

College of Computer Science and Information Technology Latur  
Department of Biotechnology

Date: 11 / 01 / 2016

Notice

All the B.Sc.BT SY students are informed that Department Of Biotechnology is organizing the five day training program on Diagnostic Biology, interested student should register their name with Mr. K. P. Makanikar till 16 January 2016.

HOD

Mr. N. V. More

Principal

Principal  
Dr. N. S. Zilpe  
College Of Computer Science  
And Information Technology, Latur

Royal education Society's  
College of computer science and Information technology Latur  
Department of Biotechnology

**Certificate Program on Diagnostic Biology**  
18 January – 22 January 2016

**Program Content:**

Sr No	Name of Topic
1	Blood hemoglobin estimation
2	Blood component separation studies
3	Blood cell studies
4	Blood sugar studies
5	Revision
6	Exam

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And Information Technology, Latur



*Royal Education Society's*  
**College Of Computer Science and Information Technology, Latur**  
**Certificate Program on Diagnostic Biology**

**Registrations**

Sr. No.	Name Of Student	Mobile No.
1	AMBAD MAYURI MOHANRAO	9527967499
2	AWADE BHIMA KONDIRAM	7758048272
3	BASTAPURE NEHA KAMLAKAR	9421196084
4	BHANDE POOJA PRAKASH	8308137783
5	BHUJBAL PAYAL VIKAS	7620662103
6	BHUJBAL SNEHAL DEEPAK	8856852120
7	BHURE BALAJI SHIVAJI	9561480085
8	BHUTTE VAISHANVI VIJAYKUMAR	8888226598
9	BILAPATTE SUMIT DNYONOB	9421986699
10	MANGRULE NIHAL JAMIR	7030566596
11	GHOBALE PREMSAGAR PRAKASH	9503197527
12	GHODAKE AMOL KASHINATH	9545251069
13	GOUNDGAVE AKASH BASAVRAJ	9538817129
14	HAKKE POOJA BALWANT	9881087193
15	JADHAV LAHU SUBHASH	7875284309
16	JATAL PAYAL PANDURANG	9096597622
17	KATTE SHUBHAM SHUDHAKAR	9823044051
18	KENDRE NAGNATH BAPURAO	8975639601
19	KOKANE AMAR SHRINRANG	8087161522
20	KOLI ABHISHEK ACHAYUT	8805573014





Royal Education Society's  
College Of Computer Science and Information Technology, Latur  
Certificate Program on Diagnostic Biology

Attendance

Sr. No.	Name Of Student	18-01-2016	19-01-2016	20-01-2016	21-01-2016	22-01-2016
1	AMBAD MAYURI MOHANRAO	P	P	P	P	A
2	AWADE BHIMA KONDIRAM	P	A	P	P	P
3	BASTAPURE NEHA KAMLAAR	P	P	P	P	P
4	BHANDE POOJA PRAKASH	P	P	P	P	P
5	BHUJBAL PAYAL VIKAS	A	P	P	P	P
6	BHUJBAL SNEHAL DEEPAK	A	P	P	A	P
7	BHURE BALAJI SHIVAJI	P	P	P	P	P
8	BHUTTE VAISHANVI VIJAYKUMAR	P	A	P	P	P
9	BILAPATTE SUMIT DNYONOB	P	P	P	P	A
10	MANGRULE NIHAL JAMIR	P	P	P	P	P
11	GHOBALE PREMSAGAR PRAKASH	P	P	A	A	P
12	GHODAKE AMOL KASHINATH	P	P	P	P	P
13	GOUNDGAVE AKASH BASAVRAJ	P	P	P	P	P
14	HAKE POOJA BALWANT	A	P	P	P	P
15	JADHAV LAHU SUBHASH	P	A	P	P	P
16	JATAL PAYAL PANDURANG	P	P	P	P	P
17	KATTE SHUBHAM SHUDHAKAR	P	P	A	P	P
18	KENDRE NAGNATH BAPURAO	P	P	P	A	P
19	KOKANE AMAR SHRINRANG	A	P	P	P	P
20	KOLI ABHISHEK ACHAYUT	P	A	P	P	P





## CURRICULUM VITAE



**Maknikar kishorkumar panditrao**

E.mail:- kishormaknikar@gmail.com

Contact no: 9764670197, 9112882315

### **CAREER OBJECTIVE**

To pursue a challenging career in Biotechnology, utilizing my skills for the growth of my organization, which in turn provides an environment where ethics and talent regain supreme, leading to personal and organization growth.

### **ACADEMIC QUALIFICATIONS**

COURSE /DEGREE	COLLEGE / UNIVERSITY	INSTITUTE/ YEAR PASSING	OF PERCENTAGE /CLASS / GRADE
M.Sc.(Biotechnology)	S. R.T. M. University,Nanded.	2007	50.41%
B.Sc. (Computer Science, Zoology & Botany)	S. R.T. M. University,Nanded.	2004	61.83%
H.Sc.	Divisional Board ,Latur	2001	55.63%
S.S.C.	Divisional Board, Latur	1998	69.83%
ICAR NET	Indian Council of Agricultural Research New Delhi	2014	—
PhD (Appeared )	S. R.T. M. University,Nanded.	2015	—





- 1) **State Level Conferences / Seminars /Workshops : 10<sup>th</sup> ADNAT convention**, A two days symposium on RNAi & micro RNA in development and health, Held at C.C.M.B. Hyderabad on 23,24 Feb. 2006. (AP)
- 2) **National conference on - Recent trend and future prospectus Biological sciences** sponsored by University Grant Commission organized by Department of Botany Maharashtra Udaygiri Mahavidyalaya Udgir ,18-19 January 2013(MS)
- 3) **National conference on –Research methodology** sponsored by university grant commission by Bhai Kishanrao mahavidyalay ,Chakur. 28/Nov /2015 (MS)
- 4) **National conference on –New frontier in animal science** sponsored by university Grant Commision organized by Department Gurubudhi Swami college Purna.22-23 / Dec/2015. (MS)
- 5) **One Day Interdisciplinary National Seminar “On Sustainable Development of the Environment ,,** Sponsored by SRTMU Nanded , Department of Microbiology , Shivneri Mahavidyalaya, Shirur-Anantpal,(ms) India 27th February, 2016
- 6) **BMTVCS 12 “ Phytochemical analysis and antimicrobial activity of crude extract of *Withania somnifera*”** Maknikar Kishorkumar Panditrao , Department of Biotechnology, COCSIT College,Latur  
**UGC-SAP National Conference on, Bioactive Molecules and their Therapeutic Values: Current Status (BMTVCS-2016) March 13th and 14th, 2016**
- 7) **Biofertilizer production from Urban and agriculture waste for sustainability of soil: Review.**  
**Two day National Conference on “ Use of Microbes for Green Biotechnology”,** organized by the Department of Biotechnology, COCSIT College Latur. On 26 & 27 November ,2016.
- 8) **In silico protein structure prediction in bioinformatics : Review.** **Two day National Conference on “Current advances in Human –computer Interaction”** Organised by Department of computer Science , COCSIT College Latur on 23& 24 December 2016.
- 9) **UGC sponsored one day state level Workshop on Anti-plagiarism and Research.**on 4/February /2017 organized by S.R.TM.UNIVERSITY Sub center Latur, School of Social sciences and Library.

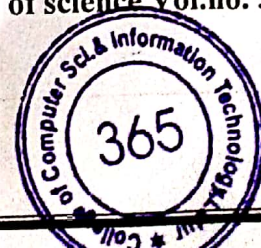




10) practices in sustainable agriculture Aquaculture and Animal Husbandry ( PISAAA-2017)  
Organised by R.S.M. Latur (M.S.)

**Research Paper published in National Conferences / Seminars:**

- 1) "Phytochemical Analysis of Rauvolfia Serpentine from Latur Region"  
K. P. Maknikar . College of Computer Science & Information Technology, Latur ISBN 978-93-83411-53-5 **National Seminar on Sustainable Development Of the Environment- 2016**
- 2) " Antibacterial Activity of *Piper nigrum* Linn, With Special Reference to Its Mode of Action on Bacteria". Maknikar K.P., M. B. Mane, P. S. Tathe  
COCSIT College Latur, S.R.T.M. University Nanded, P.V.K .P.College . Pravaranagar ,Loni  
ISBN 978-93-83411-53-5 **National Seminar on Sustainable Development Of the Environment- 2016**
- 3) **BMTVCS 12** " Phytochemical analysis and antimicrobial activity of crude extract of *Withania somnifera*" Maknikar Kishorkumar Panditrao .Department of Biotechnology, COCSIT College, Latur **UGC-SAP National Conference on, Bioactive Molecules and their Therapeutic Values: Current Status (BMTVCS-2016) March 13th and 14th, 2016**
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- 5) In silico protein structure prediction in bioinformatics : Review. **Two day National Conference on "Current advances in Human –computer Interaction" Organised by Department of computer Science , COCSIT College Latur on 23& 24 December 2016.**
- 6) Biofertilizer production from Urban and Agricultural plant waste for sustainability of Soil .  
Maknikar K. P. Biotechnology Research center ,Department of Biotechnology.,COCSIT College, Latur ,  
**special volume of international Conference on Technological Advances in Climate –smart Agriculture and sustainability ( TACSAS2017) SRTMU's Research journal of science Vol.no. 5 15-**





18 January 2017. (ISSN 2277-8594 PRINT)

7.) Molecular phylogenetics analysis of oxygen breathing channa punctata l. fishes from rivers: review, Maknikar K. P. and Priyatum A. S. Mohamadmujaheed COCSIT College, Latur, M.G. College of Agribiotechnology Biotech. research Center Pokharni, Nanded ORGANIZED BY Rsmi. National Symposium On Practices In Sustainable Agriculture, Aquaculture and Animal Husbandry (PISAAA - 2017) 20th and 21st March - 2017

#### NPTEL COURSES:

- 1) FUNCTIONAL GENOMICS From IIT KANPUR. IN 2016
- 2) HUMAN MOLECULAR GENETICS From IIT KANPUR IN 2016

**WORKSHOP :** Two day workshop in Bioinformatics - MAKEINTERN WORKSHOP in association with Spring Fest -IIT KHARAGPUR. organized by S.V.M Udgir IN 3/10/2017 TO 4/10/2017

#### WORK EXPERIENCE:

Designation	Post held	Date of Joining	Date of Leaving	Institute/ Organization
Assistant Professor	Teaching	21/7/2007	24/9/2008	S. V. I. P. S Institute , Latur
Assistant Professor	Teaching	25/9/2008	23/04/2011	Mahatma Gandhi College of Agriculture Biotechnology Pokharni Nanded
Assistance Professor	Teaching	22/11/2011	20/11/2013	S. V. M. College Udgir

#### Computer knowledge

- Diploma of CDAC. Pune in "Diploma in office automation and financial accounting.





**Permanent Address**

Road no 3 venkatesh nagr  
Latur  
: Maknikar Kishor P.  
At Makni Post Chapoli  
Tq. Ahmedpur  
Dist Latur pin code 413513

**Languages Known**

: English, Hindi, Marathi.

**Email**

: kishormaknikar@gmail.com

**Contact No**

: 9764670197

**Reference**

Dr. Virendra Gomase

Professor Department of bioinformatics

D.Y. Patil University ,Navi Mumbai

**Declaration**

I do hereby declare that the above information given by me in the application is true and complete to the best of my knowledge.

Place:

Date:

  
Candidate Name & Signature

( Mr. Maknikar K. P.)



# Department of Biotechnology

## Certificate Program

On

## Diagnostic Biology

18<sup>th</sup> January to 22<sup>nd</sup> January, 2016

### Feedback Form

Scale	Yes / No	Marks out of 10	Comment
Is the training program facilities were appropriate or satisfactory?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	10	
Is the resource person was well prepared and knowledgeable?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	10	
Is the training program helpful for you?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	10	
Is the course met its aims & objectives?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	10	
Do you have any suggestions for future training program that you would like us to organize?	no suggestion		
Thank you for completing the questionnaire.			





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Is the training program facilities were appropriate or satisfactory?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	9	
Is the resource person was well prepared and knowledgeable?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	9	
Is the training program helpful for you?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	6	
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Is the training program helpful for you?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	9	
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Is the resource person was well prepared and knowledgeable?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	9	
Is the training program helpful for you?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	7	
Is the course met its aims & objectives?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	8	
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Is the training program facilities were appropriate or satisfactory?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	8	
Is the resource person was well prepared and knowledgeable?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	8	
Is the training program helpful for you?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	8	
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Is the resource person was well prepared and knowledgeable?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	10	
Is the training program helpful for you?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	10	
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8. Insulin is secreted by ----- cell of pancreas.

- a)alpha      b)beta      c)gamma      d) delta

9. During blood formation erythropoietin is produced by

- a)Liver      b)Pancreas      c)Kidney      d)none of the above

10. The drugs that are used in type II diabetes mellitus works in ----- way.

- a)It increase uptake of glucose by cells  
b) It increase the secretion of insulin by pancreas  
c) It decrease the hunger rate  
d) None of the above

11. The basic Ig unit is composed of:

A 2 identical heavy and 2 identical light chains.

B 2 identical heavy and 2 different light chains.

C 2 different heavy and 2 identical light chains.

D 2 different heavy and 2 different light chains.

12. The antigen present over the RBC of A blood group individual.

- a)N-acetylglucosamine      b)N-acetylgalactosamine  
c) Both a and b      d) None of the above

13. Which of the following is the most abundant protein in blood plasma?

- a)Heparin      b)Albumin      c)Insulin      d)None of the above

14 . Diabetes mellitus is characterized by

- a)Elevated blood urea level      b)Elevated blood uric acid level  
c) Elevated blood sugar level      d) None of the above

15. Which of the following concentration of Hcl is used in sahli hemoglobin estimation study?

- a)1N Hcl      b)2N Hcl      c) 0.1N Hcl      d)0.2N Hcl

16. Typhoid is transmitted by

- a) Contaminated water      b) contaminated food  
c) Both a and b      d) Mosquitoes





17) Phagocytic white cells (leukocytes, e.g. macrophages) congregate within \_\_\_\_ when foreign organisms get through a cut in the skin.

- a) Microseconds
- b) Seconds
- c) Minutes
- d) Hours

18) Which of the following mediates an early response to viral infections by the innate immune system?

- a) Complement components
- b) Vaccines
- c) T and B lymphocytes
- d) Cytokines

19) Which of the following is a messenger that mediates the connection between the innate and adaptive immune systems?

- a) Complement components
- b) Vaccines
- c) T and B lymphocytes
- d) Cytokines

20) Which of the following immune system components would NOT recognize a macromolecule epitope (binding site)?

- a) Phagocyte
- b) T lymphocyte
- c) B lymphocyte
- d) Antibody

21) Which of the following is a large genomic region or gene family found in most vertebrates, playing an important role in immunity?

- a) Antigen-recognition molecules
- b) Major histocompatibility complexes (MHCs)
- c) Human leukocyte antigens (HLAs)
- d) Immunoglobulin
- e) Epitopes





22) How are B-cell and T-cell antigen receptors distributed?

- a) By size (steric hindrance)
- b) By molecular weight
- c) By activation (clonal)
- d) By location in the body) Equally (same number of each receptor)

23) A medical student acquired hepatitis B through a needle-stick injury. The student had not received their vaccinations for this virus and eventually experienced liver problems. One of the clinical signs of this disease is jaundice, which turns the skin and sclera what color?

- a) Black
- b) Red
- c) White
- d) Yellow

24) Monoclonal antibodies (mAb) are antibodies with a wide range of clinically important applications, such as pregnancy tests, cancer diagnosis, and cancer treatment. These antibodies are \_\_\_\_\_ and come from \_\_\_\_\_ parent cell.

- a) Dissimilar; Multiple
- b) Dissimilar; A single
- c) Identical; Multiple
- d) Identical; A single

25) Which of the following blood group is considered to be universal donor?

- a) A+ve    b) B+ve    c) AB+ve    d) O-ve

26) Serum is

- a) Blood without plasma
- b) Blood without fibrinogen
- c) Blood
- d) None of the above

27) Widal test involves the finding ----- of the following.

- a) Antibody    b) Antigen    c) Capsule    d) All of the above





28 ) Blood group detection is -----type antigen antibody reaction.

- a) Precipitation
- b) Complement fixation
- c) **Agglutination**
- d) none of the above

29 ) Total RBC count in men is.....

- a) **4.0-5.0**
- b) 4.3-5.3
- c) 4.2 -5
- d) 4.6 – 6.00

30. ) Which of the following tests is specific for urinary glucose?

- a ) **Benedict's**
- b Clinitest
- c) Pandy
- d) Dip stick





1. Which of the following does not protect body surfaces:

- A Skin.
- B Mucus.
- C Gastric acid.
- D Salivary amylase

2. The function of hemoglobin

- a) Carry the oxygen from lungs to peripheral tissue
- b) Carry the carbon dioxide from peripheral tissue to lungs
- c) Regulate the blood pH level
- d) All of the above

3 Which one of the following is a primary lymphoid organ:

- A Lymph nodes
- B Spleen
- C Peyer's patch
- D T hymus

4. Average male body contain ----- liter of blood

- a) 5 lit
- b) 5-6lit
- c) 4.5-5lit
- d) May vary

5. The first production of live but non-virulent forms of chicken cholera bacillus was achieved by:

- A Pasteur.
- B Salk
- C Jenner
- D Montague

6.MCH stands for in complete blood count

- a) Microcytic cell hemoglobin
- b) Macrocytic cell hemoglobin
- c) Mean corpuscular hemoglobin
- d) none of the above

7. Total RBC count in women is.....

- a) 4.0-5.0
- b) 4.3-5.3
- c) 4.2 -5
- d) 4.0 – 6.00





8. Insulin is secreted by ----- cell of pancreas.

- a)alpha      b)beta      c)gamma      d) delta

9. During blood formation erythropoietin is produced by

- a)Liver      b)Pancreas      c)Kidney      d)none of the above

10. The drugs that are used in type II diabetes mellitus works in ----- way.

- a)It increase uptake of glucose by cells  
b) It increase the secretion of insulin by pancreas  
c) It decrease the hunger rate  
d) None of the above

11. The basic Ig unit is composed of:

- A 2 identical heavy and 2 identical light chains.  
B 2 identical heavy and 2 different light chains.  
C 2 different heavy and 2 identical light chains.  
D 2 different heavy and 2 different light chains.

12. The antigen present over the RBC of A blood group individual.

- a)N-acetylglucosamine      b)N-acetylgalactosamine  
c) Both a and b      d) None of the above

13. Which of the following is the most abundant protein in blood plasma?

- a)Heparin      b)Albumin      c)Insulin      d)None of the above

14 . Diabetes mellitus is characterized by

- a)Elevated blood urea level      b)Elevated blood uric acid level  
c) Elevated blood sugar level      d) None of the above

15. Which of the following concentration of Hcl is used in sahli hemoglobin estimation study?

- a)1N Hcl      b)2N Hcl      c) 0.1N Hcl      d)0.2N Hcl

16. Typhoid is transmitted by

- a) Contaminated water      b) contaminated food  
c) Both a and b      d) Mosquitoes





17) Phagocytic white cells (leukocytes, e.g. macrophages) congregate within \_\_\_\_ when foreign organisms get through a cut in the skin.

- a) Microseconds   b) Seconds   c) Minutes   d) Hours

18) Which of the following mediates an early response to viral infections by the innate immune system?

- a) Complement components  
b) Vaccines  
c) T and B lymphocytes  
d) Cytokines

19) Which of the following is a messenger that mediates the connection between the innate and adaptive immune systems?

- a) Complement components  
b) Vaccines  
c) T and B lymphocytes  
d) Cytokines

20) Which of the following immune system components would NOT recognize a macromolecule epitope (binding site)?

- a) Phagocyte  
b) T lymphocyte  
c) B lymphocyte  
d) Antibody

21) Which of the following is a large genomic region or gene family found in most vertebrates, playing an important role in immunity?

- a) Antigen-recognition molecules  
b) Major histocompatibility complexes (MHCs)  
c) Human leukocyte antigens (HLAs)  
d) Immunoglobulin  
e) Epitopes





22 ) How are B-cell and T-cell antigen receptors distributed?

- a) By size (steric hindrance)
- b) By molecular weight
- c) By activation (clonal)
- d) By location in the body) Equally (same number of each receptor)

23 ) A medical student acquired hepatitis B through a needle-stick injury. The student had not received their vaccinations for this virus and eventually experienced liver problems. One of the clinical signs of this disease is jaundice, which turns the skin and sclera what color?

- a) Black
- b) Red
- c) White
- d) Yellowe

24 ) Monoclonal antibodies (mAb) are antibodies with a wide range of clinically important applications, such as pregnancy tests, cancer diagnosis, and cancer treatment. These antibodies are \_\_\_\_ and come from \_\_\_\_ parent cell.

- a) Dissimilar; Multiple
- b) Dissimilar; A single
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*Royal Education Society's*  
**College Of Computer Science and Information Technology, Latur**  
**Certificate Program on Diagnostic Biology**

**Examination Result**

Sr. No.	Name Of Student	Marks
1	AMBAD MAYURI MOHANRAO	24
2	AWADE BHIMA KONDIRAM	20
3	BASTAPURE NEHA KAMLAKAR	22
4	BHANDE POOJA PRAKASH	21
5	BHUJBAL PAYAL VIKAS	20
6	BHUJBAL SNEHAL DEEPAK	23
7	BHURE BALAJI SHIVAJI	15
8	BHUTTE VAISHANVI VIJAYKUMAR	18
9	BILAPATTE SUMIT DNYONOB	19
10	MANGRULE NIHAL JAMIR	16
11	GHOBALE PREMSAGAR PRAKASH	11
12	GHODAKE AMOL KASHINATH	10
13	GOUNDGAVE AKASH BASAVRAJ	12
14	HAKKE POOJA BALWANT	14
15	JADHAV LAHU SUBHASH	17
16	JATAL PAYAL PANDURANG	18
17	KATTE SHUBHAM SHUDHAKAR	10
18	KENDRE NAGNATH BAPURAO	15
19	KOKANE AMAR SHRINRANG	16
20	KOLI ABHISHEK ACHAYUT	28

Incharge



*NUE*  
HoD