

# 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

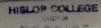
#### RASHTRASANT TUKDOJI MARAHAJ NAGPUR UNIVERSITY DEPARTMENT OF LIFELONG LEARNING AND EXTENSION PRAPOSAL FOR CONDUCTING SHORT TERM CERTIFICATE COURSE UNDER JEEVAN SHIKSHAN ABHIYAN

1.	Basis	e Information about ti	ie applicant College/D		
	(6) N	ame of the College/Dep	marament Block	emistry	
	(11)	Complete Postal Add College/Department	Degartme History Civil 2	ent of Biochemistry  Delege  ines, Nagfur	
	(till)	Phone Number	07/2-253	32004, 9823 115736	
	tivi	Name of the Principa	III iniconecito Theert		
		With the Full Postal	200.1	Dipti Christian. College. Temple food	1
	(v)	Phone Number /Mob	ile OF12-1	2532004	
2,	Data	ils of the Course Prop	osed:		
	(i)	Name of the Course	Certific	ate Course in Food Fre	sex
	b	Certificate Diploma Advance Diploma	-lin ai	ate Gure in Food Pre nd Quality Central"	
			Under	aduate & Postgraduate	Sta
	(ii)	Target Group	To	law (1 months)	-
	(iii)	Duration of the Cou	1se	pon - 3 copm	
	(iv)	Timings	£ -	irl	
	(v)	Medium of Instruct	· Ka	08.50	
	(vii)	No. of candidates to admitted Fees to be Charge p	n ,	000/-	
3.		ils of the Faculty for			
	(i)	Whether College /D Diploma Course rel Proposed course :-	repartment has any Deg ated to the	YES/NO	
	(ii)	Whether the course Experts from related		YES NO	
	(iii)	Information of Co	urse Co-ordinator (T	o be appointed for the course):	
100	Name	and Address	Qualification	Experience	
Dr.	Mash	ithe Pive	M.Sc. Ph.D	(Teaching)	
				(P.T.O.	

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

s.No.		me of the Ity Member	Qualification	Topics	Full Postal Address
1-	20. R.		M-Sc. Ph.D	Freservation & Regulation	alendur
Χ.	Du	Richar bey 5. Swka	M-sc.	Lab meth	oob - n -
2 · 4 ·			M-Scy Ph-D		1
. 1	Details of	f the Physical	Facility to be provide	led for the cou	rse :
	(i) Cli	ass Room		yes.	
	(ii) Lil	beary		Yes.	ology Lab equipmen
	(iii) Ec	luipments		Mucam	out of the
		y Other			
	(y) Ex	penditure :			Amount
r	Sr.No.		Particulars	1300 01 10	le 300/ Lecture (1 m)
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1	2	Materials			18 30001-
- 1	3	Contingencie	S		18 2000 / -
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Princ	cipal /Hei	id of the separ		& regulations	of the Department regarding th
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BANT HUKADOJI NAHARAJ NAGPUR UNIVERSITY

DEPARTMENT OF LIFELONG LEARNING AND EXTENSION

The Principal Histop 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	One Month	30	1000/-	10%

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

- This sanction is valid for this particular Batch only
- Fees for the course should be charged as per the norms prescribed.
- Expenditure on the course should be incurred as per norms.
- 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

## CURRICULUM FOR ONE MONTH CERTIFICATE COURSE

#### 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	Module4	Laboratory Methods Assessment	10Hours
5	Test/Evaluation		3Hours

#### RASHTRASANT TUKDOJI MAHARAJ NAGPUR UNIVERSITY DEPARTMENT OF LIFELONG LEARNING AND EXTENSION ER JEEVAN SHIKSHAN COURSES

	INITIA	L REPORT UND	ER JEEVAN SHINSDAN	a sity londo
4	Name of the Course		Food Precerva	tion and Quality Contro
2	Name of the College	e/Departments	separtment of	Biochemistry History Hoge 0 0712-2532004
1740	Organising		Ph.N	0 0712-2532004"
3.	Name and Address	of the	Dr. Mashitas 1	154 177
0.	Course Co-Ordinato	or	E-mail primasme	9823115736
4	Venue of the Cours	9	class Room : C	B-5, Histop College
14.	with full address		Nagpur .	
5	Date of Starting the	Course	30.08.20	8
6.	Timings of the Cour (Attach a copy of Ti	se	3:00 pim	to 4:00 pm.
7	Duration		1 hour fda	y (Tatal 30 hours)
8.	Medium of Instruction	on	English'	( ) to the state ()
9	No. of Students Adr	nitted	30 student	( List attacked)
	(Attach a List with N	lames)	W 15 24 40	
10.	Accomodation avail (Class Rooms) with keeping in view the Candidates to be ac The course.	furniture No.of	Yes . Class	7,60,10
11	Information of Facul	ty Member		mi N
S.No.	Name	Topics to be Tought	Full Postal Address	Phone No. if any
Plea	usee Ann	exure I		
		ating the course	Two vicite ( Ind	we made visit to sent fair
12	Any other matter rel		P1 1000 /-	and,
13.	Total Fees Charged	Per Siquent		969790993 · Nayfur
14.	Amount of Enrolme Fees to be deposite	nt d with the Deptt	drawn on Intian on Bank	10 NO 94479 dt. 29.00 2018
COLL	SIGNATURE & SEAL	OF THE		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 [
(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, Raisoni 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
0.500	25.8.18	2 hr	Dr. Rashmi Padhye	Physico-Chemical quality assessment
	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
1/22	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	Sundle.
2.	Pratik Akulwar	P.R.A.W
3.	Treta Wadibhasme	Trocta
4.	Shubham Yele	- Sander
5.	Mayuri Gajbhe	Mejble
6.	Misbah Samreen	Misbah.
7.	Tanushree Thawkar	a that cal
8.	Pauline Joseph	( Bepla
9.	Sumit Sahare Shahare	Tarso,
10.	Rakshit Wankhede	A Blankhede.
11.	Annu Bhattacharya	9
12.	Tanushree Bhange	Blange
13.	Samiksha Kumbhalkar	Sanjksha
14.	Afreen Shaikh	Alinkh
15.	Husban Khan	Aprem
16.	Shruti Thool	sphael.
17.	Sakshi Choudhari	Dardhier
18.	Deboshree Dutta	Tootto
19.	Mayuri Shende	Mashande
20.	Khushboo Sayyad	Charles
21.	Shraddha Wanve	The state of the s
22.	Danish Patel	anust
23.	Anuj Shahare	Thoham
24.	Shiba Shaikh	Lentil
25.	Neha Raut	South
26.	Tejaswini Kashyap	HE WILLIAM
27.	Sakshi Shinde	Thurs .
28.	Gurpreet Kaur	FAMILY
29.	Rahul Vishwakarma	000
30.	Shreya Gupta	Transport .
	Jane Ju Oupla	Shuge



HISLOP COLLEGE MINERAL PROPERTY. RECEIPT BILL CONSTRU

## ARTMENT OF LIFELONG LEARNING AND EXTENSION

Gurunanak Bhavan, University Campus, Amravati Boad, Nagpur - 440 033; Phone : 2530860 E-mail: doll rtmnu@gmail.com

The Principal Hislop College, Nagpur

No DOLLE TOTALS Dated 2.8 2018

Subject :

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

Sit 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:

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	Certificate Course in Food	One Month	30	1000/-	10%
2	Preservation and Quality Control				

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

- This sanction is valid for this particular Batch only.
- Fees for the course should be charged as per the norms prescribed. 2.
- Expenditure on the course should be incurred as per norms. 3.
- 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

Dr. M. Pige Woodshind

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

	Name of the Course	Bioinformatica
To a	Name of the College/Departments	Department of Blockenistry, History, Calley . Nagpire. PHNO 0712- 2532004
2	Organising	Ph No 0712 - 2532004
	Name and Address of the	Dr. Maelitha lise, Separtment of Bluchem
3	Course Co-Ordinator	Email primachia gnail.com
	CORSE SA ALTERNATION	Ph No 9823115736 .
	Venue of the Course	Skill Development Lab, His Log
4	with full address	College, Haypur
	With the constant	1
5	Date of Starting the Course	03.09.2018
5	Timings of the Course	30 hrs. (4 vopm - 3.00pm)
	(Attach a copy of Time-Table)	
fi.	Duration	30 ms
8	Medium of Instruction	English Hachell "
9	No. of Students Admitted	17 ( LOS ATTACKE)
***	(Attach a List with Names)	. 0 3
10	Accomodation available	Yes (Still development Room) with computer fascility.
	(Class Rooms) with furniture keeping in view the No.of	with computer fascility.
	Candidates to be admitted to	
	The course.	
11.	Information of Faculty Member	
	Name Topics to be	Full Postal Phone No.
S.No.	Tought	Address if any
2	Any other matter relating the course	
3.	Total Fees Charged Per Student	fe 1000/-
0.		Rs 17,00 /- (DD. No. A dt. 2007
4.	Amount of Enrolment	drawn on Indian oversone Bunk .
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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. Archna Sahay	Introduction to Bioinformatics: Applications of Bioinformatics
2.	04.09.18	2 hr	Dr. Archna Sahay	Application of bioinformatics in drug designing
. 3.	05.09.18	1 hr	Dr. Archna 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"

#### 03/09/16 TO 12/09/18

## LIST OF STUDENTS

Sr. No.	Name of the Students	Signature
1	Treta Wadibhasme	Trela
2.	Mayuri Gajbhe	
3	Misbah Samroen	May Ma.
4	Annu Bhattacharva	Mishah
5.	Sarmishtha Dasgupta	104
6.	Kajol Mukheries	of the state of th
7.	Aditi Pahania	Monday
8.	Oshin Francis	ANTONIA .
9.	Imran Ali	2
10	Jounita George	POWER NAME -
- 11	Mayuri Raipure	
12	Priyanka Dharwal	C-Mary Company
1,3	. Ankita Singh	
14	Palash Thakre	CO COMP
15	Matyuri Chahande	Jagui,
	Bhagyashree Paithunker	Equitator.
17	Unnati Shahu	Co. Co.

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.)

vent: Sr. No	WORKSHOP ON JMOL APPI Name of Student	Day1	Dav2	Day3	Day4	Day5	Day6	Day7	Day8	Day9	Day10
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8	Briganka J. Dahaswal	Patoning	Schound	Johannal	Abeliance	Charles	Schouse!	Astrus	B. James	Charas	Borney.
9	Swarna S. brudafwar	Sharana	Quarana	Quarana	Barana	Barana	Swarana	Gwanann	Charana	Querana	Sara
10	Poüya T. Jogi	(Blog)	Pagi	(Biogi.	Bacqi.	Alogi.	Pyogi .	(BHO91	(BHOG)	10409 .	Progi
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# 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 produce clones of a plant in a method known as micro-propagation. Plant has Tissue Culture become important alternative where any plant species can be cloned and a large number of genetically uniform diseasefree 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 p lant 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 culture requirements, tissue preparation of stock solution for culturing, media compositions, media preparations were explained. On the same day, the plant tissue culture medium which is artificial nutrient supplemented with organic inorganic nutrients carbon source and plant growth like uxin hormones and cytokinins, was prepared by the The students 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 MAHARA

TMENT OF LIFT ONE LEADNING AND EXTENSION

Gurunanak Bhavan, University Campus, Amravati Road, Nagpur - 440 033. Phone : 2530860

E-mail : doll\_rtmnu@gmail.com

To, The Principal

Nagpur.

Histop College,

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.

- 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.
- 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

Dr. R. B. Lewal

# 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	Α		
2	Aniket Dahake	Α		
3	Dhananjay Agutale	Α		
4	Sushilani Chakma	Α		
5	Virginia Toppo	А		
6	Mayuri Khambalkar	Α		
7	Sonali Raut	Α		
8	Sanskruti Raj	А		
9	Ashwini Chaudhari	Α		
10	Shreyash Upasani	A		
11	Sarabjeet singh Kashyap	A		
12	Aman Sangole	Α		
13	Julie Sayam	Α		
14	Vaishali Chatap	Α		
15	Vaishnavi Harne	Α		
16	Yogita Ahuja	Α		
17	Mohd. Kaif Pathan	Α		
18	Apoorva Nayak	Α		
19	Khushbu Singh	Α		
20	Jasleen Bhatia	A		
21	Payal Jain	Α		
22	Snehal Bobade	Α		
23	Dhiraj Buradkar	Α		
24	Harsha Nandurkar	A		
25	Divyani Shanware	A		
26	Manisha Pande	A		
27	Vandana Gautam	A		
28	Harshna Thakur	Α		
29	Anjali Motiyani	Α		
30	Pragati Shamkuwar	A		

Course Coording EPARTMENT OF BOTANY
HISLOP COLLEGE, NAGPUR





# RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

# 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.

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.
- Fees for the course should be charged as per the norms prescribed.
- Expenditure on the course should be incurred as per norms.
- 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,

No.DOLLE/262/19

Dated: 26.02, 2019

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.

JEA.

Dr. Hariom Puniyani Head Faculty of Commerce Histop College, Nagpur.

# TIME TABLE FOR CERTIFICATE COURSE IN RESEARCH METHODOLOGY

Day	DATE	PERIOD NO.1	PERIOD NO.2		
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		

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

	KTWING, Deptt. of Life	e Long Le	arning an	d Extensi	on				1.1.0
Sr. No.	Name of the Student		28/2/19	1/3/19	2/3/19	5/3/19	6/3/19	1 2 1 2	8/3/19
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Research Methodology Short Term Course

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**Hislop College** Research Methodology Short Term Course RTMNU, Deptt. of Life Long Learning and Extension ASSTAND 25 3 19 Name of the Student 23319 No. 20/3/19 Shutal Shutal Shutali Shutal. Shutal Town Shutal. Shutal Person Polar from Poken Kuthe ALKUL-RHOULE Ablas Alhas Dage Alesas Ashae ARDOS ARDON Jain . Augain. Rujain UNIT TOSL P.T. Joshi and Druye Mamber Shew Keushna. N. Shauma reushna Rodde onpha Shoeb MILITER Shelky Shaguely Shoguella Charleyta Mold. Ansarti Bertile Dutch Sutshi Fretzhi 11 Chheler' 12 AMesal Uma like Combie 14 Kmalik maly Umalik Laurabh Laurath faurably Laurale fauralet Jaurabh Golpty 15 Sourad mahaya prahaya mahan mahdia chahaian mali 16 macha sa hahair outolog bulglerpburdalep. culder & singh 17 bruk delap midle Samo Sayuad Samo Inmal 19 Samo Samo Summ Mount Singh 20 7.5

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

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No.	Name of the Student	27/2/19	28 2/13	1/3/19	23/19	5 3 19	6 3 19	7319	815 19
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27	Shivani . M. Bhalavi	Malari.	Salari	Malovi	Bladan	Skalari	Slalow	Splater!	Mela:
28	Julie R. Mohto	Julie	Julie	Julie	dalie	Julie	Jacic	- Julie	Julia
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Research Methodology Short Term Course

	RTMNU, Deptt. of Life	e Long Le	arning an	d Extens	ion		4		1010
Sr. No.	Name of the Student	9/3	11/3	12/3	14/3	15/3	16/3	10/3	19 11
22	Thaigh R Parekh	Rogrekh	Harekh	Thorekh	Rearch	Therekh	Harekh	Sparekh	Sparekh
23	Taliph V. Agrend	Agrand	Agreed	America	Agrand	Agrand	Again	otgans	A Same
24	Lavina V. Wadhwani	Lawher	Carria	Darkag.	Britio.	dauba-	Lauha	89 Airis	Torma
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27	Shivani M. Bhalavi	Shalavi	Beaby.	Sololari.	Moulan'	gladu	Shelar.	Shalan	119
28	Julie . R. Mahto	Juic	Jelie	Julie	Jule.	Julie	Julia.	Julie	Julie
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Research Methodology Short Term Course

	RTMNU, Deptt. of Life	e Long Le	arning an	d Extens	ion	(26/	349)
Sr. No.	Name of the Student	20/3/19	22/3/19	23/3/19	25/3/19	Asayn	Test.
22	Knjol R. Parekh	Harekh	Shearekh	Thogrekh	Shearekh	Thorrech	Koarekh
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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,

granted permissions

Recolling

Yours faithfully,

Dr. Mamta Baheti

H.O.D. Computer Science Dept.





#### RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY

#### DEPARTMENT OF LIFELONG LEARNING AND EXTENSION

Gurunanak Bhavan, University Campus, Arnraveti Road, Nagour 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.

- This sanction is valid for this particular Batch only.
- Fees for the course should be charged as per the norms prescribed.
- Expenditure on the course should be incurred as per norms.
- 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

Event:	Certificate Course in "NETWOR	RTMENT OF COMPUTER SCIENCE RKING OMPUTER HARDWARE A	CE, HISLOP COLLES NA	GPUR
Venue	Computer Science Laboratory	COMPUTER HARDWARE A	AND MAINTANENCE	
Object	tive: Install, Upgrade and maintain the o	omputer systems		
	No Name of Participant	Class/ Department	Contact	Email-id
V	Paukaj Thakur	BSC V sem/c.s	7972705611	Rank of thakus 2996 Da moil Com
2	Swrit Adhe:	Boc III sem /C.s	3503839693	adbe surit sa a genell com
3	Unreign lambe	BSC V/C.S	8793479672	lambe shayer @ amail
4	Darpan Kanpariy	5 BS( V sem 1 c.		ranpariyadarpanza Qarnais
15	Buchanuddin a Barwa	6 138c m Sen 1 C.s	8605338943	log pressucale 98@ quail an
6	Nortya RoShuhla	BSC V sem/C.S	0.00	
X	Swaning V. Deshpande	BSc. III sem / Cs	708325,3089	Swanandpaypal a gmail com
8	Himanshu Helonde	B.Sc I sem/18	7304652798	himanshuhelonde 099 @gmail-
9	Srishti Frodiya	BSc V Sem CS	8806689977	brishti 8237 @ grail. con
26	Maryann Gorres	BSc I Sem 1 CS	9561427496	maryangemes. 38 Egmail-com
N	LUMINE THARUR	BSC J Sem/cs	8605906775	luminithakur 4247 agmail (en
17	Minal . 5. Khohragade	Bac III sem / c's	91552478122	minalkhobragade 99@gmail-com
18	Ragini M. Bonkur	BSC III sem / c/s	9764234339	may limp @ 888 1 x kd . ippx
14	ROSHANT S. SHARMAGAT		9763363860	noshanishannagat 45 @ gmail - Com
5	Nela L. Moharkan	Bisc III sem/cs	9657902311	nehameharkar 1988 guail- lam
8	Fatema S Huseim	B.Sc II sem 1C.S.		Shfatema 53@gmail com.
	AURELIA MINJ	MCM bent (concoupt)	9860647693	amiliaaur 17@ grait com
	Anjali Mini	MCM seni (cmc)on	8552990640	anjali 777 akon agmail con
	- 1/2 0		8446844281	Jikitka stuchita agmaika
/:	T	B.SC Semy/Cis	9045221168	Jayur 1658 @ gmail. Com

Event:	DEPARTM Certificate Course in "NETWORKIN	OMPUTER HARDWARE ANI	MAINTANENCE P 6	
Venue:	Computer Science Laboratory			
Objective:	Install, Upgrade and maintain the comp	outer systems.		
Sr. No	Name of Participant	Class/ Department	Contact	Email-Id
21	Aniket R. Shyamden	B.Sc TTTdyr Cls	9168286223	Shyander 65@ grail. com
22	Schastian . R. Juseph	B.A ITTY	8600321782	Robinioseph 882 Quanciller
23	Etikani, G Mesamut	BSC FINGE US	8446313887	Sheinimeraunt 1999 @ apr
124	Bhavika M. Sadawasti	B.Sc Ind yth cls	8806606642	bhouikasadawardiz8@qmail
\25	PRASAT D. WANKUEDG	BSC INTYON US	7387487485	tilak workhede 233@ grait cor
26	Achad N Golle	BSC III Ed year C/s	9130869714	achalgosle 99 agmail com
21	R. Vienas, Raa	B. Sc III rd year c/s	9561788670	veenarao1998@gmall.com
28	Sanjana R. godewal	BISC I sem C/s	8120910190	Sanjana garhurd 038 @gmail Com
29	Biranka P. Durunkar	B.Sc Thed years 1 c.s	8149502970	prospankadulyakar 88 @ amail. lam
36	Sanskruti k. Grota	B. Sc II year / C.S.	9545410554	guptabittu 303@ gmail.com
31	Burhanuddin J. Resswale	Bisc Tyr /eis	8237867186	Si press wala @ gmail.com.
32	0 . 1.	BSCILYE / C.S	9011288744	anjali upase ( 15 gmail com
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34	bamikahar A. Jambulkas	BISCIEYE 10.5	9011099873	samiksha-jambhulkar 10gmcul.
35	Padmini R. Pathade	B.SC II 44/ C.S.	7350423672	Pathade 982382@gmail.com
36	Machuri Rai	BCCATTYNIEMC	91790692 69	madherinai 78 agnail com
31	Payal R. Yadaw	B.s.c. 2nd (c.)	82521FSF16	payalyadau1404@gmail.com
	Atib Sheikh	BCCA TT X (CMC)	7445 08303	atiphakh30 yaim gimules
	Lucky Nitnaware	BSC IN (SCSM)	7763 999671	lockynitnaware 9 @ gmail.com
		BSC-TTLyr (PCSM)	75/7797729	mishxamecha@gmail.com

DEPARTMENT OF COMPUTER SCIENCE, HISLOP COLLEGE NAGPUR Certificate Course in "NETWORKING, MPUTER HARDWARE AND MAINTANENCE" Event: Venue: Computer Science Laboratory Install, Upgrade and maintain the computer systems. Objective: Name of Participant Sr. No 6/8 Class/ Department Beohanuddin J.P. 1 B'SCITY CS 18ml 2 Burhanuddin Q.P. B an Som C.S. 3 Padmini. R. Pathade BON'N B.SC II year / C.S Bright BSc. III year / C.S. Brieta 4 Sanskruti Gupta 5 Sanjana Gadewal B. SCIII Year / C.S B. SCII year gc. Sh Burughan Burughan Burughan Burughan Burughan Burughan Burughan Priyanka Durugkar 6 Datama Sadam Bactano Badan Sadaman 7 Bharika Sadawasti B.Sc III year C.S Bodos Lucky Nitnamare B.S.C I year/cs # 8 Aujali Upase 9 BSC-II year/cs Sonam C. Dhunde BSC-II year/cs 10 Sonan bram 11 Yaday BSC-II year/cs 12 Faterna S. Husain III Dem/PCSM doto tatens. Lotus date date 13 Neha L. Moharkar III som/ PasM NM NA ND MA Hm 14 Saniksha A. Jambhulko BBC- II year/CS Stemble Stanth Stenth Juns 15 Roshani Sharnagat III sem / PCSM Phanget Thomas Phanga & Ragini Borkar 16 IISEM / PCSM BOILERS Kews Beret ! Boxev Minal Khobragade Boc. II sem /PC. SM Quinal 17 anice ainal ana aring alina 18 Prajat D. Wankhede BSC-III sen PC/50 Bull 38 Maryann Gomes

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BSC THYPIPCSM

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Megha Mishra

DEPARTM T OF COMPUTER SCIENCE, HISLOP COLLE NAGPUR

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Venue:	Computer Science Laboratory												
Objective:	Install, Upgrade and maintain the	computer systems.							_			_	
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38	Aniket Shamdes.	B. Sc III / CS	apur	Chy	CORN		4	A Con	2	ye	00	N. N. S.	-3
39	Madhuri Rai	BCCT X/cm	-			Coc	in to	ak co	ria C	7-0	2000	Rai	
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Event:	Certificate Course in "NETWO	PARTI NT OF CO	HAPDW	ADE AND	MAINE	AMENICIE	LIVAGI	UN				
enue:	Computer Science Laboratory	Maria, Comi o I En	HARDW	AKE AND	MAINIA	ANENCE"						
Objective:	Install, Upgrade and maintain the	computer systems		_								
Sr. No	Name of Participant	Class/ Department	21/2	24/2	2918	30 8	21/	101101	HARI	2 6	-	
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5	Sanjana Gademal	B.SC II Sen	D	2	8	0	0	0	9	Q		
6	Bayanka P Dungkot	B. Sc TI & Som		Druge	Burgha	Burnaka	Butuglin		BINITA	Dividen.		
7	Bhauika M. Sadawart	BSC III Yn	Sporas		Bada	Basi				Borbur		
8	Licky Sitnaware	BCS. I yorsey	Jacks		)	toke	tukh		toler.	15-Ab		
9	Anjali C. Upase	BSC. III sem	Myale	Dojali	Ayale		dryali	Die		Feli		
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12	Fateru S. Husain	BSc. III sem	the	of other		-film		fot	寺室	Hate		
13	Neha L. Moharkar	BSC. III sen	No			NA	Ma	HN	NW			
14	Samiksha A. Jambhylkyr	B.Sc III od sem	Steent			Sante	Sunday	,	Manly			
15	Rushni Sharnagat	B. Sc III'd Sem					Planes	Phaeny	Phave	Bungat		
16	Ragini M. BOHKW	B.SC III xq sem	POIKU	2	1		Bonece	Monudas	A SOUND	-		
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19	Maryann Jomes	·BSC Sen 3	8	200	BI	100		A	- you	Su		
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-	DE	PARTI NT OF CO	MPUTER	SCIENC	E, HISLO	P COLL	E NAG	PUR				
Event:	Certificate Course in "NETWO	RKING, COMPUTER	HARDW	ARE ANI	MAINT/	ANENCE"						
Venue:	Computer Science Laboratory					33.3.2.0.3.2.2.2.2			-			
Objective: Sr. No	install, Upgrade and maintain the	computer systems.										
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24	Darpan Ranpariya	BSC III SCS M	25	OF	DS.	25	25	20	25	PJ-		
25	Shreypa hamke	SSC ITI /PCISM	Brus	glereye	douge	Swegas	Shring	Surga	gh siryes	Champs		
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31	Actell N. Gosle	BSC III / PCSM		4	abse	Moele	10086					
32	Ruchita C. Siritica	BSCTT/PISM	Bisitko	HILLY	@ Rillia	of Wititk	> BishK	en ,	1			
33	Swanand V. Deshpand	BSCILL S CISA	1 21	19	8	13	Sil	4	14	84		
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## 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 epartment 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.

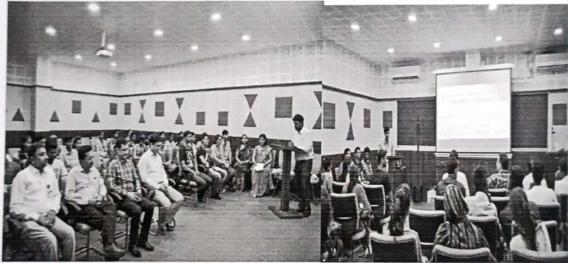
Principal Dr. Ms. Dipti Christian encouraged the students by awarding certificates that were provided from Department of Lifelong Learning and Extension RTMNU as completion of course. This will help the students to increase their job profile.

HISLOP COLLEGE

Total Participants:40

Head of the Department Computer Science Hislop College Nagpur







Computer Science
Hislop College Nagpor

OFFISIATING PRINCIPAL HISLOP COLLEGE NAGPUR



Head of the Department
Computer Science
Hislop College Nagpur

OFFICIATING PRINCIPAL WISLOP COLLEGE NAGPUR

# HISLOP COLLEGE Campus To Corporate ACADEMIC SESSION 2018-2019

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2	Pawan Singh Rajput (B.com IIIrd sem) 952757529254	Javo	Post!	200	Jan H	100		SO THE	No.	Cani	Bang,	127		30	Jagu	<b>X</b> 3/	(3)	Joeg	Hay C	Bus	8/1	300
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* 4	Susan Mendonca (FA VI sem) 9309543821/7767922272 susanmendonca7@gmail.com	Justo	Sendor			bearing !	N. S.	Made o	Seed of	and c	Academic Control	Bunde		Frankey	WE WAY		bach'e	Markey	Med	andr's	made.	
5	Tapassya Wasnik(13A VI sem) 9766799164 tapassyawasnik86 998@gmail.co m	100 P	A STATE OF THE PROPERTY OF THE	(Anita)	C. L.	1 day	S. S. S.		Tomas a		,	Total Total	, 6	37	S. C. L.	3	J. 2	18.7	18 M		7	of the second
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9	Ketaki Ikhankar 7387790122 ikhankark@gmail.com	OCOC.	1000	Sold Co	0000	oda,	000	seta	1000	(00)	6	NO.		186	Rush	K.60	600	186	000		CO.	200
10	Umesh Vanka 9422121680 vankaumesh321@gmail.com	Gray	aw	Good	Oral	Syl	Ond	One	Once	Chang	-	Charle		Quel	Ony	ou	+	(vo)	Ou	gred	an)	1

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#### 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

rogram details and Syll	Data Science with
	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

Di	ata 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 Further
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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: 14th 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 (Doily Attendance sheet)

S. No.	Name of Student	14.012019 2 pm-4 pm	18.01.2019 29m-4pm	19.01.2019 #P#-4fm	20.012019
1	Ms. Dorin Joseph	Beech	Bouch	Poseph.	Bough.
2	Ms. Sanjana Saneja	dungera.	showing	Hanjana	tuni ana
3	Ms. Ritika S. Gulati	0	(D)-	P	
4	Ms. Poonam P. Thakare	-[10](KS)(C <sup>4</sup> )	Thomas	- I kolav	- Wester
5	Ms. Ketaki Yawalkar	Lesour.	Marian.	Kanton	مواليد والمال
6	Ms. Supriya Sharma	Falsings	Colomba.	Tolinga.	Share
7	Ms. Renuka Jakate	No.	These .	Done	Makele
8	Ms. Tanvi A. Bamrotwar	James	Marie	Quis/	Aust
9	Ms. Rohma Azeem	See.	Mich	Ale.	XXIII
10-	Ms. Nikita Sawarkar	Minde	efficient	of secondari	Steel
11	Ms. Yashashri Pophali	verslade	Malali	verplati	ven hale
12	Ms. Sana Diwan	Share	Blang	Sere	Bure
13	Ms. Manisha Katre	akplite	rate /	delen	Holes.
14	Ms. Farbeen S. Shaikh	factures	bahah	Lithikh	Saluikh
15	Ms. Apekha H. Jambhulkar	Andreal and			donibadie
16	Ms. Ruchita M. Telang	- Salons	Stabea	Siden.	Palana
17	Ms. Mrunal D. Kawadkar	Meunder	Mandes	Managh	Meanually
18	Ms. Maryano Gomes	nouse	wagan		Varia

Dr. Jyoti Shiwalkar Head, Department of Statistics Histop College

Course Foculty Al Analytics, Pune

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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.	Name of Student	1010100	T-Section 200		<u>~</u> _
S. No.		21.012019 2pm-4 pm	22.01.2019 2PM -4PM	-0, 2hrs	62 c2 1
1	Ms. Dorin Joseph	Doseph.	Boseph.		Doseph.
2	Ms. Sanjana Saneja	Lujura	Hanjana		etaniana
3	Ms. Ritika S. Gulati		77.		15-42-1-41
4	Ms. Poonam P. Thakare		- Water		
5	Ms. Ketaki Yawalkar	JACK,	Down	A 1	
6	Ms. Supriya Sharma	Edwiga.	Filminger.		Stemps
7	Ms. Renuka Jakate	Hotate	- Rokale	tote	ande
8	Ms. Tanvi A. Bamrotwar	Plante	Panie	-V	Barra
9	Ms. Rohma Azeem	A divi	Will.		Xi)
10	Ms. Nikita Sawarkar	Maigarlas	Ministra		Mariana
11	Ms. Yashashri Pophali	Workali	Workali	Mothali	Mornal
12	Ms. Sana Diwan	Sang.	Dang.		alars.
13	Ms. Manisha Katre	xolve	ratie	volta.	2 obje
14	Ms. Farheen S. Shaikh	Joshakh	falleth	Tr.	Sathath
15	Ms. Apekha H. Jambhulkar	dankullow	apmiduller	_	Janblullar
16	Ms. Ruchita M. Telang	7	Total	Plans	Palona
17	Ms. Mrunal D. Kawadkar	Mayades	Marvader	A awardes	Kaunder
18	Ms. Maryann Gomes	Não	Shor		more

Dr. Jyoli Shiwalkar Head, Department of Statistics Hislop College

Course Faculty Al Analytics, Pune

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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	03.022019	04.02.2019	05.01.2019
1	Ms. Dorin Joseph	12:00 pm-3 pm Doseph-		2 hrs
2	Ms. Sanjana Saneja	Hayana	Goseph.	Hayjawa
3	Ms. Ritika S. Gulati	1 1 1 1	(2)	aprojection
4	Ms. Poonam P. Thakare	TANKEUS	thereour	theorem
5	Ms. Ketaki Yawalkar		Trace	100
6	Ms. Supriya Sharma	Silving	Colorida	Silvery
7	Ms. Renuka Jakate	akate		akate .
8	Ms. Tanvi A. Bamrotwar	Hamin	Ramin	- CAT
9.	Ms. Rohma Azeem	1		Marigan
10	Ms. Nikita Sawarkar	magnecu	Maisarlean "	minakan
11	Ms. Yashashri Pophali	. ,-	. Woohali	Mobball
12	Ms. Sana Diwan		Sara.	Sara.
13	Ms. Manisha Katre		rative	scatte
14	Ms. Farheen S. Shaikh	1532	Lasheilan	Ladlieith.
15	Ms. Apekha H. Jambhulkar	opmbluta	Janibulkas	chunting land
16	Ms. Ruchita M. Telang	V	Lang	Petona
17	Ms. Mrunal D. Kawadkar	Mawader	Manadler	Mawadke
18	Ms. Maryann Gomes	Mawader	De	180 -

Dr. Jyoti Shiwalkar Head, Department of Statistics

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Course Faculty
Al Analytics, Pune



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 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.

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