C Progam (40 Hours)	Computer Science	7	ICT/computing skills
14	C++ (S.Y.B.Sc Comp. Sc)	Computer Science	13	ICT/computing skills
15	Multimedia (S.Y.B. Sc Comp. Sc)	Computer Science	13	ICT/computing skills
16	Winemaking and bakery	Biotechnology	30	Life skills
17	Summer course in Analytical Tools	Chemistry	33	
18	Value Added Sea Food Products	Zoology	9	Life skills

Department of Chemistry

Report of the long term non-conventional course entitled “Determination of physicochemical and microbiological parameters in drinking waters” for the academic year 2018-19.

The department of chemistry conducted a long term integrated (faculty of Chemistry and Biotechnology) value added non-conventional course entitled “Determination of physicochemical and microbiological parameters in drinking waters” for SY BSC students.

Duration of the course is of 33 hours which comprises of 4 sessions of lectures of one hour each and 29 hours of practical sessions. The intake capacity for the course is 25 students with a fee of Rs 1000/- per student. This year 33 students were enrolled for the course.

The course syllabus includes introduction to microbiological and physico-chemical parameters of drinking water, in addition there are practical sessions of determination of microbiological as well as physical and chemical parameters of drinking waters. Course objective is to equip students with practical knowledge of determination of water quality to qualify whether water is hygienically safe and fit for consumption.

The course commenced on 12th march in the Bio-Technology Laboratory for analysis of water samples for micobiological parameters and ended on 20th march 2019

The students then did practical sessions in Chemistry Laboratory for analysis of physical and chemical parameters of drinking waters on 4th May 2019.



Remote Sensing and GIS report 2018-19

The Department of Geology, Dhempe College of Arts and Science, Miramar conducted a value-added certificate course in “Remote Sensing and GIS” of 30-hour duration. The course was conducted in the year 2018-19 for which 15 students had enrolled and attended the course.

The course started on 6/2/2019 and ended on 30/03/2019. The lectures and practicals were conducted in the Department by Raghav Gadgil and Dr Sagar Mali (Assistant Professor in Geography, Vidya Prabodhini College, Porvorim).

The attendance record for the above said course has been maintained in the department. The bills of this course have been settled. The certificates have been issued to the participating students.



SKILL DEVELOPMENT COURSE
INTRODUCTION TO ARCHAEOLOGY
REPORT - 2018 -2019

The course 'Introduction to Archaeology' was conducted for T.Y.B.A. (History) students during the academic year 2018-2019 at the Goa State Museum. The resource persons for the course were the staff of the Museum and invited personalities.

The objective of the course was to enhance the knowledge of the students about Archaeology- its subject and the scope.

The content of the course included study of various aspect of Archaeology - Numismatics, Epigraphy, Conservation and Museology.

The course fee was Rs. 300/-.

Total number of participating students was 07.

The convenor of the course is Ms. Vrishali Prabhugaonkar.

Report of the Certificate course on 'Skill development in fungi: Basic techniques in mycology, mushroom cultivation and tempeh preparation'

Course Co-ordinator: Dr. Pratibha Prabhugaonkar

Certificate course on Skill development in fungi: Basic techniques in mycology, mushroom cultivation and tempeh preparation was conducted for 45 hours for 8 days at the Department of Botany, Dhempe College of Arts and Science from 10.05.19 to 17.05.19 and a collection trip on 17th March 2019.

Total 11 students participated in the course from F.Y. B.Sc., S.Y. B.Sc. and T.Y. B.Sc. An amount of Rs. 1000/- per student was charged.

Report:

Mycology or study of fungi is branch of science touching every sphere of life, from food, medicine, farming etc. Being to deal with micro-organisms the field requires understanding of basic skills in sterilization, media preparation, culturing of fungi and safety practices. Field of study also requires knowledge of different morphological features of fungi and use of microscopy to observe them. This course aimed to equip participants with this required knowledge so that participants can take up further work in the field. Further to demonstrate the utility of this course, techniques related to two fungal foods namely mushroom cultivation and tempeh cultivation were demonstrated to the participants.

The course participants started with a field visit to Cotigao wild life sanctuary on 17 March 2019. In field students were acquainted with diverse life forms of fungi existing around us in the form of litter degrading fungi, soil biota, parasites on plants, insects and animals, as

symbionts, Mycorrhiza helping plant growth as both ecto-mycorrhiza and Endo-mycorrhiza. Students also visited farm lands to understand role of fungi in our farmlands. Students also collected some mushroom and soil samples for observing them in laboratory during the field visit.



Course formally started in Botany Department of Dhempe College of Arts and Science on 10 May 2019.

On 10th May 2019 participants were welcomed for opting to the course and were given an introductory lecture and fungal world touching every sphere of our life. Modern application of fungi in food, medicine and agriculture and future prospects of fungi in providing needs of humanity.

After lecture students started hands on to acquire laboratory skills required for working with fungi. The first day was reserved for media preparation and sterilization skills. In this participants cleaned the glassware's required for the work, prepared medium 'malt extract agar' and sterilized it by autoclaving. Participants also prepared moist chambers for growing fungi and incubated samples collected during field visits and other samples which were planned to be observed during the course work.

On 11th May 2019 students began with introduction to laminar air flow and its principle. This was followed by demonstration of preparation of sterile Petri plates for fungal culturing in laminar air flow. Each participant participated in this activity by using laminar airflow to prepare their own set of petri-plates.

After a break on Sunday, participants started with introduction to mushroom cultivation. This was followed by demonstration of oyster mushroom cultivation using paddy straw as substrate wherein students understood intricacies like moisture content in sterilized paddy straw, spawn handling and requirement of aseptic conditions.

On 13/05/2019 students used media petri-plates prepared by them to sample fungi from different habitats. To expose them to diversity and sampling methods for different habitats techniques to isolate fungi growing as endophytes, from plant litter, aero-mycoflora and single spore isolation on malt extract media were demonstrated and were practiced by participants. This equipped participants skills to work with these micro-organisms.

On 15/05/2019 participants observed the fungi growing in Petri-plates they used for sampling. Prepared slide mounts and observed different morphological structures of fungi. They tried hands on using taxonomic manuals to identify fungi isolated and to understand cultural characteristics of different groups of fungi. They also learnt methods of preparation of pure cultures and long term storage.



On 16/05/2019 participants further practiced skills in preparation of slide mounts and observed more fungal characters useful in identification. Participants were taught how to calibrate a microscope using stage micro-meter and ocular micro-meter and how to measure size of materials in slide mount using ocular micro-meter.

On 17/05/2019 participants observed demonstration of tempeh production using soybean as substrate for growing the mould *Rhizopus*.

Students also learnt how to prepare mushroom spawn and tempeh starter culture using Petriplate grown purified fungal colony.

This was followed by lecture on microbial laboratory techniques by Dr. Purnima Ghadi. This included detailed briefing on types of sterilisation, laminar air flow and principles etc.

On last day participants joined hands to understand cleaning requirements of micro-fungi laboratory, decontamination and safety practices.

This was followed by feedback session wherein students presented on skills acquired by them and question and answer session.

Outcomes: Participants were trained in basic skills required to work in mycology such as sterilization, aseptic handling, culturing of fungi, fungal morphology and were also demonstrated techniques in using fungi as food.



Report of the Certificate course on *Orchid, Anthuriums* cultivation, flower arrangement, creative, kitchen and vertical gardening

Shilpa Bhonsle conducted a certificate course on *Orchid, Anthuriums* cultivation, flower arrangement, creative, kitchen and vertical gardening for 33 hours for 11 days at the Department of Botany, Dhempe college of Arts and Science from 19.01.19 to 13.04.19.

Total 49 students participated in the course from F.Y. BSc., S.Y. BSc. and TY BSc. An amount of Rs. 1000/- per student was charged. The topics which were covered were creative gardening, kitchen gardening, flower arrangement, *Anthuriums* planting, *Orchid* cultivation and vertical gardening.

On 19 January 2019, we started the course with an inaugural program, with the presences of the Vice principal - Mrs. Manjiri Barve and Couse coordinator -Mrs. Varsha Virginkar.



The topics covered were as follows

Sr. No.	Topics	Date	Timing	Lecture / practical
1	Creative gardening	19.01	1 hours	Lecture/ demonstration
			2 hr	Practical work in lab
2	Creative gardening	25.01	1 hr	Lecture/ demonstration
			2hr	Practical work in garden
3	Kitchen gardening	9.02.	1 hr	Lecture
			2hr	Practical work in garden
4	Kitchen gardening	16.02	1 hr	Lecture
			2hr	Practical work in garden
5	Flower arrangement	09.03	3 hr	Lecture
				Practical work in Lab
6	Flower arrangement	16.03	1 hr	Practical work in Lab
		16.03	2 hr	Practical work in garden
7	<i>Anthuriums</i> cultivation	23.03	1 hr	Lecture

			2 hr	Practical work in garden
8	Planting of <i>Anthuriums</i>	30.03	3 hr	Practical work in garden
9	<i>Orchid</i> cultivation	06.04	1 hr	Lecture
	Planting of <i>Orchid</i>		2 hr	Practical work in garden
10	vertical gardening	11.04	1 hr	Lecture
			2 hr	Practical work in green house
11	vertical gardening	13.04	3 hr	Practical work in green house

Resource Persons for the certificate course were:1) Mrs. Manjiri Barve2) Dr. (Mrs.) Purnima Ghadi3) Pratibha A. Prabhugaonkar and 4) Ms. Pranali Naik.Hands on training were given to the students.

Orchids and *Anthurium* beautiful cut flowers cultivated mostly in tropical humid climate and hence it has good scope for cultivation in Goa on commercial level, training was given to the students for cultivation of this plants.



Flower arrangement were done, which included the organization of design and colour towards creating an ambience using flowers, foliage and other floral accessories.

Vertical gardening is garden that grows upward (vertically) using a trellis or other support system, rather than on the ground (horizontally).The vertical garden was created in green house and maintained.

Department of Psychology

2018-19

Certificate Course in 'Counselling for Alcohol Problems'

Objectives:

- To develop an understanding about the basics of de-addiction counselling, including its theory and practice.
- To develop an understanding about the role and responsibilities of a counsellor in de-addiction settings.
- To develop the key skills for an effective counselling relationship.
- To develop an understanding about different styles of counselling.

Report: The Department of Psychology in collaboration with Sangath, Porvorim – Goa, organized a certificate course in 'Counselling for Alcohol Problems' from 27th to 31st December 2018 at Dhempe College. The total duration of the course was 24 hours. Dr. Mukta Karamadi, Head of Department of Psychology coordinated the course.

Dr. Abhijit Nadkarni, a Hon Consultant Psychiatrist and Co-Director Addictions Research Group, Sangath and Ms. Urvita Bhatia, a clinical psychologist and counsellor from Sangath and Prof. Richard Velleman from University of Bath, United Kingdom, were the resource persons.

The course included the following topics:

- Module 1: Looking forward to being a counsellor
- Module 2: Introduction to Mental Health and Mental Illness
- Module 3: Core skills in De-Addiction Counselling
- Module 4: The Counselling Process-From initiation to termination
- Module 5: Special Considerations in the Counselling Process
- Module 6: Approaches to counselling
- Module 7: Learning Review

Presentations, Group discussions, Demonstrations, Role-plays, Group exercises and Case studies were used to deliver the course contents.

A total of 29 participants which comprised of teachers, students, counsellors and social workers from all over Goa, benefitted from the course.

Outcome:

The participants developed an understanding of the fundamentals of the counselling process and building of the counselling relationship and acquired counselling skills and knowledge of intervention strategies to carryout counselling in a safe environment. The participants also developed the ability to practice skills, and the handling of clients competently and professionally.



Sd/-

(Dr. Mukta Karamadi)
Head, Department of Psychology

Department of Psychology

2018-19

Certificate Course in “Learning Difficulties: Assessment and Remediation”

The Department of Psychology, Dhempe College of Arts and Science conducted a certificate course in “Learning Difficulties: Assessment and Remediation” in the Audio Visual Room, Dhempe College of Arts & Science, on 10th, 17th, 21st and 24th March 2019 from 10.00 am to 5.00 pm. The resource person for the course was Mrs. Rupali Mohbe, RCI certified Psychologist and Counsellor.

The objectives of the course were to facilitate the identification and remediation for learning difficulties and to develop skills for handling various kinds of learning difficulties.

The course contents included the following:

- Basics of LD: Types of LD, LD screening, Different therapist, their roles and interventions in remediation
- Different areas of Visual perception, Auditory perception, and Language
- Baseline assessment and interpretation of test findings along with case study practice
- Developing IEP in a defined format along with case study practice
- Basic Exercises of sensory integration and the intricacies of counseling

The resource person used presentations, group discussions, demonstrations, role-plays, group exercises, and case studies to deliver the contents.

A total of 48 participants comprising of occupational therapists, behavioural paediatrician, speech therapists, students, counsellors, doctors, etc. benefited from the course.

Sd/-

(Dr. Mukta Karamadi)



Report of the value-added course “Statistical techniques using R software” by the mathematics department in the year 2018-19

Course Title: “Statistical techniques using R software”

Department: Mathematics

A value-added course in statistical techniques using R software for 60 hours was successfully conducted for the T.Y.B. Sc math students by resource person Miss Sujata Desai, Assistant Professor dept. of mathematics. The course was also coordinated by Miss Sujata Desai. It was attended by 06 T.Y.B.sc students. The students were introduced the basic of how R software works, how to install R software and all the statistical techniques using R studio, they were also given the benefit of the state level workshop in R, sponsored by Department of Science and technology, conducted by the department.

This course will be helpful for students for analyzing data and use of the various techniques in statistics. Practice Sessions were conducted for the Participants.

Course Title: Latex-Mathematical Typesetting

Department: Mathematics

A 30 hour skill Development course in Latex-Mathematical Typesetting coordinated by Vitendra Mhatondkar was conducted by the dept for students of TYBSc with alumna Akshita Singh as the resource person.

The students were introduced to the fundamentals of Latex installation, usage and benefits.

They also provided hands on training in the same. At the end of the course the students were able to successfully install LaTeX and its related components on a home/personal computer, use LaTeX and various templates required from the course to compose mathematical documents, presentations and reports.

Report and Details of VALUE ADDITION COURSE

Title of the Course: 'TYPING IN UNICODE-MANGAL FONT'

Department: DEPARTMENT OF INDIAN LANGUAGES

Effective from Academic Year: 2018-2019

Duration of the Course : 30 Sessions

Fees: Rs. 300/-

Resource Person & Co-ordinator- Dr. Vaishali Naik (Assistant Professor in Hindi)

Duration: 4th July, 2019 to 4th December 2019

Tentative Timings: Wednesday & Saturdays (11:00-12:00 -1 Session per day)

Total 08 students including Hindi and Konkani department attendant and successfully completed the Course and learn to type in Devnagari Mangal Font.

Report of Value-added courses held in the academic year 2018-2019

Department: **Computer Science**

I. Name of the Course: **Gimp**

Gimp is commonly referred to as the open source or "free" version of Adobe's Photoshop software. It is used to manipulate a pre-developed image or to create graphics that are suitable for various needs. Student will be able use open source software to manipulate an image.

No. of students: **15**

Fees: **Rs.1500/-**

Resource Person: **Ms Teja Kundaikar**

Co-ordinator: **Ms Teja Kundaikar**

Duration: (Dates) From **31/07/2018 to 17/12/2018 (40 contact hours)**

Attendance Record: Maintained/Not Maintained **Maintained**

Certificates: Issued/Not issued **Not Issued**

Proposal: Submitted/Not submitted **Submitted**

Student forms: Submitted/Not submitted **Submitted**

Bills: Settled/Not settled **settled**

II. Name of the Course: **PHP & MYSQL**

PHP or Hypertext Preprocessor is a widely used, open source scripting language. A prerequisite for developing interactive web applications to solve various real world problem and store, retrieve and manipulate related data.

No. of students: **15**
Fees: **Rs.1500/-**
Resource Person: **Mr. Senon S. De Souza**
Co-ordinator: **Mr. Senon S. De Souza**
Duration: (Dates) From **10/12/2018 to 05/02/2019 (40 contact hours)**
Attendance Record: Maintained/Not Maintained **Maintained**
Certificates: Issued/Not issued **Not Issued**
Proposal: Submitted/Not submitted **Submitted**
Student forms: Submitted/Not submitted **submitted**
Bills: Settled/Not settled **settled**

III. Name of the Course: **C Programming**
C is a general purpose, imperative computer programming language, supporting structured programming, lexical variable scope and recursion. This course introduces various programming constructs that are needed to lay a basic and strong foundation of programming fundamental into students.

No. of students: **07**
Fees: **Rs.1000/-**
Resource Person: **Mr. Senon S. De Souza**
Co-ordinator: **Mr. Senon S. De Souza**
Duration: (Dates) From **11/8/2018 to 25/2/2019 (40 contact hours)**
Attendance Record: Maintained/Not Maintained **Maintained**
Certificates: Issued/Not issued **Issued**
Proposal: Submitted/Not submitted **Submitted**
Student forms: Submitted/Not submitted **submitted**
Bills: Settled/Not settled **settled**

IV. Name of the Course: **C++**
This course introduces the student to object-oriented programming through a study of the concepts of program specification and design and coding.

No. of students: **13**
Fees: **Rs.1000/-**
Resource Person: **Ms. Diksha Prabhu Khorjuvenkar**
Co-ordinator: **Ms. Diksha Prabhu Khorjuvenkar**
Duration: (Dates) From **021/02/2019 to 14/03/2019 (40 contact hours)**
Attendance Record: Maintained/Not Maintained **Maintained**
Certificates: Issued/Not issued **Not Issued**
Proposal: Submitted/Not submitted **Submitted**
Student forms: Submitted/Not submitted **submitted**
Bills: Settled/Not settled **settled**

V. Name of the Course: **Multimedia**

OpenShot is a free video editing app for Windows, Mac or Linux, which is a major advantage to entice any budding, but cash-strapped editor. The interface is pretty basic but offers everything you need from the standpoint of a video editing app. You can switch between the Simple and Advanced views depending on how much information you need to see on screen at any one time. On top of this, you can customise the interface to suit your needs.

Audacity is an incredible free, open source audio editor that's just as good as many premium paid-for applications. You can use it to make your own recordings, remove noise, cut and combine clips, apply special effects and much more, and achieve truly professional results.

The aim of this course is to provide an understanding of concepts in video and audio editing.

The student will be able to remember various features provided by Openshot and Audacity, choose necessary effects and create a movie/mix track.

No. of students: **13**

Fees: **Rs.1000/-**

Resource Person: **Mr. Saurabh Naik**

Co-ordinator: **Mr. Saurabh Naik**

Duration: (Dates) From **4/08/2018 to 23/03/2019 (40 contact hours)**

Attendance Record: Maintained/Not Maintained **Maintained**

Certificates: Issued/Not issued **Not Issued**

Proposal: Submitted/Not submitted **Submitted**

Student forms: Submitted/Not submitted **submitted**

Bills: Settled/Not settled **settled**

(Ms Teja Kundaikar)
In-Charge

Computer Science Dept.

WINEMAKING AND BAKERY REPORT (2018-19)

The Goa State Council for Science and technology along with Department of science and technology funded the Entrepreneurship development program in Winemaking and Bakery at DCT's Dhempe College of Arts and Science for the Academic year 2018- 2019. It was a 3 months certificate course which was conducted from 8th July 2018 to 8th October 2018. It was a hands-on training programme done to inculcate an interest in self- employment among the students of Final year Bsc.

A total of 30 students of T.Y.B.Sc. from the departments of Chemistry and Biotechnology participated in the course.

The students were briefed about the history of winemaking, types of wine and the process of fermentation for making the wine. The students were taught to make different types of still wines such as grape, pineapple, dates, watermelon, orange etc. The students were also made

to understand the importance of tartness, bite and aroma which gives the wines their characteristic flavor. They were trained to estimate total and volatile acidity of the wine via titration. They were also shown the process of bottling, packing and storage of the wines.

In Bakery the students were briefed about the history of baking and bread making and its process. The students were given hands-on training in baking different types of items.

The details of the bakery course are as follows :

Baking course details

Pies:

1. Bannofee pie
2. Serradura
3. Apple crumble pie

Breads:

1. Brioche
2. Cloverleaf rolls
3. Grissini
4. Baguette

Cakes :

1. Chocolate cake
2. Chocolava cake
3. Vanilla cake
4. Blueberry/Chocochip muffin
5. Red velvet cupcake
6. Carrot/carrot walnut cake
7. Banana cinnamon bread
8. Ribbon cake

Biscuits:

1. Swiss tart
2. Shrewsbury biscuit
3. Welsh cheesecake pastry

Doughnuts:

1. Chocolate
2. Sugar
3. Stuffed

Owing to this course many of our students showed an interest in self-employment. Ms. Manasi Phadte from T.Y.B.Sc. Biotechnology has started her own enterprise from home. She bakes cakes as efficiently as a professional.

The Valedictory function took place on 28th March 2019 in the college, in presence of the Chief guest Mr. Deepak Parab, Member Secretary of GSCST, Principal of Dhempe College of Arts and Science, Dr.Vrinda Borker; Administrator, Mr. Rajesh Bhatikar.

All the students of Biotechnology and the teaching staff were present for the same.



Department of Chemistry

Report of the long term non-conventional course entitled “Analytical Tools for Chemical Analysis”.

The department of chemistry organised a long term integrated (faculty of NIO) value added non-conventional course entitled “Analytical Tools for Chemical Analysis” for SY BSC students in the month of May.

The course was conducted at National Institute of Oceanography, Dona Paula Goa. There it was coordinated by Dr Brenda Mascarenhas Principal Scientist Geological Oceanography Department.

In the Introductory session the students were briefed about the various CSIR Institutes in different parts of the country. They were also briefed about the functioning at the various departments of NIO.

The students were given hands on training on the Instrumentation techniques like XRD, SEM, AAS, ICP- MS. They were briefed regarding the working of Instruments and also their applications in the scientific field.

During this one-week tenure guest lectures were organized by expertise from the field of life sciences, Chemical, Physical and Geological and Environmental Sciences. The students were given exposure of the research carried out in different departments of NIO.

The student intake capacity was 25. The SYBSc students got registered for the course in the month of March, later they were divided into groups and the list was sent to National Institute of Oceanography.

Course Outcomes:

The students are well trained to operate the different Instruments like AAS, XRD, ICP, SEM. They also acquire the knowledge to carry out antimicrobial studies. This helps them to carry out Characterization studies for the TYBSc projects in the subjects of Chemistry, Physics, Geology, Zoology and Botany. The Course helps to increase the Research insight and analytical reasoning of the young and aspiring minds of the students.

Report of Non -Conventional Course, held from 02nd May to 14th May 2019, in the Department of Zoology

A Non-conventional course on "Value added Sea food Products" in the Department of Zoology was conducted from 2nd May 2019 to 14 May 2019. The Resource persons for the course were Mrs. Suchana P. Amonkar, Dr. K. K. Therisa, Dr. AvelynoD'costa, from Dhempe College of Arts and Science, Miramar, Mr. Pradeep Gawas from Fisheries Department and Mrs. ShamalKamale. The Course was conducted for 35 hours in eight days.

Lectures on Kinds of Sea food available in India as well as globally were discussed, various seafood products available both in National and International market were discussed through series of lectures and videos. Some of the National and International cuisines using Seafood were discussed along with lectures on Fisheries, Fish processing and Pearl cultures were done.

Practical sessions were handled by Mr. Pradeep and Mrs. Shamal, wherein recipes using seafood were made and students were given hands on training as well. Recipes such as Prawns pakoda, Prawns Pickle, Mackerel Chakali, and other dishes using Mackerel were conducted.



Saha
Coordinator - Skill Development
Courses Cell

2019-2020

In all 14 Skill Development Courses were conducted during this academic year for the benefit of the students of our college.

Sr. No.	Course Name	Department	No. of Students	Skill focused upon under 5.1.3
1	PHP & MYSQL (FYB.Sc Comp. Sc)	Computer Science	8	ICT/computing skills
2	GNU Image Manipulation Program (FYB.Sc Comp)	Computer Science	8	ICT/computing skills
3	C++ (S.Y.B.Sc Comp. Sc)	Computer Science	10	ICT/computing skills
4	Blender (S.Y.B.Sc Comp. Sc)	Computer Science	9	ICT/computing skills
5	Preparation for Competitive Courses (T.Y Comp. Sc)	Computer Science	6	ICT/computing skills
6	Data Analysis using Spreadsheet (T.Y.B.Sc Comp. Sc)	Computer Science	9	ICT/computing skills
7	Techniques in Fruit Preservation	Botany	10	Life Skills
8	Basic Statistics and Econometrics	Economics	12	Life Skills
9	Self Defense	Philosophy	11	Life Skills
10	Determination of Physico-Chemical and Microbiological Parameters in Drinking Water	Chemistry	13	
11	Fundamentals of GIS	Geology	9	
12	Mathematical Typesetting Latex	Mathematics	15	ICT/computing skills
13	Seize the Stage	English	13	Language and communication skills
14	Finesse in Formal Correspondence	English	19	Language and communication

			skills

Report of Value-added courses -Department of Computer Science

1. Name of the Course : **PHP & My SQL**
 PHP is a scripting language that is used in developing dynamic web application and My SQL for making the front end and the application interact with the database and hence store, retrieve and manipulate data related to the application.

No. of students : **09**
 Fees : **Rs.1500/-**
 Resource Person : **Mr. Senon Silvestre De Souza**
 Co-ordinator : **Mr. Senon Silvestre De Souza**
 Duration : (Dates) From : **26/8/2019 to 23/03/2020 (40 contact hours)**
Completed
 Attendance Record Maintained/Not Maintained : **Maintained**
 Certificates: Issued/Not issued : **Not Issued**
 Proposal: Submitted/Not submitted : **Submitted**
 Student forms: Submitted/Not submitted : **Submitted**
 Bills: Settled/Not settled : **Not settled**

2. Name of the Course : **GNU Image Manipulation Program (GIMP)**

GIMP is a free and open- source raster graphics editor. Wiber, undoing, common task, to draw lines, Gimp, gimp wizard, exporting, painting with Gimp, selection, quick mask, brushes comburing images, text management, trihance photographs, colour management, gridlines crudes, sculpting(Fu)

No. of students : **09**
 Fees : **Rs.1500/-**
 Resource Person : **Ms. Sonali S. Karapurkar**
 Co-ordinator : **Ms Teja Kundaikar**
 Duration : (Dates) From : **03/12/2019 to 14/3/2020 (40 contact hours)**
Completed
 Attendance Record Maintained/Not Maintained : **Maintained**
 Certificates: Issued/Not issued : **Not Issued**
 Proposal: Submitted/Not submitted : **Submitted**
 Student forms: Submitted/Not submitted : **Submitted**
 Bills: Settled/Not settled : **Not settled**

3. Name of the Course : **C++**
 C++ is an object oriented programming (oop)language. Students will learn concepts of object oriented programming over procedure oriented programming. Concepts like data encapsulation, data security,

polymorphism, inheritance, template classes, exception handling, defining classes and objects will be covered in detail with corresponding examples using C++ programming language.

No. of students : **10**
Fees : **Rs.1500/-**
Resource Person : **Mr. Snehal Harmalkar**
Co-ordinator : **Mr. Snehal Harmalkar**
Duration : (Dates) From : **02/08/2019 to 4/01/2020 (40 contact hours)**
Completed
Attendance Record Maintained/Not Maintained : **Maintained**
Certificates: Issued/Not issued : **Not Issued**
Proposal: Submitted/Not submitted : **Submitted**
Student forms: Submitted/Not submitted : **Submitted**
Bills: Settled/Not settled : **Not settled**

4. Name of the Course : **Blender**
Introduction to Blender, working with Blender package. software understanding graphics, used for creating 3D animations, videos, art etc., video editing and animation & Rigging

No. of students : **10**
Fees : **Rs.1500/-**
Resource Person : **Mrs. Sonali Karapurkar**
Co-ordinator : **Ms Teja Kundaikar**
Duration : (Dates) From : **07/01/2019 to 28/03/2020 (40 contact hours)**
Completed
Attendance Record Maintained/Not Maintained : **Maintained**
Certificates: Issued/Not issued : **Not Issued**
Proposal: Submitted/Not submitted : **Submitted**
Student forms: Submitted/Not submitted : **Submitted**
Bills: Settled/Not settled : **Not settled**

5. Name of the Course : **Preparation to Competitive Exam**
The students will be prepared for MCA entrance examination in various areas of Computer Science, logical reasoning, reasoning solving series of problems
- No. of students : **09**
Fees : **Rs.1000/-**
Resource Person : **Ms. Riya Naik & Ms. Azia D'Silva**
Co-ordinator : **Ms Teja Kundaikar**
Duration : (Dates) From : **04/07/2019 to 20/12/2020 (40 contact hours)**

	Completed
Attendance Record Maintained/Not Maintained	: Maintained
Certificates: Issued/Not issued	: Not Issued
Proposal: Submitted/Not submitted	: Submitted
Student forms: Submitted/Not submitted	: Submitted
Bills: Settled/Not settled	: Not settled

6. Name of the Course	: Data Analysis using Spreadsheet
Students will be able to do the following: Create a spreadsheet and perform the basic operation on the same Data analysis using the spreadsheet. Working with range names, tables cleaning data with function. Conditional formatting, Sorting, filtering, subtotal of the data in the spreadsheet, pivot table, data visualization, financial analysis, formula auditing, and data analysis.	
No. of students	: 09
Fees	: Rs.1000/-
Resource Person	: Ms Teja Kundaikar
Co-ordinator	: Ms Teja Kundaikar
Duration : (Dates) From	: 17/07/2019 to 20/12/2020 (40 contact hours)
Attendance Record Maintained/Not Maintained	: Maintained
Certificates: Issued/Not issued	: Not Issued
Proposal: Submitted/Not submitted	: Submitted
Student forms: Submitted/Not submitted	: Submitted
Bills: Settled/Not settled	: Not settled

Department of Botany ‘Techniques in fruit Presentation’

Report

A skill development course on ‘Techniques in fruit Presentation’ was conducted from 24th June 2019 to 29th June 2019 by department of Botany.

Prof. Manjiri Barve was the course coordinator. The short term certificate course was conducted as per the details in the proposal.

Ten, T.Y.B.Sc. Botany students attended the course.

Following preparations were demonstrated as well as hands on experience to prepare various preparations were carried out during the course.

They were trained to prepare –

Mango jam

Mango jelly

Mango squash

Pineapple jam

Pineapple squash

Ginger lime cordial and

Synthetic syrup.

Department of Economics - Basic Statistics and Econometrics course.

Report

The Department of Economics organized a skill development course on “Basic Statistics and Econometrics” on the 11th,12th,13th,14th,18th and 19th November 2019.

The objective of the course was to develop the skills of the students in data analysis and interpretations with a theoretical background.

The resource persons for the course were Dr .Dhaneesh Kumar T.K ,Assistant Professor,Department of Economics, Dnyanprassarak Mandal’s College and Research Centre , Shri Hussain Yasser Razak,Department of Economics, MES College of Arts and Commerce and Ms. Kavya Sudarsan, Department of Economics,Assistant Professor, Dhempe college of Arts and Science.

A total of 12 Economics students from FYBA and SYBA attended and benefitted from the course

DEPARTMENT OF PHILOSOPHY

Report of Skill Development Course on ‘Self- Defense’

DCT’S Dhempe College of Arts & Science, Department of Philosophy, under the leadership of Asst. Prof. Ms. Sendra Pereira, organized a 30 Hours Skill Development Course on Self-Defense from 11th to 21st November, 2019 from 2pm to 5pm in the College premises. The course instructor/ trainer were Mr. Arjun Kadam, who has completed his Masters in Philosophy and who is a trained Judo coach and has a Black Belt in Judo, NISC. 11 participants took benefits of this course.

The skills learnt by the students were as follows:

1. Warm-up exercises and stretching
2. Strengthening exercises (sit-ups and push-ups)
3. Basic postures

Techniques for eliminating dangers from daily living

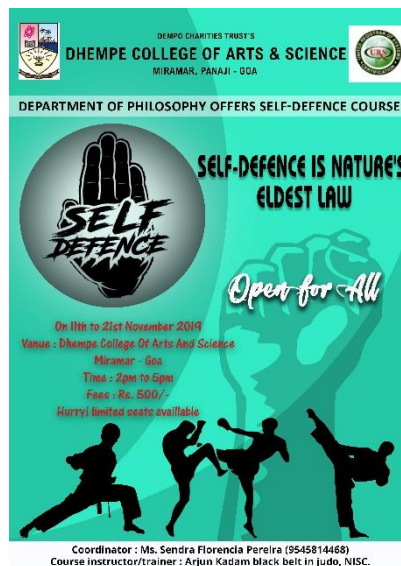
1. Far range combat (striking, blocking, kicking punching and escaping)
2. Close combat (throwing, falling, escaping)

Grappling techniques

1. Ducking, weaving, bobbing, feinting (chocks), parrying, evading and joint locks

The benefits of pursuing this course are as follows:

1. The student develops correct practice habits.
2. The student develops a regular/daily personal training routine.
3. The student can be in the 'ready position' and be prepared to execute physical defense techniques for a front attack.
4. The student develops strategies for staying safe at all times.
5. The student's personal awareness of his/her surroundings in the immediate, short and long terms are heightened.
6. The student has an increased sense of personal relaxation, balance and confidence.
7. The student can identify individual and social concerns and needs regarding self-defense, and has the means to address those concerns and needs.





Ms. Sendra Pereira

Course Coordinator

Department of Chemistry

Report of the long term non-conventional course entitled “Determination of physicochemical and microbiological parameters in drinking waters” for the academic year 2019-20.

The department of chemistry conducted a long term integrated (faculty of Chemistry and Zoology) value added non-conventional course entitled “Determination of physicochemical and microbiological parameters in drinking waters” for SY BSC students.

Duration of the course is of 33 hours which comprises of 4 sessions of lectures of one hour each and 29 hours of practical sessions. The intake capacity for the course is 25 students with a fee of Rs 1000/- per student. This year 16 students were enrolled for the course .

The course syllabus includes introduction to microbiological and physico- chemical parameters of drinking water, in addition there are practical sessions of determination of microbiological as well as physical and chemical parameters of drinking waters.

Course objective is to equip students with practical knowledge of determination of water quality to qualify whether water is hygienically safe and fit for consumption.

The students did practical sessions in Chemistry Laboratory for analysis of physical and chemical parameters of drinking waters. They also worked in the Zoology Laboratory for analysis of water samples for micobiological parameters .The course commenced on 17/11/2020.

The Course Co-ordinator is Mrs varsha D.Virginkar.

Geology Department

Skill Development Course: “Fundamentals of GIS”

Academic Year 2019 – 2020

Geographical Information System (GIS) is a framework designed to capture, store, manipulate, analyze, manage, and present spatial or geographic data. It is a multi-disciplinary and evolving technology. A knowledge of this system equips the student with a valuable skill which will promote their employability in the future.

In view of the above, the department of Geology, Dhempe College of Arts and Science, Miramar conducted a skill development certificate course in Fundamentals of GIS. The course was of 30 hours duration. The course began on 6th of November 2019 and ended on 12th of November 2019. A total of nine students were enrolled. The lectures and practicals were conducted in the department by Dr. Manoj Ibrampurkar and Mr. Aliston D’Souza. The students were introduced to the basic concepts of GIS and were provided a hands-on training of the QGIS software. As a culmination to the course, the students were given a project to digitize the map of Goa and then to mark their locality along with the major roads, water bodies, vegetation and landmarks.

The attendance record of the above said course and record of feedback from students has been maintained in the department. The bills of the course have been settled. The certificates have been issued to the participating students.



HoD, Geology

Report of the Skill Development Course in
'Latex - Mathematical Typesetting'

Department: Mathematics

The Department of Mathematics conducted a Skill Development Course in 'Latex – Mathematical Typesetting' from 6th November 2019 to 11th January 2020 for the T.Y.B.Sc and S.Y.B.Sc Maths students of the college. The resource person for the course was Miss. Akshita Singh (Alumni), Mr. Vitendra Mhatonkar (internal). The course was coordinated by Mr. Vitendra Mhatonkar. The course was of 30 hrs duration. It was attended by 13 T.Y.B.Sc and 2 S.Y.B.Sc Maths students. The students were introduced the basics of how LaTeX works, how to install Latex and TeXstudio, they were explained how to get started, and go through lots of examples.

This course will be helpful for students, manuscripts, maths papers in LaTeX. The students are now able to successfully install LaTeX and its related components on a home/personal computer, use LaTeX and various templates acquired from the course to compose Mathematical documents, presentations, and reports.

The T.Y.B.Sc students typed their project successfully using Latex.

REPORT

Skill Development Courses

Digital Language Laboratory and Skill Development Centre

Miramar-Goa

SEIZE THE STAGE

A 30-hour skill development course titled, 'Impressions - Seize the Stage' was conducted by the Department of English from August 26, 2019. The objectives of this course were to:

1. Equip students for careers in theatre, cinema as well as mass communication.
2. Guiding students towards commencement of personality-enhancement classes as well as utilizing the medium of theatre through social entrepreneurship for activities related to extension and outreach.

The course covered a wide range of skills in *nāṭya* pertaining to acting rubrics combined with communication skills, facial expressions, confidence-building, stage-presence, make-up skills, Indian stage costume design, perception and feedback through performative and participatory workshops. The course was largely conducted in a hands-on mode with emphasis on timing, coordination, stage-sync and voice modulation.

Ms. Clarinda Dias was the coordinator of the course and Ms. Jagruti Patkar was the Resource Person.



Occupying centre-stage

Total number of hours: 30

Total number of participants: 14

FINESSE IN FORMAL CORRESPONDENCE

The Department of English in collaboration with the Digital Language Laboratory and Skill Development Centre of Dhempe College of Arts and Science organized 'Finesse in Formal Correspondence', a thirty hour skill development course, that commenced in January 2020. The course saw a participation of 19 final year students of MSc, Analytical Chemistry. The course aimed at honing communication skills- spoken as well as written- through a series of blended learning techniques that were participatory and interactive and often peer assessed.

The course was designed to efficiently equip students to deal with situations pertaining to academic and career centric correspondence and etiquette.

Over the course of thirty hours, the participants were provided with intensive training in topics that ranged from verbal and non-verbal communication with a focus on effective delivery to soft skills training, preparation for interviews, building of a resume and a CV., how to effectively construct and respond to e-correspondence as well as academic writing with a focus on citations and means to avoid plagiarism.

Towards the end of the course, the participants focused on preparing for upcoming on-campus interviews with pharmaceutical companies such as Unichem Laboratories Ltd. and Sanofi India Ltd. **Nine students were recruited in the above-mentioned organizations.**

The course was conducted by in-house resource person Ms. Rochelle Fernandes.



Enhancing formal correspondence

Total number of hours: 30

Total number of participants: 19

Total number of participants placed through recruitment: 09

Jaha
Coordinator - Skill Development
Courses Cell