



**HISLOP COLLEGE**

**Nagpur**

### 1.2.2 Number of Add on /Certificate programs offered during 2018-19

(Supporting documents attached)

| Name of Add-on /Certificate programs offered   | Duration of course | Number of students enrolled in the year | Number of Students completing the course in the year |
|--|--------------------|---|--|
| Food Preservation and Quality Control  | 22 Days 30 Hours   | 30                                      | 30   |
| Bioinformatics   | 10 Days 30 Hours   | 17                                      | 17   |
| JMOL Application and Biopython   | 10 Days 30 Hours   | 18                                      | 18   |
| Certificate Course in Allied Agricultural skills under RTMNU Board of Lifelong Learning (DOLLE/72/18 dated 13.07.2018) | 26 Days 30 Hours   | 30                                      | 30   |
| Research Methodology (RTMNU Jeevan Shikshan Abhiyan)   | 21 Days 32 Hours   | 36                                      | 36   |
| Certificate on Hardware and Networking   | 30 Days 60 Hours   | 39                                      | 39   |
| Campus to Corporate  | 20 Days 50 Hours   | 12                                      | 12   |
| Skill oriented three week certificate course on 'Data Science with R'  | 11 Days 30 Hours   | 18                                      | 18   |

RASHTRASANT TUKDOJI MARATHI NAGPUR UNIVERSITY  
DEPARTMENT OF LIFELONG LEARNING AND EXTENSION  
PROPOSAL FOR CONDUCTING SHORT TERM CERTIFICATE COURSE UNDER  
JEEVAN SHIKSHAN ABHIYAN

1. Basic Information about the applicant College/Departments :

- (i) Name of the College/Department : Biochemistry
- (ii) Complete Postal Address of College/Department : Department of Biochemistry  
Hislop College  
Civil Lines, Nagpur
- (iii) Phone Number : 0712-2532004, 9823115736
- (iv) Name of the Principal/University Deptt. With the Full Postal Address : Dr. Dipti Christian  
Hislop College, Temple Road  
Civil Lines, Nagpur 440001
- (v) Phone Number /Mobile : 0712-2532004

2. Details of the Course Proposed :

- (i) Name of the Course : Certificate Course in "Food Preser-  
tion and Quality Control"
- a. Certificate  
 b. Diploma  
 c. Advance Diploma
- (ii) Target Group : Undergraduate & Post graduate Stu-
- (iii) Duration of the Course : 30 days (1 month)
- (iv) Timings : 2:00 pm - 3:00 pm
- (v) Medium of Instruction : English
- (vi) No. of candidates to be admitted : 20
- (vii) Fees to be Charge per students : Rs 1000/-

3. Details of the Faculty for Course :

- (i) Whether College /Department has any Degree/  
Diploma Course related to the  
Proposed course :-  YES /  NO
- (ii) Whether the course is prepared by  
Experts from related field  YES /  NO

(iii) Information of Course Co-ordinator (To be appointed for the course):

| Name and Address          | Qualification     | Experience                           |
|---------------------------|-------------------|--------------------------------------|
| <u>Dr. Mashittha Pise</u> | <u>M.Sc. Ph.D</u> | <u>17 years</u><br><u>(Teaching)</u> |

(P.T.O.)

## (iv) Information of Faculty Members (To be appointed for the course)

| S.No. | Name of the Faculty Member | Qualification | Topics                          | Full Postal Address                               |
|-------|----------------------------|---------------|---------------------------------|---|
| 1.    | Dr. Rashmi Dadhye          | M.Sc. Ph.D    | Food Preservation & Regulations | Dept. of Biochemistry<br>Hislop College<br>Nagpur |
| 2.    | Mrs. Recha Dubey           | M.Sc.         | Lab methods                     | — " —   |
| 2.    | Mrs. S. Surkar             | M.Sc.         | Lab Methods                     | — " —   |
| 4.    | Dr. A. Sahay               | M.Sc., Ph.D   | Food Adulterations              | — " —   |

## 4. Details of the Physical Facility to be provided for the course :

- (i) Class Room : Yes.
- (ii) Library : Yes.
- (iii) Equipments : Microbiology Lab equipments
- (iv) Any Other : \_\_\_\_\_
- (v) Expenditure : \_\_\_\_\_

| Sr.No. | Particulars                  | Amount                  |
|--------|------------------------------|-------------------------|
| 1      | Honorarium to Teaching Staff | Rs 300 / Lecture (1 hr) |
| 2      | Materials                    | Rs 3000 / -             |
| 3      | Contingencies                | Rs 2000 / -             |

Receivable  
Signature & Seal of the  
**PRINCIPAL** Head of Department  
**HISLOP COLLEGE**  
**NAGPUR**

**UNDERTAKING**

118 Mr./Mrs. Dr. Mashitha Pise  
Principal / Head of the Department Biochemistry  
Undertrake to state that I shall be abiding by rates & regulations of the Department regarding the organization of course.

Dated : 24.7.2018

Mashitha  
Signature & Seal of the  
Director  
PG Biochemistry  
Hislop College  
Nagpur-440001



**HISLOP COLLEGE**  
RECEIPT

**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY**  
Department of Lifelong Learning and Extension  
Gurunank Bhavan, University Campus, Amravati Road, Nagpur - 440 033. Phone : 2530860  
E-mail : doll\_rtmnu@gmail.com



No.DOLLE/101/18  
Dated : 28-8-2018

To,  
The Principal  
Hislop College,  
Nagpur.

**Subject : Sanction for Conducting Short Term Courses under Jeevan Shikshan Abhiyan on No Grant Basis.**

Sir/Madam,

With reference to your proposal for conducting Short Term courses indicated below under Jeevan Shikshan Abhiyan of this Department, I am to inform you that your proposal has been accepted by the Department and your College has been granted permission to conduct the course on the following conditions:

**Details of the Course**

| Sr. No. | Name of the Course  | Duration  | No. of Candidates to be admitted | Fees to be Charged per Student | Fees to be Deposited With the Deptt. |
|---------|---|-----------|----------------------------------|--------------------------------|--------------------------------------|
| 1       | Certificate Course in Bioinformatics                        | One Month | 30                               | 1000/-                         | 10%                                  |
| 2       | Certificate Course in Food Preservation and Quality Control | One Month | 30                               | 1000/-                         | 10%                                  |

**Rules & Regulations of this Department regarding these courses should be strictly followed.**

1. This sanction is valid for this particular Batch only.
2. Fees for the course should be charged as per the norms prescribed.
3. Expenditure on the course should be incurred as per norms.
4. Course should be started within a Month from the date of sanction.  
Please communicate your acceptance within a month and submit Initial Report  
Along with list of students admitted.

*Dr. M. Pise*  
*3-8-18*

Your's faithfully,  
*[Signature]*  
Director

**CURRICULUM FOR ONE MONTH CERTIFICATE COURSE  
IN  
FOOD PRESERVATION AND QUALITY CONTROL**

**CURRICULUM:**

Duration: 30 Days

Level: Certificate

Eligibility: 10+2 or its equivalent exam from recognized School/Board

**SYLLABUS:**

| S.No. | Module          | Name of Module                     | Duration |
|-------|-----------------|------------------------------------|----------|
| 1     | Module 1        | Food Science                       | 5 Hours  |
| 2     | Module 2        | Food Adulteration and Preservation | 5 Hours  |
| 3     | Module 3        | Food Quality Research and Control  | 7 Hours  |
| 4     | Module 4        | <b>Laboratory Methods</b>          | 10Hours  |
| 5     | Test/Evaluation | Assessment                         | 3Hours   |



RASHTRASANT TUKDOJI MAHARAJ NAGPUR UNIVERSITY  
DEPARTMENT OF LIFELONG LEARNING AND EXTENSION  
INITIAL REPORT UNDER JEEVAN SHIKSHAN COURSES

1. Name of the Course : Food Preservation and Quality Control
2. Name of the College/Departments Organising : Department of Biochemistry, Hislop College, Nagpur  
Ph.No. 0712-2532004
3. Name and Address of the Course Co-Ordinator : Dr. Mashita Pise, Dept. of Biochemistry  
E-mail: pmmashi@gmail.com  
Ph.No. 9823115736
4. Venue of the Course with full address : Class Room : CB-5, Hislop College  
Nagpur.
5. Date of Starting the Course : 30.08.2018
6. Timings of the Course (Attach a copy of Time-Table) : 3:00 pm to 4:00 p.m.
7. Duration : 1 hour / day (Total 30 hours)
8. Medium of Instruction : English
9. No. of Students Admitted (Attach a List with Names) : 30 students (List attached)
10. Accomodation available (Class Rooms) with furniture keeping in view the No. of Candidates to be admitted to The course. : Yes. Classroom

11. Information of Faculty Member

| S.No. | Name   | Topics to be Taught | Full Postal Address | Phone No. if any |
|-------|--|---------------------|---------------------|------------------|
| 1.    | <u>Please See Annexure I</u>   |                     |                     |                  |
| 12.   | <u>Any other matter relating the course</u> : <u>Two visits (Industrial visit + Visit to Food &amp; Nutrition Dept. Hislop College Nagpur)</u> |                     |                     |                  |
| 13.   | <u>Total Fees Charged Per Student</u> : <u>Rs 1000/-</u>   |                     |                     |                  |
| 14.   | <u>Amount of Enrolment Fees to be deposited with the Deptt.</u> : <u>Rs 3000/- (DD No. 9177 dt. 29.09.2018 drawn on Indian Overseas Bank)</u>  |                     |                     |                  |

SIGNATURE & SEAL OF THE COLLEGE / HEAD OF THE INSTITUTION

SIGNATURE & SEAL OF THE COURSE CO-ORDINATOR

NOTE : This report is to submitted to this office within a month from the date of sanction. Separate proforma be used for each course.

## Annexure I

(Details of topics covered with Time-table)

| Sr. No. | Date    | Duration | Name of the Faculty                   | Topic  |
|---------|---------|----------|---------------------------------------|--|
| 1.      | 30.8.18 | 1 hr     | Dr. Rashmi Padhye                     | Introduction to the course, Basic Food Groups  |
| 2.      | 31.8.18 | 1 hr     | Dr. Rashmi Padhye                     | Role of Carbohydrates, proteins etc            |
| 3.      | 1.9.18  | 1 hr     | Dr. Rashmi Padhye                     | Visit to Dept. of Nutrition, Raison College    |
| 4.      | 3.9.18  | 1 hr     | Dr. Rashmi Padhye                     | Energy requirements                            |
| 5.      | 4.8.18  | 1 hr     | Dr. Rashmi Padhye                     | BMR, SDA measurement and importance            |
| 6.      | 5.8.18  | 1 hr     | Dr. Rashmi Padhye                     | Anti nutrients and their importance            |
| 7.      | 6.8.18  | 1 hr     | Mrs. Richa Dubey                      | Food storage techniques                        |
| 8.      | 7.8.18  | 1 hr     | Mrs. Richa Dubey                      | Preservation                                   |
| 9.      | 8.8.18  | 1 hr     | Dr. Mashitha Pise                     | Food adulteration                              |
| 10.     | 10.8.18 | 1 hr     | Mrs. Sudipta Sarkar                   | Food safety                                    |
| 11.     | 11.8.18 | 1 hr     | Dr. Rashmi Padhye                     | Food quality control                           |
| 12.     | 12.8.18 | 3 hr     | Dr. Rashmi Padhye                     | Food Preservation( Lab Activity)               |
| 13.     | 14.8.18 | 1 hr     | Dr. Rashmi Padhye                     | Consumer protection laws                       |
| 14.     | 15.8.18 | 1 hr     | Dr. Rashmi Padhye                     | Food Allergens                                 |
| 15.     | 18.8.18 | 1 hr     | Dr. Sudipta Sarkar                    | Food processing                                |
| 16.     | 21.8.18 | 1 hr     | Dr. Rashmi Padhye                     | Introduction to the course, Basic Food Groups  |
| 17.     | 22.8.18 | 4 hr     | Dr. Rashmi Padhye                     | Microbial quality assessment of dairy products |
| 18.     | 24.9.18 | 1 hr     | Dr. Mashitha Pise                     | HACCP , Hazard analysis                        |
| 19.     | 25.8.18 | 2 hr     | Dr. Rashmi Padhye                     | Physico-Chemical quality assessment            |
| 20.     | 26.9.18 | 2 hr     | Mrs. Richa Dubey & Mrs Sudipta Sarkar | Food Adulteration testing( Lab activity)       |
| 21.     | 27.9.18 | 2 hr     | Dr. Rashmi Padhye                     | Visit to Haldiram's Quality control unit       |
| 22.     | 28.9.18 | 1 hr     | Dr. Rashmi Padhye                     | Test and evaluation                            |

**Postal Address of Faculty Members:**

Department of Biochemistry,  
Hislop College, Nagpur-440001

Signature of Course Co-ordinator

**HISLOP COLLEGE**  
**P.G. DEPARTMENT OF BIOCHEMISTRY**  
**Evaluation Paper I**  
**Food Preservation & Quality Control"**  
**LIST OF STUDENTS**

| Sr. No. | Name of the Student             | Signatures    |
|---------|---------------------------------|---------------|
| 1.      | Surabhi Umredkar                | Surabhi       |
| 2.      | Pratik Akulwar                  | P. R. Akulwar |
| 3.      | Treta Wadibhasme                | Treta         |
| 4.      | Shubham Yele                    | Shubham       |
| 5.      | Mayuri Gajbhe                   | Mayuri        |
| 6.      | Misbah Samreen                  | Misbah        |
| 7.      | Tanushree Thawkar               | Tanushree     |
| 8.      | Pauline Joseph                  | Pauline       |
| 9.      | Sumit Sahare <del>Shahare</del> | Sumit         |
| 10.     | Rakshit Wankhede                | Rakshit       |
| 11.     | Annu Bhattacharya               | Annu          |
| 12.     | Tanushree Bhange                | Tanushree     |
| 13.     | Samiksha Kumbhalkar             | Samiksha      |
| 14.     | Afreen Shaikh                   | Afreen        |
| 15.     | Husban Khan                     | Husban        |
| 16.     | Shruti Thool                    | Shruti        |
| 17.     | Sakshi Choudhari                | Sakshi        |
| 18.     | Deboshree Dutta                 | Deboshree     |
| 19.     | Mayuri Shende                   | Ms. Shende    |
| 20.     | Khushboo Sayyad                 | Khushboo      |
| 21.     | Shraddha Wanve                  | Shraddha      |
| 22.     | Danish Patel                    | Danish        |
| 23.     | Anuj Shahare                    | Anuj          |
| 24.     | Shiba Shaikh                    | Shiba         |
| 25.     | Neha Raut                       | Neha          |
| 26.     | Tejaswini Kashyap               | Tejaswini     |
| 27.     | Sakshi Shinde                   | Sakshi        |
| 28.     | Gurpreet Kaur                   | Gurpreet      |
| 29.     | Rahul Vishwakarma               | Rahul         |
| 30.     | Shreya Gupta                    | Shreya        |





**HISLOP COLLEGE**  
NAGPUR  
**RECEIPT**  
15/6 8-8-18  
RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY  
Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August 1925 &  
Prescribed a State University according to Ministry of Education (G.O. No. 1007 dated 20/10/1956) (M.P. Act No. 20 of 1956)  
**DEPARTMENT OF LIFELONG LEARNING AND EXTENSION**  
Gurunanak Bhavan, University Campus, Amravati Road, Nagpur - 440 033. Phone : 2530860  
E-mail : doll\_rtmnu@gmail.com

To,  
The Principal  
Hislop College,  
Nagpur.

No.DOLLE/101/18  
Dated - 2.8.2018

**Subject :** Sanction for Conducting Short Term Courses under  
Jeevan Shikshan Abhiyan on No Grant Basis.

Sir/Madam,

With reference to your proposal for conducting Short Term courses indicated below under Jeevan Shikshan Abhiyan of this Department, I am to inform you that your proposal has been accepted by the Department and your College has been granted permission to conduct the course on the following conditions:

**Details of the Course**

| Sr. No. | Name of the Course  | Duration  | No. of Candidates to be admitted | Fees to be Charged per Student | Fees to be Deposited With the Deptt. |
|---------|---|-----------|----------------------------------|--------------------------------|--------------------------------------|
| 1       | Certificate Course in Bioinformatics                        | One Month | 30                               | 1000/-                         | 10%                                  |
| 2       | Certificate Course in Food Preservation and Quality Control | One Month | 30                               | 1000/-                         | 10%                                  |

**Rules & Regulations of this Department regarding these courses should be strictly followed.**

1. This sanction is valid for this particular Batch only.
2. Fees for the course should be charged as per the norms prescribed.
3. Expenditure on the course should be incurred as per norms.
4. Course should be started within a Month from the date of sanction.  
Please communicate your acceptance within a month and submit Initial Report  
Along with list of students admitted.

J. M. Kise  
Received  
8-8-18

Your's faithfully,  
  
Director

RASHTRASANTUKDOJI MAHARAJ NAGPUR UNIVERSITY  
DEPARTMENT OF LIFELONG LEARNING AND EXTENSION  
INITIAL REPORT UNDER JEEVAN SHIKSHAN COURSES

1. Name of the Course : Bioinformatics
2. Name of the College/Departments Organising : Department of Biochemistry, Hislop College, Nagpur.  
Ph No 0712-2532004
3. Name and Address of the Course Co-Ordinator : Dr. Madhita Bose, Department of Biochemistry  
E-mail pmmadhi@gmail.com  
Ph No 9823115736
4. Venue of the Course with full address : Skill Development Lab, Hislop College, Nagpur.
5. Date of Starting the Course : 03.09.2018
6. Timings of the Course (Attach a copy of Time-Table) : 30 hrs. (4.00pm - 3.00pm)
7. Duration : 30 hrs.
8. Medium of Instruction : English
9. No. of Students Admitted (Attach a List with Names) : 17 (List Attached)
10. Accomodation available (Class Rooms) with furniture keeping in view the No. of Candidates to be admitted to The course. : Yes. (Skill development Room) with computer facility.

| S.No. | Name | Topics to be Taught | Full Postal Address | Phone No. if any |
|-------|------|---------------------|---------------------|------------------|
|-------|------|---------------------|---------------------|------------------|

12. Any other matter relating the course : \_\_\_\_\_
13. Total Fees Charged Per Student : Rs 1000/-
14. Amount of Enrolment Fees to be deposited with the Deptt. : Rs 17,000/- (DD No. 969790986 dt. 29.07.2018 drawn on: Indian Overseas Bank)

[Signature]  
PRINCIPAL  
COLLEGE / HEAD OF THE INSTITUTION



[Signature]  
SIGNATURE & SEAL OF THE  
COURSE CO-ORDINATOR

NOTE: This report is to submitted to this office within a month from the date of sanction. Separate proforma be used for each course.

## Annexure I

(Details of topics covered with Time-table)

| Sr. No. | Date     | Duration | Name of the Faculty | Topic   |
|---------|----------|----------|---------------------|---|
| 1.      | 03.09.18 | 2hr      | Dr. Archana Sahay   | Introduction to Bioinformatics: Applications of Bioinformatics  |
| 2.      | 04.09.18 | 2 hr     | Dr. Archana Sahay   | Application of bioinformatics in drug designing   |
| 3.      | 05.09.18 | 1 hr     | Dr. Archana Sahay   | Bioinformatics resources  |
| 4.      | 06.09.18 | 4 hr     | Dr. Dilip Gore      | Biological Databases: Overview to Biological Databases, Nucleotide Databases (GenBank, DDBJ, ENA), Sequence analysis: Sequence similarity search, BLAST, FASTA, CLUSTAL |
| 5.      | 07.09.18 | 4hr      | Dr. Dilip Gore      | Protein sequence databases (Uniprot, Swiss prot, Prosite, Pfam, Prodom), Protein structure databases (PDB, SCOP, CATH)  |
| 6.      | 08.09.18 | 4hr      | Dr. Dilip Gore      | Genomics: Introduction to Genomics, Comparative Genomic Databases, Objective of Genome Comparisons, Genome Alignments   |
| 7.      | 09.09.18 | 4 hr     | Dr. Dilip Gore      | Proteomics: Overview of Proteomics, Experimental Techniques, Bioinformatics Approaches, Protein-Protein Interaction, Databases and software                             |
| 8.      | 10.09.18 | 3hr      | Dr. Dilip Gore      | Practicals  |
| 9.      | 11.09.18 | 3 hr     | Dr. Dilip Gore      | Practicals  |
| 10.     | 12.09.18 | 3 hr     | Dr. Dilip Gore      | Evaluation  |

Department of Biochemistry,  
Hislop College, Nagpur-440001

  
Signature of Course Co-ordinator



HISLOP COLLEGE

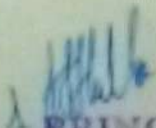
P.G. DEPARTMENT OF BIOCHEMISTRY

Certificate Course on "Bioinformatics"

03/09/18 TO 12/09/18

LIST OF STUDENTS

| Sr. No. | Name of the Students   | Signature   |
|---------|------------------------|-------------|
| 1.      | Treta Wadibhasme       | Treta       |
| 2.      | Mayuri Gajbhe          | Mayuri      |
| 3.      | Misbah Samreen         | Misbah      |
| 4.      | Annu Bhattacharya      | Annu        |
| 5.      | Sarmishtha Dasgupta    | Sarmishtha  |
| 6.      | Kajol Mukherjee        | Kajol       |
| 7.      | Aditi Pahlania         | Aditi       |
| 8.      | Oshan Francis          | Oshan       |
| 9.      | Imran Ali              | Imran       |
| 10.     | Jaanita George         | Jaanita     |
| 11.     | Mayuri Raipure         | Mayuri      |
| 12.     | Priyanka Dharwal       | Priyanka    |
| 13.     | Ankita Singh           | Ankita      |
| 14.     | Palash Thakre          | Palash      |
| 15.     | Matyuri Chahande       | Matyuri     |
| 16.     | Bhagyashree Paithankar | Bhagyashree |
| 17.     | Unnati Shahu           | Unnati      |

  
PRINCIPAL  
HISLOP COLLEGE  
NAGPUR



## “Interdepartmental Workshop ON “Jmol Application and BioPython””

**Date:** 11/02/2019-20/02/2019

**Objective:** -To make students aware of Jmol Application and BioPython

**Report:-**

Interdepartmental Workshop on “Jmol Application and BioPython” was jointly organized by Department of Computer Science and Department of Biochemistry (P.G.) for Students of the Biochemistry from 11/02/2019-20/02/2019.

The event was inaugurated and conducted in the presidential presence of Head of the Department, Computer Science, Dr. (Mrs.) Mamta Baheti. Resource person Dr. Mamta Baheti, briefed about the various features of Jmol software and BioPython. She briefed about the DNA mapping, molecule design, etc. Dr. Mashitha Pise, Mrs. Richa Dubey, Mrs. Sudipta Sarkar, Dr. Rashmi Padhye and Mr. Ashish Shah took the efforts to make the workshop a success.

**Participants:** 19



**DEPARTMENT OF COMPUTER SCIENCE**  
in Collaboration with  
**DEPARTMENT OF BIOCHEMISTRY (P. G.)**

Event: **WORKSHOP ON JMOL APPLICATION AND BIOPYTHON**

| Sr. No | Name of Student        | Day1         | Day2         | Day3         | Day4         | Day5         | Day6         | Day7         | Day8         | Day9         | Day10        |
|--------|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 1      | Imroz N. Ali           | Imroz        | Imroz        | Imroz        | Imroz        | Imroz        | Imroz        | Imroz        | Imroz        | Imroz        | Imroz        |
| 2      | Masumilla Dasgupta     | M Dasgupta   | M Dasgupta   | M Dasgupta   | M Dasgupta   | M Dasgupta   | M Dasgupta   | M Dasgupta   | M Dasgupta   | M Dasgupta   | M Dasgupta   |
| 3      | OSHIN FRANCIS          | Oshin        | Oshin        | Oshin        | Oshin        | Oshin        | Oshin        | Oshin        | Oshin        | Oshin        | Oshin        |
| 4      | Ashish V. Meshram      | Ashish       | Ashish       | Ashish       | Ashish       | Ashish       | Ashish       | Ashish       | Ashish       | Ashish       | Ashish       |
| 5      | Bhagyashree Patilankar | B Patilankar | B Patilankar | B Patilankar | B Patilankar | B Patilankar | B Patilankar | B Patilankar | B Patilankar | B Patilankar | B Patilankar |
| 6      | Mayuri V. Chakande     | Mayuri       | Mayuri       | Mayuri       | Mayuri       | Mayuri       | Mayuri       | Mayuri       | Mayuri       | Mayuri       | Mayuri       |
| 7      | Ankita B. Singh        | A Singh      | A Singh      | A Singh      | A Singh      | A Singh      | A Singh      | A Singh      | A Singh      | A Singh      | A Singh      |
| 8      | Priyanka J. Daharwal   | Priyanka     | Priyanka     | Priyanka     | Priyanka     | Priyanka     | Priyanka     | Priyanka     | Priyanka     | Priyanka     | Priyanka     |
| 9      | Swarna S. Budafwar     | Swarna       | Swarna       | Swarna       | Swarna       | Swarna       | Swarna       | Swarna       | Swarna       | Swarna       | Swarna       |
| 10     | Priya T. Jogi          | Priya        | Priya        | Priya        | Priya        | Priya        | Priya        | Priya        | Priya        | Priya        | Priya        |
| 11     | Shilajit Banerjee      | Shilajit     | Shilajit     | Shilajit     | Shilajit     | Shilajit     | Shilajit     | Shilajit     | Shilajit     | Shilajit     | Shilajit     |
| 12     | Paresh Manoj Thakre    | Paresh       | Paresh       | Paresh       | Paresh       | Paresh       | Paresh       | Paresh       | Paresh       | Paresh       | Paresh       |
| 13     | Aditi R. Pathania      | A Pathania   | A Pathania   | A Pathania   | A Pathania   | A Pathania   | A Pathania   | A Pathania   | A Pathania   | A Pathania   | A Pathania   |
| 14     | Nutan S. Dangare       | N Dangare    | N Dangare    | N Dangare    | N Dangare    | N Dangare    | N Dangare    | N Dangare    | N Dangare    | N Dangare    | N Dangare    |
| 15     | Mayuri S. Ramesh       | M Ramesh     | M Ramesh     | M Ramesh     | M Ramesh     | M Ramesh     | M Ramesh     | M Ramesh     | M Ramesh     | M Ramesh     | M Ramesh     |
| 16     | Kajal Mukherjee        | Kajal        | Kajal        | Kajal        | Kajal        | Kajal        | Kajal        | Kajal        | Kajal        | Kajal        | Kajal        |
| 17     | Vanita Mago            | V Mago       | V Mago       | V Mago       | V Mago       | V Mago       | V Mago       | V Mago       | V Mago       | V Mago       | V Mago       |
| 18     | Jeenita George         | J George     | J George     | J George     | J George     | J George     | J George     | J George     | J George     | J George     | J George     |
| 19     |                        |              |              |              |              |              |              |              |              |              |              |

PRINCIPAL  
BISLOP COLLEGE

Department of Botany

HISLOP COLLEGE



RTMNU certified course in

# Allied Agricultural Skills 2018-19

Sanctioned by

RTMNU Board of Lifelong  
Education & Learning



**FLORICULTURE**

Floriculture, a division Horticulture, involves production of flowers crops either under controlled conditions or in open fields. This is also known as flower farming. A hands-on training on floriculture was provided to the students. The session included the following:

Students were briefed on topics related to soil texture, soil structure, drainage, and erosion. These are aspects related to soil management since assessment of the soil is the first step towards planting a floriculture crop.

Purposes of usage of shallow, small containers for germinating seeds and rooting of cuttings, while bigger containers having sufficient depth used for growing the plants was elucidated. Various types of containers prepared from earth, plastic, metal, cement concrete which are available for propagation and growth of nursery plants were shown to the students. A detailed work out on different types of containers and method of filling up of pots and polythene was demonstrated and students were made to execute the same as part of the training.



The vegetative methods of plant propagation namely, budding, cutting, grafting and air layering were demonstrated and explained as below.





Grafting is a method of vegetative propagation in which a segment (called scion) of a plant to be propagated is inserted onto another plant (called stock) in such a way that their vascular tissues combine. Combination of vascular tissues of scion and stock allows growth of the grafted segment, i.e., scion.



Layering: in which a branch of a plant is bent towards the ground and covered with moist soil. After some time, adventitious roots develop where a node touches the soil and shoot or new plantlets develop from the lateral meristem. These new plantlets eventually establish themselves in the soil. They can be separated from the

parent plant and can be grown as independent plants.

Stem Cutting: wherein the lower part of cuttings of plants around 15-20 cm long are put inside the soil in separate pots. Roots will develop inside and buds on the nodes of the cuttings will start sprouting. The cuttings are provided with some IAA (indole acetic acid) which is a growth hormone for initiating root formation.

Budding: is a grafting technique in which a single bud from the desired scion is used rather than an entire scion containing many buds. Most budding is done just before or during the growing season.

A detailed session on germination tray preparation, seed sowing, maintenance, and disease control of seedlings was explained. Transplantation of seedlings and precautions involved were also explained. Students were made to carry out these processes as a part of their training.

A session on organic manure preparation was conducted and method of maintenance process for ornamental plants with regard to the schedule of watering, weeding, manuring and disease control techniques were explained. This on field training was followed by training on tissue culture techniques.

## **TISSUE CULTURE TECHNIQUES**

Plant tissue culture is a collection of techniques used to maintain or grow plant cells, tissues or organs under sterile conditions on a nutrient culture medium of known composition. Plant tissue culture is widely used to produce clones of a plant in a method known as micro-propagation. Plant Tissue Culture has become an important alternative where any plant species can be cloned and a large number of genetically uniform disease-free plants can be obtained within a short period of time. The technique enables production of plants in a small laboratory space round the year, independent of season. A hands-on training on Tissue culture techniques was designed to provide the theory sessions and lab exercises. The session included the following:



Day 1 Orientation lecture was undertaken in order to introduce the subject of plant tissue culture with special emphasis on floriculture.

On Day 2 Students were introduced to different Instrumentation in Plant Tissue Culture. The principle and working of all the instruments were discussed in detail and made aware of handling of instruments. The importance of sterilization of glassware and media through autoclaving techniques was discussed which a prime importance in Plant tissue culture. They were also taught how to make cotton plugs which are essential component to avoid and minimize contamination.





On Day 3 Basics of plant cells tissue culture requirements, preparation of stock solution for culturing, media compositions, media preparations were explained. On the same day, the plant tissue culture medium which is an artificial nutrient supplemented with organic inorganic nutrients carbon source and plant growth hormones like auxin and cytokinins, was prepared by the students. The students were introduced to how to adjust pH of the media and how to use autoclave.



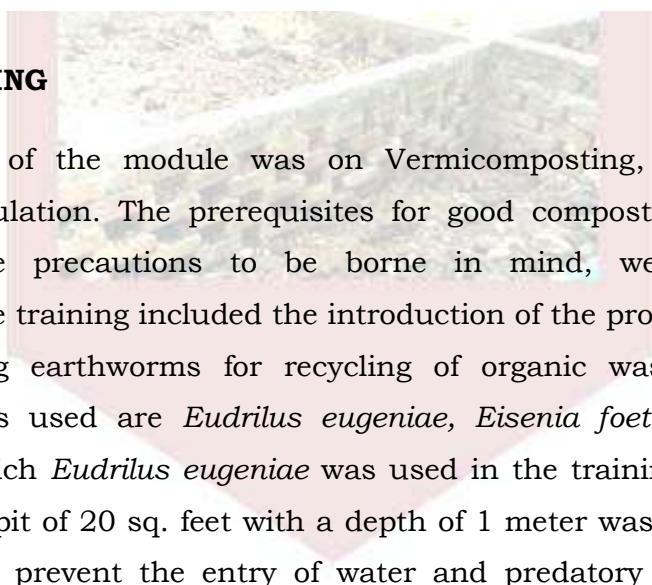
On Day 4 This session consisted of practical where procuring of explants and their sterilization was performed. Importance of

maintenance of aseptic condition during inoculation was imparted. The explants inoculation was taught and students had hands on experience in explants inoculations.

This hand on training on plant tissue culture was followed by training on vermicomposting.

## **VERMICOMPOSTING**

The second part of the module was on Vermicomposting, biopesticides with *Trichoderma* formulation. The prerequisites for good composting, the conditions required and the precautions to be borne in mind, were all dealt with systematically. The training included the introduction of the process of formation of compost by using earthworms for recycling of organic wastes. The common earthworm species used are *Eudrilus eugeniae*, *Eisenia foetida* and *Lumbricus rubellus* etc of which *Eudrilus eugeniae* was used in the training process. For the training a square pit of 20 sq. feet with a depth of 1 meter was used. The pit was under a shade to prevent the entry of water and predatory birds. Bricks were



spread on the bottom of the pit along with some coarse sand to facilitate the drainage. Pit was covered by a layer of loamy soil which was moistened and *Eudrilus eugeniae* were inoculated. The pit was then covered by a layer of agro wastes, and the nuances of pH, humidity and temperature were explained to the students.



*Trichoderma* species are free-living fungi that occur in nearly all the soils and other natural habitats. The genus *Trichoderma* comprises a great number of fungal strains that act as biological control agents, the antagonistic properties of which are based on the activation of multiple mechanisms. The use of microbial fungicides as one of



the major components of IPM is gaining acceptance, as these are generally specific, apparently harmless to the beneficial insects, animals, and human beings with no residue problems and environmental hazards. Understanding the potential of this, the students were trained on introducing *Trichoderma* cultures to the compost, thus enhancing and enriching the organic formulation.







RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY  
Established by Government of Central Provinces Education Department by Notification No. 513 dated the 17<sup>th</sup> of August, 1923 &  
Presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2016)

DEPARTMENT OF LIFELONG LEARNING AND EXTENSION

Gurunanak Bhavan, University Campus, Amravati Road, Nagpur - 440 033. Phone : 2530860  
E-mail : doll\_rtmnu@gmail.com

NAGPUR  
RECEIPT  
No. 1573 Date 20-8-18

To,  
The Principal  
Hislop College,  
Nagpur.

No. DOLLE/ 72/18  
Dated : 13.7. 2018

**Subject :** Sanction for Conducting Short Term Courses under  
Jeevan Shikshan Abhiyan on No Grant Basis.

Sir/Madam,

With reference to your proposal for conducting Short Term courses indicated below under Jeevan Shikshan Abhiyan of this Department. I am to inform you that your proposal has been accepted by the Department and your College has been granted permission to conduct the course on the following conditions:

**Details of the Course**

| Sr. No. | Name of the Course                              | Duration | No. of Candidates to be admitted | Fees to be Charged per Student | Fees to be Deposited With the Deptt. |
|---------|---|----------|----------------------------------|--------------------------------|--------------------------------------|
| 1       | Certificate Course in Allied Agriculture Skills | 4 Weeks  | 30                               | 1000/-                         | 10%                                  |

**Rules & Regulations of this Department regarding these courses should be strictly followed.**

1. This sanction is valid for this particular Batch only.
2. Fees for the course should be charged as per the norms prescribed.
3. Expenditure on the course should be incurred as per norms .
4. Course should be started within a Month from the date of sanction.  
Please communicate your acceptance within a month and submit Initial Report Along with list of students admitted.

*Dr. M. Bhowal*  
*20.8.18*

Your's faithfully,

*[Signature]*  
Director



DEPARTMENT OF BOTANY, HISLOP COLLEGE

RTMNU Board of Lifelong Learning & Extension certified course in

Allied Agricultural Skills-2018-19

| S.NO | LIST OF STUDENTS        | PAPER |
|------|-------------------------|-------|
| 1    | Pooja Gadhave           | A     |
| 2    | Aniket Dahake           | A     |
| 3    | Dhananjay Agutale       | A     |
| 4    | Sushilani Chakma        | A     |
| 5    | Virginia Toppo          | A     |
| 6    | Mayuri Khambalkar       | A     |
| 7    | Sonali Raut             | A     |
| 8    | Sanskruiti Raj          | A     |
| 9    | Ashwini Chaudhari       | A     |
| 10   | Shreyash Upasani        | A     |
| 11   | Sarabjeet singh Kashyap | A     |
| 12   | Aman Sangole            | A     |
| 13   | Julie Sayam             | A     |
| 14   | Vaishali Chatap         | A     |
| 15   | Vaishnavi Harne         | A     |
| 16   | Yogita Ahuja            | A     |
| 17   | Mohd. Kaif Pathan       | A     |
| 18   | Apoorva Nayak           | A     |
| 19   | Khushbu Singh           | A     |
| 20   | Jasleen Bhatia          | A     |
| 21   | Payal Jain              | A     |
| 22   | Snehal Bobade           | A     |
| 23   | Dhiraj Buradkar         | A     |
| 24   | Harsha Nandurkar        | A     |
| 25   | Divyani Shanware        | A     |
| 26   | Manisha Pande           | A     |
| 27   | Vandana Gautam          | A     |
| 28   | Harshna Thakur          | A     |
| 29   | Anjali Motiyani         | A     |
| 30   | Pragati Shamkuwar       | A     |

*NB*  
Course Coordinator

HEAD  
DEPARTMENT OF BOTANY  
HISLOP COLLEGE, NAGPUR



**RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY**  
Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1<sup>st</sup> of August, 1923 &  
presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017)

**DEPARTMENT OF LIFELONG LEARNING AND EXTENSION**

Gurunanak Bhavan, University Campus, Amravati Road, Nagpur - 440 033. Phone : 2530860  
E-mail : doll\_rtmnu@gmail.com

To,  
The Principal  
Hislop College  
Deptt. of Commerce,  
Civil Lines, Nagpur.

No.DOLLE/262/19  
Dated : 26.02. 2019

**Subject : Sanction for Conducting Short Term Courses under  
Jeevan Shikshan Abhiyan on No Grant Basis.**

Sir/Madam,

With reference to your proposal for conducting Short Term courses indicated below under Jeevan Shikshan Abhiyan of this Department, I am to inform you that your proposal has been accepted by the Department and your College has been granted permission to conduct the course on the following conditions:

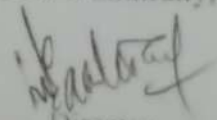
**Details of the Course**

| Sr. No. | Name of the Course                         | Duration | No. of Candidates to be admitted | Fees to be Charged per Student | Fees to be Deposited With the Deptt. |
|---------|--|----------|----------------------------------|--------------------------------|--------------------------------------|
| 1       | Certificate Course in Research Methodology | 3 Weeks  | 30                               | 1000/-                         | 10%                                  |

Rules & Regulations of this Department regarding these courses should be strictly followed.

1. **This sanction is valid for this particular Batch only.**
2. Fees for the course should be charged as per the norms prescribed.
3. Expenditure on the course should be incurred as per norms.
4. Course should be started within a Month from the date of sanction.  
Please communicate your acceptance within a month and submit Initial Report Along with list of students admitted.

Your's faithfully,

  
Director



# Certificate course in Research Methodology

## Objectives

- To facilitate the participants to express research problems and develop a suitable methodology.
- To enable the participants to understand the need for statistical tools in research.
- To impart data analytical capabilities to research aspirants.
- To provide training for regarding a sound research proposal.
- To train participants for data interpretation analysis and writing the final report.

## Course Details

- Overview of Research and its methodologies
- Defining Research Problem.
- Review of literature
- Sampling Methods and Techniques, respondent selection, questionnaire framing and reliability
- Explore Types of analysis
- Understanding the need and application of statistical tools in research
- Hypothesis Testing
- Data analysis and presentation of data
- Writing and Managing research
- Data analysis in Ms Excel

Target Group: **Post Graduate Students and Research Scholars**

Duration of the Course: **3 weeks**

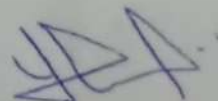
Medium of Instruction: **English**

Number of Candidates to be admitted: **At least 30**

Fees to be charged per student: **Rs. 1000 /- (Rs. One thousand only)**

## Teaching & Training Method:

- E-Lectures on selected topics.
- Sample project.
- One day workshop on 'How to write Research project'.
- Case study
- MCQ Pattern Exam.



**Dr. Hariom Puniyani**  
Head  
Faculty of Commerce  
Hislop College, Nagpur.

**TIME TABLE FOR  
CERTIFICATE COURSE IN RESEARCH METHODOLOGY**

| <b>Day</b> | <b>DATE</b> | <b>PERIOD NO.1</b>  | <b>PERIOD NO.2</b>  |
|------------|-------------|---------------------|---------------------|
| 1          | 27/01/2020  | Dr. Hariom Puniyani | Dr. Harinder Kour   |
| 2          | 28/02/2019  | Dr. Razeka Khan     | Dr. Dini Menon      |
| 3          | 01/03/2019  | Dr. Harinder Kour   | Dr. Razeka Khan     |
| 4          | 02/03/2019  | Dr. Harinder Kour   | Dr. Razeka Khan     |
| 5          | 05/03/2019  | Dr. Dini Menon      | Dr. Hariom Puniyani |
| 6          | 06/03/2019  | Dr. Dini Menon      | Dr. Hariom Puniyani |
| 7          | 07/03/2019  | Dr. Dini Menon      | Dr. Hariom Puniyani |
| 8          | 08/03/2019  | Dr. Razeka Khan     | Dr. Dini Menon      |
| 9          | 09/03/2019  | Dr. Razeka Khan     | Dr. Harinder Kour   |
| 10         | 11/03/2019  | Dr. Hariom Puniyani | Dr. Razeka Khan     |
| 11         | 12/03/2019  | Dr. Hariom Puniyani | Dr. Harinder Kour   |
| 12         | 14/03/2019  | Dr. Dini Menon      | Dr. Harinder Kour   |
| 13         | 15/03/2019  | Dr. Harinder Kour   | Dr. Razeka Khan     |
| 14         | 16/03/2019  | Dr. Hariom Puniyani | Dr. Hariom Puniyani |
| 15         | 18/03/2019  | Dr. Hariom Puniyani | Dr. Harinder Kour   |
| 16         | 19/03/2019  | Dr. Hariom Puniyani | Dr. Dini Menon      |
| 17         | 20/03/2019  | Dr. Harinder Kour   | Dr. Dini Menon      |
| 18         | 22/03/2019  | Dr. Razeka Khan     | Dr. Dini Menon      |
| 19         | 23/03/2019  | Dr. Harinder Kour   | Dr. Razeka Khan     |
| 20         | 25/03/2019  | Dr. Dini Menon      | Dr. Razeka Khan     |







**Hislop College**  
**Research Methodology Short Term Course**  
**RTMNU, Deptt. of Life Long Learning and Extension**

( 26/3/19 )

| No. | Name of the Student   | 20/3/19    | 22/3/19    | 23/3/19    | 25/3/19    | Assignm    | Test       |
|-----|-----------------------|------------|------------|------------|------------|------------|------------|
| 1   | Shrutal Jain          | Shrutal    | Shrutal    | Shrutal    | Shrutal    | Shrutal    | Shrutal    |
| 2   | Rusha Kishu           | Rusha      | Rusha      | Rusha      | Rusha      | Rusha      | Rusha      |
| 3   | Abhas Dage            | Abhas      | Abhas      | Abhas      | Abhas      | Abhas      | Abhas      |
| 4   | Salitpa Jain          | Salitpa    | Salitpa    | Salitpa    | Salitpa    | Salitpa    | Salitpa    |
| 5   | PUNIT JOSHI           | P.T. Joshi | P.T. Joshi | P.T. Joshi | P.T. Joshi | P.T. Joshi | P.T. Joshi |
| 6   | Dnyes Manliar         | Dnyes      | Dnyes      | Dnyes      | Dnyes      | Dnyes      | Dnyes      |
| 7   | Sheikushna N. Shauma  | kishna     | kishna     | kishna     | kishna     | kishna     | kishna     |
| 8   | Soneha Reddy          | Reddy      | Reddy      | Reddy      | Reddy      | Reddy      | Reddy      |
| 9   | Shoeb MUJIB SHEIKH    | Shoeb      | Shoeb      | Shoeb      | Shoeb      | Shoeb      | Shoeb      |
| 10  | Shagufta Mohd. Ansari | Shagufta   | Shagufta   | Shagufta   | Shagufta   | Shagufta   | Shagufta   |
| 11  | Ashiti Zutshi         | Ashiti     | Ashiti     | Ashiti     | Ashiti     | Ashiti     | Ashiti     |
| 12  | Angel Chhela          | Angel      | Angel      | Angel      | Angel      | Angel      | Angel      |
| 13  | LOKESH H. AMESAR      | Lokesh     | Lokesh     | Lokesh     | Lokesh     | Lokesh     | Lokesh     |
| 14  | Tuba Malik            | Malik      | Malik      | Malik      | Malik      | Malik      | Malik      |
| 15  | Saurabh Gupta         | Saurabh    | Saurabh    | Saurabh    | Saurabh    | Saurabh    | Saurabh    |
| 16  | Sonal J. Mahajan      | Mahajan    | Mahajan    | Mahajan    | Mahajan    | Mahajan    | Mahajan    |
| 17  | Kuldeep Singh         | Kuldeep    | Kuldeep    | Kuldeep    | Kuldeep    | Kuldeep    | Kuldeep    |
| 18  | Vinay Wankar          | Vinay      | Vinay      | Vinay      | Vinay      | Vinay      | Vinay      |
| 19  | Samin Sayyad          | Samin      | Samin      | Samin      | Samin      | Samin      | Samin      |
| 20  | Supriya Singh         | Supriya    | Supriya    | Supriya    | Supriya    | Supriya    | Supriya    |
| 21  | Tsupti Samru          | T.S        | T.S        | T.S        | T.S        | T.S        | T.S        |











To,  
The Principal,  
Hislop College,  
Nagpur.

R / Madam,

We request you to kindly grant us permission for to start new batch for Certificate Course in "NETWORKING, COMPUTER HARDWARE AND MAINTANENCE" under Jeevan Shikshan Abhiyan of RTM Nagpur University from 06 Aug 2018 to 15 Sept 2018 in computer science laboratory from 2:30 pm to 4:30 pm.

Thanking you,

Yours faithfully,

*M Baheti*

Dr. Mamta Baheti

H.O.D. Computer Science Dept.

*Granted permission*

*Deccanish*  
1.8.18





RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY  
Established by Government of Madhya Pradesh Education Department on 15th October, 1953 &  
University & State Education Government of Madhya Pradesh Public Universities Act, 2014 (UPEU) Act No. 01 of 2014

**DEPARTMENT OF LIFELONG LEARNING AND EXTENSION**

Gurunanak Bhavan, University Campus, Amravati Road, Nagpur - 440 033. Phone : 2530860  
E-mail : doll\_rtmnu@gmail.com

To,  
The Principal  
Hislop College,  
Nagpur.

No.DOLLE/ 98/18  
Dated : 26.7.2018

**Subject : Sanction for Conducting Short Term Courses under  
Jeevan Shikshan Abhiyan on No Grant Basis.**

Sir/Madam,

With reference to your proposal for conducting Short Term courses indicated below under Jeevan Shikshan Abhiyan of this Department. I am to inform you that your proposal has been accepted by the Department and your College has been granted permission to conduct the course on the following conditions:

**Details of the Course**

| Sr. No. | Name of the Course  | Duration | No. of Candidates to be admitted | Fees to be Charged per Student | Fees to be Deposited With the Deptt. |
|---------|---|----------|----------------------------------|--------------------------------|--------------------------------------|
| 1       | Certificate Course in Networking, Computer Hardware and Maintenance | 60 hrs   | 40                               | 1000/-                         | 10%                                  |

**Rules & Regulations of this Department regarding these courses should be strictly followed.**

1. This sanction is valid for this particular Batch only.
2. Fees for the course should be charged as per the norms prescribed.
3. Expenditure on the course should be incurred as per norms .
4. Course should be started within a Month from the date of sanction.  
Please communicate your acceptance within a month and submit Initial Report Along with list of students admitted.

Your's faithfully,

Director

**DEPARTMENT OF COMPUTER SCIENCE, HISLOP COLLEGE NAGPUR**

| Event: Certificate Course in "NETWORKING, COMPUTER HARDWARE AND MAINTANENCE" |                        |                      |             |                               |
|--|------------------------|----------------------|-------------|-------------------------------|
| Venue: Computer Science Laboratory   |                        |                      |             |                               |
| Objective: Install, Upgrade and maintain the computer systems.               |                        |                      |             |                               |
| Sr. No   | Name of Participant    | Class/ Department    | Contact     | Email-id                      |
| 1  | Pankaj Thakur          | BSc IV sem / C.S     | 7972705611  | pankajthakur7996@gmail.com    |
| 2  | Surjit Adbe            | B.Sc III sem / C.S   | 9503834693  | adbe.surjit.50@gmail.com      |
| 3  | Shreyas Lambe          | BSC V / C.S          | 8792479672  | lambe.shreyas@gmail.com       |
| 4  | Darpan Ranpariya       | BSC V sem / C.S      | 8888629003  | ranpariyadarpan28@gmail.com   |
| 5  | Burhanuddin Q. Pawade  | BSC III Sem / C.S    | 8605378943  | loqprusswala98@gmail.com      |
| 6  | Aditya R. Shukla       | BSC IV sem / C.S     | 9960147475  | adityashukla06@gmail.com      |
| 7  | Swaranand V. Deshpande | B.Sc. III sem / C.S  | 7083253089  | Swaranandpaypal@gmail.com     |
| 8  | Himanshu Helonde       | B.Sc V sem / C.S     | 7304652798  | himanshuhelonde099@gmail.com  |
| 9  | Srishti Frodiya        | B.Sc V Sem / C.S     | 8806689977  | ksrishti8237@gmail.com        |
| 10   | Maryann Gomes          | BSc V sem / C.S      | 9561427496  | maryangomes.98@gmail.com      |
| 11   | LUMINE THAKUR          | BSC IV sem / C.S     | 8605906775  | luminiithakur4247@gmail.com   |
| 12   | Minal S. Khobragade    | BSC III sem / C.S    | 91552478122 | minalkhobragade99@gmail.com   |
| 13   | Ragini M. Borikar      | BSC III sem / C.S    | 9764234339  | ragi.borikar999@gmail.com     |
| 14   | ROSHANI S. SHARNAGAT   | B.Sc III Sem / C.S   | 9763363860  | roshanissharnagat45@gmail.com |
| 15   | Neha L. Moharkar       | B.Sc III sem / C.S   | 9657902311  | neharmoharkar998@gmail.com    |
| 16   | Fatema S. Hussain      | B.Sc III sem / C.S   | 8983969648  | shfatema53@gmail.com          |
| 17   | AURELIA MINJ           | MCM sem I (CMC Dept) | 9860647693  | ameliaaur17@gmail.com         |
| 18   | Anjali Minj            | MCM sem I (CMC Dept) | 8552990640  | anjali7772kon@gmail.com       |
| 19   | Ruchita S. Jitikan     | B.Sc IV sem / C.S    | 8446844281  | jitikanruchita@gmail.com      |
| 20   | Jayshree S. Redhod     | B.Sc Sem V / C.S     | 9045221168  | Jayur1658@gmail.com           |



**DEPARTMENT OF COMPUTER SCIENCE, HISLOP COLLEGE, NAGPUR**

Event: Certificate Course in "NETWORKING, COMPUTER HARDWARE AND MAINTANENCE"

Venue: Computer Science Laboratory

Objective: Install, Upgrade and maintain the computer systems.

| Sr. No | Name of Participant      | Class/ Department                 | Contact    | Email-Id                      |
|--------|--------------------------|-----------------------------------|------------|-------------------------------|
| 21     | Aniket R. Shyamdeo       | B.Sc III <sup>rd</sup> yr / c/s   | 9168286223 | Shyamdeo65@gmail.com          |
| 22     | Sebastian R. Joseph      | B.A II <sup>nd</sup> yr           | 8600321782 | Robinjoseph882@gmail.com      |
| 23     | Shivani G Mesawant       | B.Sc III <sup>rd</sup> yr / CIS   | 8446313887 | Shivanimesawant1999@gmail.com |
| 24     | Bhauika M. Sadawasti     | B.Sc III <sup>rd</sup> yr / c/s   | 8806606642 | bhauikasadowasti28@gmail.com  |
| 25     | PRASAD D. WANKHARDE      | BSC II <sup>nd</sup> yr / c/s     | 7387487485 | tilakwankhede233@gmail.com    |
| 26     | Achal N Goele            | BSC III <sup>rd</sup> year / c/s  | 9130869714 | achalgoele99@gmail.com        |
| 27     | R. Veenas.Rao            | B.Sc III <sup>rd</sup> year / c/s | 9561788670 | veenarao1998@gmail.com        |
| 28     | Sanjana R. Gadwal        | B.Sc IV <sup>th</sup> sem / c/s   | 8120910190 | Sanjana.gadwal038@gmail.com   |
| 29     | Priyanka P. Dubugkar     | B.Sc III <sup>rd</sup> year / c/s | 8149502970 | priyankadubugkar88@gmail.com  |
| 30     | Ganankuti K. Gupta       | B.Sc III year / c.s.              | 9545410554 | guptabittu303@gmail.com       |
| 31     | Burhanuddin J. Presswala | B.Sc II yr / c.s                  | 8237867186 | bipresswala@gmail.com         |
| 32     | Anjali C. Upase          | BSC II yr / c.S                   | 9011288744 | anjaliupase15@gmail.com       |
| 33     | Sonam C. dhunde          | BSC II yr / c.s                   | 9284365705 | sonamdhunde@gmail.com         |
| 34     | Samiksha A. Jambulkar    | B.Sc II yr / c.s                  | 9011099873 | samiksha.jambulkar1@gmail.com |
| 35     | Padmini R. Pathade       | B.Sc II yr / c.s.                 | 7350423672 | Pathade982382@gmail.com       |
| 36     | Madhusai Rai             | BCCA III yr / PMC                 | 9179065259 | madhusaisai78@gmail.com       |
| 37     | Poojal R. Yadav          | B.Sc. 2 <sup>nd</sup> / c.s       | 9172712558 | poojalyadav1404@gmail.com     |
| 38     | Atib Sheikh              | BCCA III yr (CMC)                 | 774508303  | atibsheikh3@yaim.gmail.com    |
| 39     | Lucky Nitnaware          | BSC I <sup>st</sup> (SCSM)        | 773399371  | luckynitnaware9@gmail.com     |
| 40     | Megha Mishra             | BSC - III yr (PCSM)               | 7517797729 | mishramegha@gmail.com         |

















(Details in separate file)

## Certificate course in "NETWORKING, COMPUTER HARDWARE AND MAINTANENCE"


**Date :-** 06-Aug-2018 to 29-Sep-2018


**Venue:-** Seminar Room(Inauguration) and Computer Science Laboratory(Regular Conduction) Hislop College

**Report:-**

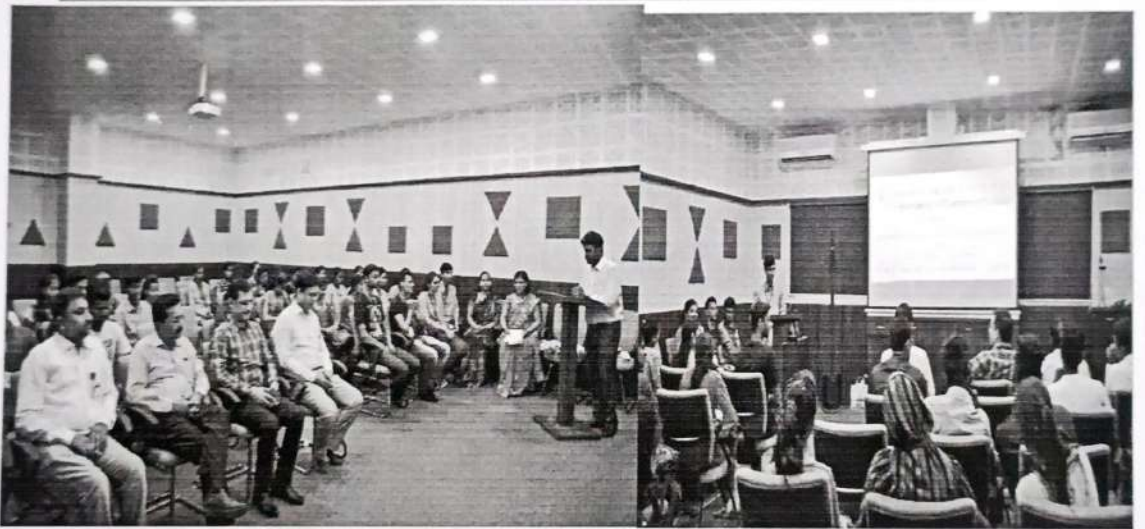
Certificate course in "NETWORKING, COMPUTER HARDWARE AND MAINTANENCE" was organized by Department of Computer Science, Hislop College, under the guidance of Dr. Mrs. Mamta Baheti (Head of Department, Computer Science) was inaugurated in the presence of chief guests Dr. Raymond Andrew Vice Principal, Dr. Prantik Banerjee Vice Principal, Dr. Rishi Agrawal Convener, Science Society and Dr. Dhanraj Mane. The students were motivated by the words of dynamic dignitaries present. Eligibility of the course was HSC and above. The course included the study of Hardware devices, assembling and disassembling of computer system, their repairing and their installation. Networking part covered installation up gradation and many more. It's a trend of the department to make aware, students about the upcoming and latest technologies. Huge count of students from various faculties registered for the course. Students were provided by tools which are essentials in practical by Computer Science Department. Students got exhaustive hands on knowledge and live demonstrations. The course is recognized by JEEVAN SHIKSHA ABHIYAN of R. T. M. NAGPUR UNIVERSITY run by Department of Lifelong Learning and Extension. In the 60 hours designed course, resource persons Mr. Ashish Shah and Dr. Mrs. Mamta Baheti trained the students by giving hands on session on how the computer works, hardware installation, how to install hardware devices, to install applications, upgrade and maintain the computer systems, interpret the errors /faults of computer systems, and understand networking technology. Each student was equipped with tools. Principal Dr. Ms. Dipti Christian encouraged the students by awarding certificates that were provided from Department of Lifelong Learning and Extension RTMNU as completion of course. This will help the students to increase their job profile.

Total Participants:40

  
Head of the Department  
Computer Science  
Hislop College Nagpur

  
22/2/2020  
OFFICIATING PRINCIPAL  
HISLOP COLLEGE  
NAGPUR





*Atul  
02/11/2020*

**OFFICIATING PRINCIPAL  
HISLOP COLLEGE  
NAGPUR**

*MS*

**Head of the Department  
Computer Science  
Hislop College Nagpur**





*MS*  
11/10/18

Head of the Department  
Computer Science  
Hislop College Nagpur

*MS*  
11/10/20

OFFICIATING PRINCIPAL  
HISLOP COLLEGE  
NAGPUR







## Hislop College-Course on Data Science with R -Report

The Department of Statistics, Hislop College signed MoU with A. I. Analytics, Pune, Ed-tech Organization for Data Science and Artificial intelligence on 12<sup>th</sup> January 2019. This MoU lead to conduction of a three-week training course on “Data Science with R” for the Final year students of Statistics from 14<sup>th</sup> January 16<sup>th</sup> February 2019. The objective of the course was to spread awareness about recent trend in Data Science and Machine Learning. The Course had an employment-oriented approach and was based on a detailed research of companies’ requirements. The course aimed at training the students for job profile of Data Analyst / Scientist or Business Analyst. Students were trained for using Advanced Excel & Tableau – Data visualization, Data Science with R. A.I. Analytics arranged good resource persons from various companies for this course.



Dr. Dipti Christian, Principal, Hislop College, Dr. Jyoti Shiwalkar, Head, Department of Statistics, Hislop College and Mr. Jayant Deo, Director, Marketing, A. I. Analytics.

**Course Outcome:** Students were motivated for choosing career of Data Scientist, Data Analytics

## Annexure - A

### Program details and Syllabus

| Data Science with R |                                     |
|---------------------|-------------------------------------|
|                     | Introduction to R                   |
|                     | Introduction and exploring raw data |
|                     | Tidying data                        |
|                     | Preparing data for analysis         |
|                     | Introduction to dplyr and tbls      |
|                     | Select and mutate                   |
|                     | Filter and arrange                  |
|                     | Summarize and the pipe operator     |
|                     | Group by and working with databases |
|                     | Mutating joins                      |
|                     | Filtering joins and set operations  |
|                     | Assembling data                     |
|                     | Advanced joining                    |
|                     | Exploring Categorical Data          |
|                     | Exploring Numerical Data            |
|                     | Numerical Summaries                 |

| Data Visualization - Tableau |  |
|------------------------------|--|
|                              | Introducing Tableau 10.0                     |
|                              | Establishing Connection                      |
|                              | Joins and Union                              |
|                              | Data Blending                                |
|                              | Visual Analytics                             |
|                              | Highlighting                                 |
|                              | Introduction to basic graphs                 |
|                              | Sorting Filtering Grouping                   |
|                              | Graphic Visualization                        |
|                              | Trend Lines Reference Lines                  |
|                              | Parameters                                   |
|                              | Creating a Dashboard Layout                  |
|                              | Designing Dashboard for Devices              |
|                              | Dashboard Interaction - Using Action         |
|                              | Introduction to Maps                         |
|                              | Editing Unrecognized Locations               |
|                              | Custom Geocoding                             |
|                              | Polygon Maps                                 |
|                              | Web Mapping Services                         |
|                              | Background Images                            |
|                              | Different Functions                          |
|                              | Introduction to Table Calculation            |
|                              | Fixed LOD , Included LOD, Excluded LOD       |
|                              | Box and Whisker's Plots                      |
|                              | Gantt Waterfall Pareto Control Funnel Charts |





# A.I. ANALYTICS

## BIG DATA | DATA SCIENCE

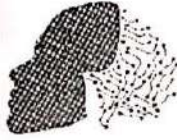
TRAINING COURSE ON DATA SCIENCE WITH R  
 For B. Sc. Final Year Students of Statistics of Hislop College  
 Venue: Statistics Laboratory, Department of Statistics, Hislop College, Nagpur  
 Date: 14<sup>th</sup> January 2019 (Three-week course)  
 Time: 2PM to 4 PM on Monday, Tuesday, Friday and Saturday  
 10:00 AM to 1:00 PM on Sunday

List of Participants (Daily Attendance sheet)

| S. No. | Name of Student          | 14.01.2019<br>2PM-4PM | 18.01.2019<br>2PM-4PM | 19.01.2019<br>2PM-4PM | 20.01.2019<br>12PM-2PM |
|--------|--------------------------|-----------------------|-----------------------|-----------------------|------------------------|
| 1      | Ms. Dorin Joseph         | Joseph                | Joseph                | Joseph                | Joseph                 |
| 2      | Ms. Sanjana Saneja       | Sanjana               | Sanjana               | Sanjana               | Sanjana                |
| 3      | Ms. Ritika S. Gulati     | Ritika                | Ritika                | Ritika                |                        |
| 4      | Ms. Poonam P. Thakare    | Thakare               | Thakare               | Thakare               | Thakare                |
| 5      | Ms. Ketaki Yawalkar      | Yawalkar              | Yawalkar              | Yawalkar              | Yawalkar               |
| 6      | Ms. Supriya Sharma       | Supriya               | Supriya               | Supriya               | Supriya                |
| 7      | Ms. Renuka Jakate        | Jakate                | Jakate                | Jakate                | Jakate                 |
| 8      | Ms. Tanvi A. Bamrotwar   | Bamrotwar             | Bamrotwar             | Bamrotwar             | Bamrotwar              |
| 9      | Ms. Rohma Azeem          | Azeem                 | Azeem                 | Azeem                 | Azeem                  |
| 10     | Ms. Nikita Sawarkar      | Sawarkar              | Sawarkar              | Sawarkar              | Sawarkar               |
| 11     | Ms. Yashashri Pophali    | Pophali               | Pophali               | Pophali               | Pophali                |
| 12     | Ms. Sana Diwan           | Diwan                 | Diwan                 | Diwan                 | Diwan                  |
| 13     | Ms. Manisha Katre        | Katre                 | Katre                 | Katre                 | Katre                  |
| 14     | Ms. Farheen S. Shaikh    | Shaikh                | Shaikh                | Shaikh                | Shaikh                 |
| 15     | Ms. Apekha H. Jambhulkar | Jambhulkar            | Jambhulkar            | Jambhulkar            | Jambhulkar             |
| 16     | Ms. Ruchita M. Telang    | Telang                | Telang                | Telang                | Telang                 |
| 17     | Ms. Mrunal D. Kawadkar   | Kawadkar              | Kawadkar              | Kawadkar              | Kawadkar               |
| 18     | Ms. Maryann Gomes        | Gomes                 | Gomes                 |                       | Gomes                  |

*Shiwalkar*  
 Dr. Jyoti Shiwalkar  
 Head, Department of Statistics  
 Hislop College

*Prustant Niche*  
 Course Faculty  
 AI Analytics, Pune  
*Chavda*



# A.I. ANALYTICS

## BIG DATA | DATA SCIENCE

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 Date: 14<sup>th</sup> January 2019 (Three-week course)  
 Time: 2PM to 4 PM on Monday, Tuesday, Friday and Saturday  
 10:00 AM to 1:00 PM on Sunday

List of Participants (Daily Attendance sheet)

| S. No. | Name of Student          | 21.01..2019<br>2pm-4pm | 22.01.2019<br>2PM-4PM | 23.01.2019<br>2hrs | 24.01.2019<br>2hrs |
|--------|--------------------------|------------------------|-----------------------|--------------------|--------------------|
| 1      | Ms. Dorin Joseph         | Joseph                 | Joseph                |                    | Joseph             |
| 2      | Ms. Sanjana Saneja       | Sanjana                | Sanjana               |                    | Sanjana            |
| 3      | Ms. Ritika S. Gulati     |                        |                       |                    |                    |
| 4      | Ms. Poonam P. Thakare    |                        | Thakare               |                    |                    |
| 5      | Ms. Ketaki Yawalkar      | Yawalkar               | Yawalkar              |                    |                    |
| 6      | Ms. Supriya Sharma       | Supriya                | Supriya               |                    | Supriya            |
| 7      | Ms. Renuka Jakate        | Jakate                 | Jakate                | Jakate             | Jakate             |
| 8      | Ms. Tanvi A. Bamrotwar   | Bamrotwar              | Bamrotwar             |                    | Bamrotwar          |
| 9      | Ms. Rohma Azeem          | Azeem                  | Azeem                 |                    | Azeem              |
| 10     | Ms. Nikita Sawarkar      | Sawarkar               | Sawarkar              |                    | Sawarkar           |
| 11     | Ms. Yashashri Pophali    | Pophali                | Pophali               | Pophali            | Pophali            |
| 12     | Ms. Sana Diwan           | Diwan                  | Diwan                 |                    | Diwan              |
| 13     | Ms. Manisha Katre        | Katre                  | Katre                 | Katre              | Katre              |
| 14     | Ms. Farheen S. Shaikh    | Shaikh                 | Shaikh                |                    | Shaikh             |
| 15     | Ms. Apekha H. Jambhulkar | Jambhulkar             | Jambhulkar            |                    | Jambhulkar         |
| 16     | Ms. Ruchita M. Telang    |                        | Telang                | Telang             | Telang             |
| 17     | Ms. Mrunal D. Kawadkar   | Kawadkar               | Kawadkar              | Kawadkar           | Kawadkar           |
| 18     | Ms. Maryann Gomes        | Gomes                  | Gomes                 |                    | Gomes              |

*Dr. Jyoti Shiwalkar*  
 Dr. Jyoti Shiwalkar  
 Head, Department of Statistics  
 Hislop College

*Prashant N. N. N.*  
 Prashant N. N. N.  
 Course Faculty  
 AI Analytics, Pune





# A.I. ANALYTICS

## BIG DATA | DATA SCIENCE

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 Date: 14<sup>th</sup> January 2019 (Three-week course)  
 Time: 2PM to 4 PM on Monday, Tuesday, Friday and Saturday  
 10:00 AM to 1:00 PM on Sunday

List of Participants (Daily Attendance sheet)

| S. No. | Name of Student          | 03.02..2019<br>12:00 pm-3 pm | 04.02.2019<br>2 hrs | 05.02.2019<br>2 hrs |
|--------|--------------------------|------------------------------|---------------------|---------------------|
| 1      | Ms. Dorin Joseph         | Joseph                       | Joseph              | Joseph              |
| 2      | Ms. Sanjana Saneja       | Sanjana                      | Sanjana             | Sanjana             |
| 3      | Ms. Ritika S. Gulati     |                              |                     |                     |
| 4      | Ms. Poonam P. Thakare    | Thakare                      | Thakare             | Thakare             |
| 5      | Ms. Ketaki Yawalkar      |                              |                     |                     |
| 6      | Ms. Supriya Sharma       | Supriya                      | Supriya             | Supriya             |
| 7      | Ms. Renuka Jakate        | Jakate                       |                     | Jakate              |
| 8      | Ms. Tanvi A. Bamrotwar   | Tanvi                        | Tanvi               |                     |
| 9      | Ms. Rohma Azeem          | Azeem                        | Azeem               | Azeem               |
| 10     | Ms. Nikita Sawarkar      | Sawarkar                     | Sawarkar            | Sawarkar            |
| 11     | Ms. Yashashri Pophali    |                              | Yashashri           | Yashashri           |
| 12     | Ms. Sana Diwan           |                              | Sana                | Sana                |
| 13     | Ms. Manisha Katre        |                              | Katre               | Katre               |
| 14     | Ms. Farheen S. Shaikh    |                              | Farheen             | Farheen             |
| 15     | Ms. Apekha H. Jambhulkar | Jambhulkar                   | Jambhulkar          | Jambhulkar          |
| 16     | Ms. Ruchita M. Telang    |                              | Telang              | Telang              |
| 17     | Ms. Mrunal D. Kawadkar   | Kawadkar                     | Kawadkar            | Kawadkar            |
| 18     | Ms. Maryann Gomes        | Gomes                        | Gomes               | Gomes               |

*Shiwalkar*  
 Dr. Jyoti Shiwalkar  
 Head, Department of Statistics  
 Hislop College

*[Signature]*  
 Course Faculty  
 AI Analytics, Pune

*[Signature]*



Kadu conducted a session on financial awareness for Final Year students. Rajendra Jaiswal, Entrepreneur and a marathon runner from city, shared his success story with the students. A Zumba session also was conducted by Trainer Swati Dongre.

## Hislop College

THE Department of Statistics, Hislop College signed an MoU with A I Analytics, Pune, Ed-tech Organisation for Data Science and Artificial intelligence recently. This MoU leads to conduct of a three-week training course on 'Data Science with R' for the Final Year students of Statistics. The objective of the course is to spread awareness about recent trend in Data Science and Machine



Principal Dr Dipti Christian, HoD of Statistics Dr Jyoti Shiwalkar, exchanging MoU with Jayant Deo, Director, Marketing, A I Analytics.

Learning. Students are trained for using Advanced Excel & Tableau – Data visualization, Data Science with R. The students will be benefited with Internship on completion of the program and will be issued certificate acknowledged by CSI.

Colleges may send their news items also on  
**[colleges@thehitavada.com](mailto:colleges@thehitavada.com)**  
**[hitavada.sports@gmail.com](mailto:hitavada.sports@gmail.com)**