



**SANT GADGE BABA
AMRAVATI UNIVERSITY**
AMRAVATI - 444602
(M.S.)

☎ : 2662206, 2662207, 2662208, 2662249, 2662358.
website : www.sgbau.ac.in

FAX NO. 0721-2660949, 2662135

Email: reg@sgbau.ac.in

Department of Lifelong Learning & Extension

Department of Lifelong Learning & Extension
No. SGBAU/DLLE/526/ 282/2022
Date:- 07/09/2022

TO WHOM IT MAY CONCERN

This is to certify that Shri Radhakisan Laxminarayan Toshniwal College of Science, Akola (Maharashtra State) college code - 210 is affiliated with Sant Gadge Baba Amravati University, Amravati from 1970. The college has permanent affiliation and the following course / subject are thought in the said college as per approval by Department of Lifelong Learning & Extension, Sant Gadge Baba Amravati University, Amravati.

They are as follows:

Sr. No.	Name of Course & Duration	Duration of Course	Current Affiliation Status Permanent / Temporary
1.	Diploma in Sericulture	6 Months	Permanent
2.	Diploma in Astronomy	6 Months	Permanent

I wish success in the ambitious task which has desires to undertake in future.


Dr. Shrikant Patil
DIRECTOR
Deptt. of Lifelong Learning
& Extension
Sant Gadge Baba Amravati University



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Certificate of Appreciation


This is to certify that Shri Radhakisan Laxminarayan Toshniwal College of Science, Akola (Maharashtra State) college code - 210 was designed the following six moth skill based Diploma Courses.

Hence provide an appreciation certificate to the college by Department of Lifelong Learning and Extension, Sant Gadge Baba Amravati University, Amravati.

Sr.No.	Name of Course	Duration of Course	Name of the Course Designer
1.	Diploma in Sericulture	6 Months	Dr. R. P. Joshi Asst. Professor Dept. Zoology
2.	Diploma in Astronomy	6 Months	Shri S. R. Jaiswal Asst. Professor Dept. Physics

I wish her/him success in the future and become a role model for teachers.


Dr. Shrikant Patil
DIRECTOR
Dept. of Lifelong Learning
& Extension
Sant Gadge Baba Amravati University


Sant Gadge Baba Amravati University
Department of Lifelong Learning & Extension
Diploma Courses
(6 Month)
Syllabus
For
Diploma in Astronomy

(Theory)

Unit I:

History of Astronomy

(20 Marks)

1. Pre historic astronomy
2. Early ideas of heavens
3. Astronomy as tool in everyday life and basis for religion.
4. Contributions by ancient Hindu, Arabic and Greek astronomers or thinkers like Ptolemy, Aryabhata, Varahmir, Nicolas Copernicus, Johannes Kepler, Galileo Galili, Tycho Brahe, Issac Newton etc.

Unit II:

Sky and Coordinate system in Astronomy

(20 Marks)

1. Aspect of sky at a given place
2. Sky conditions for astronomical observations
3. Identification of some prominent stars in the night sky
4. Spherical coordinate system.
5. Latitude and longitude at a place on the earth.
6. Celestial coordinate system (RA and Dec).
7. Concept of celestial equator, elliptic and equinoxes.
8. Precession of equinoxes.
9. Astronomical definition of time.
10. Visual magnitude system for stars and planets.

Unit III:

Sky observations at night

(20 Marks)

1. Ideal sky for astronomical observations.
2. Constellation including Zodiac belt.
3. Sky charts.
4. Motion of moon.
5. Apparent motion of sun.
6. Motion of planets.

Unit IV:

Astronomical Instruments

(20 Marks)

1. Sextant: Principle of working and its application for measurement of coordinates of stars and planets.
2. Introductions about lenses and mirrors.
3. Types of Telescope, Constructions Working, Handling the Telescope, Binocular, Telescope with mobile camera.

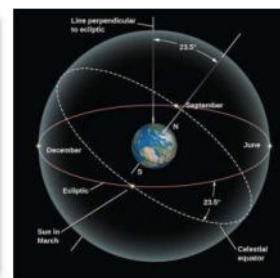
Practical Work: (200 marks)

The distribution of marks for practical-I & II will be as follows:

- Students must be performing **hands-on Projects**. (80 marks)
- Students give Seminar on selected hand-on project and submit it report (20 marks)
- Students must be performing **observatory Projects**. (80 marks)
- Students give Seminar on selected observatory project and submit it report (20 marks)

Tentative Project List:

- Phases of the Moon
- Measuring the Diameter of the Sun
- Apparent motion of the sun
- Polari the north star/Ursa Major
- Planets and Planetary Systems
- Nebulas and Galaxy
- Mechanism of the Seasons
- Constellation including Zodiac belt
- Solar & Lunar eclipse
- Telescope Making
- Spacecraft
- Rocket Launcher
- Artificial Satellite



SANT GADGE BABA AMRAVATI UNIVERSITY

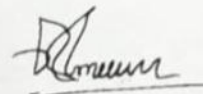
SHORT - TERM CERTIFICATE COURSES EXAMINATION OF SUMMER - 2021

PROGRAMME FOR THEORY
Revised

Day	Date	Time	Subject
Tuesday	30-11-2021	09 AM. To 10 AM.	Certificate Course Tally
			Certificate Course Desktop Publishing
			Certificate Course Food & Beverages Services
			Certificate Course Housekeeping
			Certificate Course Textile weaving
			Certificate Course Textile Spinning
			Diploma in Sericulture
			Diploma in Astronomy
		02 PM. To 03 PM.	a) Diploma in Naturopathy & Yoga Therapy Paper-I
			b) Diploma in Naturopathy & Yoga Therapy Paper-II

(Note :- The Schedule is subject to corrections, if any)

The Name of Examination centre is printed on Admission Card of the examinee.



Dr.H. R. Deshmukh

Director, Board of Examinations and Evaluation
Sant Gadge Baba Amravati University

AMRAVATI

DATE : 24/11/2021

Shri R. L. T. College of Science, Akola

Time Table (Online/Offline mode)

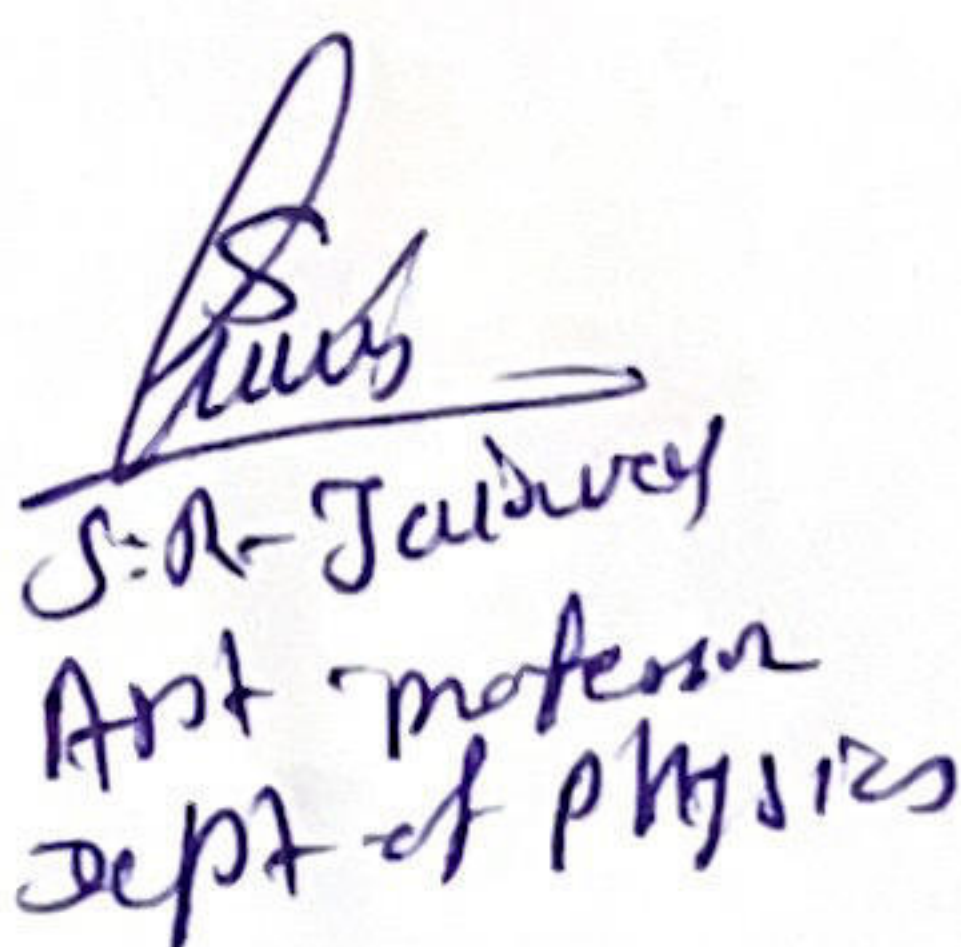
Session-2021-2022 (w.e.f.-01/12/2021)

Diploma Courses (Astronomy and Sericulture)

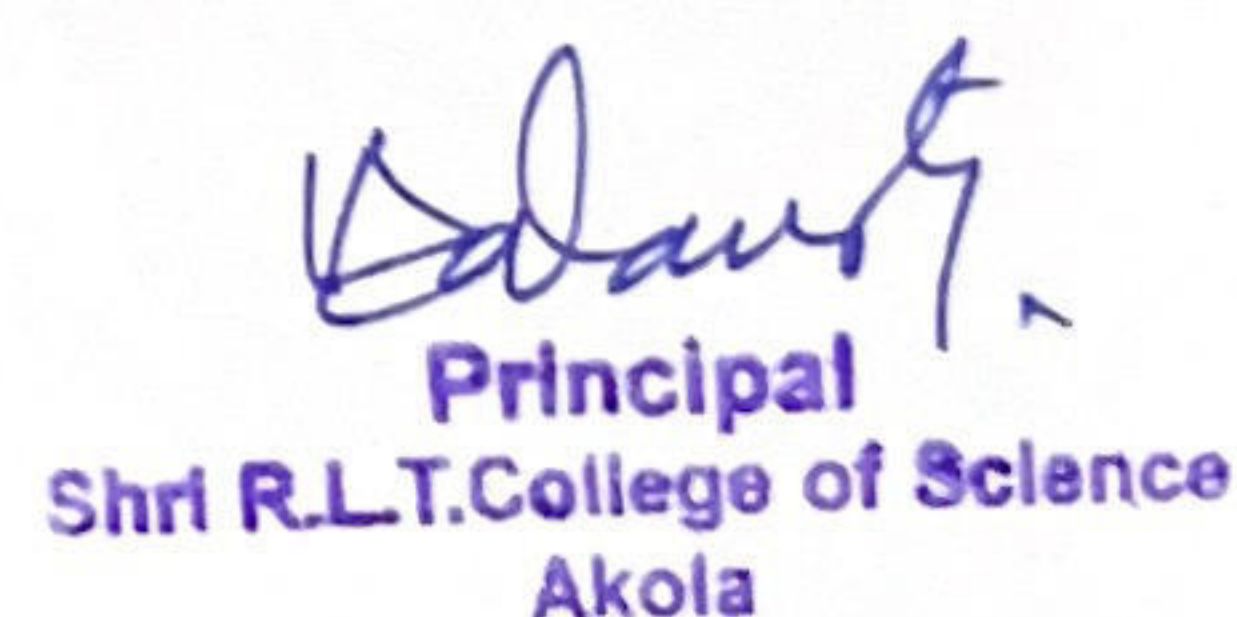
Day	Class	Time	Theory/ Practical
Monday	Sericulture	10:00 am to 11:00 am	Theory
Tuesday	Astronomy	5:00 pm to 6:00 pm	Theory
Wednesday	Sericulture	10:00 am to 11:00 am	Theory
Thursday	Astronomy	5:00 pm to 6:00 pm	Theory
Friday	Sericulture	9:00 am to 11:00 am	Practical
Saturday	Astronomy	6:00 pm to 8:00 pm	Practical



Dr. Rashmi Sawalkar (Joshi)
Assistant Professor
Department of Zoology
Shri R.L.T.College of Science, AKOLA



S. R. Jadhav
Asst. professor
dept of physics




Principal
Shri R.L.T.College of Science
Akola

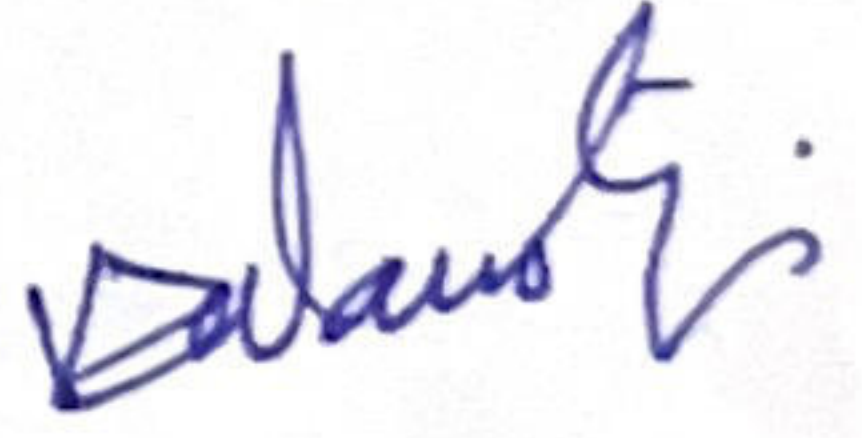
Shri R. L. T. College of Science, Akola. (College Code-210)**Diploma in Astronomy****List of the Admitted Students****Session: 2021-2022**

Sr. No.	Email Address	Full Name	Class	Batch	Mobile
1	aachaltayde2001@gmail.com	Aachal Rajesh Tayde	B.Sc.-III	P5	9172592474
2	abhishekbaberwal1@gmail.com	Abhishek Shivraj Baberwal	M.Sc.-I	Physics	9518961433
3	achalbelokar@gmail.com	Achal Sanjay Belokar	B.Sc.-I	P2	8767263422
4	ajitnj12@gmail.com	Ajit Nanaksingh Jat	M.Sc.-I	Physics	8483831379
5	akankshadeshmukh296@gmail.com	Akanksha Ajit Deshmukh	B.Sc.-I	P4	8080209427
6	anirudhasavarkar123@gmail.com	Aniruddha Ravindra Sawarkar	B.Sc.-III	B5	9112701279
7	omlahriya8477@gmail.com	Arti Dipak Lahariya	M.Sc.-I	Physics	9322263869
8	gashwini068@gmail.com	Ashwini Kishor Gaikwad	M.Sc.-I	Physics	9579256467
9	chetankale2000@gmail.com	Chetan Vilas Kale	M.Sc.-I	Physics	9370887226
10	barshed7773@gmail.com	Dhanashri Anil Barshe	M.Sc.-I	Mathematics	8862069538
11	krishnashukla9527@gmail.com	Krishna Jagannath Shukla	B.Sc.-II	P1	9527500559
12	mayurimunde0102@gmail.com	Mayuri Vijay Munde	M.Sc.-I	Physics	9665465782
13	muktawanare899@gmail.com	Mukta Onkar Wanare	M.Sc.-I	Physics	7972625647
14	anilnagpure2019@gmail.com	Neha Anil Nagpure	B.Sc.-I	P4	7776893498
15	thetenikita11@gmail.com	Nikita Rajendra Thete	B.Sc.-II	B3	7498061485
16	poojawanare2000@gmail.com	Puja Pundalik Wanare	M.Sc.-I	Physics	8767808295
17	chavhanprachi9901@gmail.com	Prachi Kisan Chavhan	B.Sc.-III	P2	9890263484
18	prathameshgiri50@gmail.com	Prathamesh Chandrashekhar Giri	B.Sc.-I	P4	7821881205
19	prernaghaukar@gmail.com	Prerna Pandurang Ghuikar	M.Sc.-I	Physics	8329012606
20	priyankakhandare19@gmail.com	Priyanka Sahebrao khandare	M.Sc.-I	Physics	7558577307

21	sajugawai03@gmail.com	Sajagata Subhash Gawai	B.Sc.-I	P2	7588763376
22	sanandandeshmukh11040@gmail.com	Sanandan Sunil Deshmukh	B.Sc.-II	P4	7038039002
23	sayaliKamble936@gmail.com	Sayali Gajanan Kamble	B.Sc.-I	P2	9359966853
24	saylidaivadnya14@gmail.com	Sayli Mahendra Daivadnya	M.Sc.-I	Physics	8329921554
25	sgore5007@gmail.com	Shruti Girish Gore	B.Sc.-I	P4	9699795274
26	wankhedesojwal@gmail.com	Sojwal Mohan Wankhede	M.Sc.-I	Physics	7774842587
27	chavhanvaishnavi2019@gmail.com	Vaishnavi Pandhari Chavhan	B.Sc.-III	P4	9307377329
28	vrushawankhade@gmail.com	Vrushali Ravi Wankhade.	B.Sc.-II	P4	7218194770
29	yoginibhagat24910@gmail.com	Yogini Ganesh Bhagat	M.Sc.-I	Physics	9021061876


 27/05/22
Shri S. R. Jaiswal
 Course Coordinator




Dr. V. D. Nanoty
 Principal

A-7843

Draft Scheme of Examination for the Certificate/Diploma/Advanced Diploma course for the Subject Clinical Laboratory Technology under the scheme of Career Oriented Programme by the U.G.C.

1. Preamble; Introduction, Objective, Eligibility scheme per year. Teaching Scheme (period per week) & Examination scheme.

I Certificate Course

Paper-I

- Unit I Anatomy
- Unit II Physiology.
- Unit III Biochemistry & Elementary clinical biochemistry.
- Unit IV Microbiology
- Unit V Haematology & Clinical pathology

Practicals :- Based on theory paper.

II Diploma Course.

Paper-II

- Unit I Clinical Biochemistry
- Unit II Immunohaematology & Blood Bank Technology
- Unit III Histo technology
- Unit IV Exfoliative cytology, museum techniques & Autopsy Technique
- Unit V Laboratory Management & Ethics

Practicals :- Based on theory paper.

III Advanced Diploma Course.

Paper-III

- Unit I Immunology and Serology.
- Unit II Parasitology, Mycology, and Virology.
- Unit III Advance Techniques & Future Trends in Biochemistry, Microbiology and Clinical Pathology.
- Unit IV Advance Techniques and future Trends in Haematology, Histotechnology and Molecular diagnostic techniques.
- Unit-V Computer Applications

Practicals :- Based on theory paper.

Draft Syllabus of Examination for the Certificate/Diploma/Advanced Diploma course for the Subject Clinical Laboratory Technology under the scheme of Career Oriented Programme by the U.G.C.

Preamble : To make the current Indian higher education system more relevant & carrier oriented with focus on quality & excellence.

Introduction :- Knowledge; skills; and aptitude for gainfull employment in wage sector in general and self employment in particular.

Objective :- Skill enhancing.

A) Eligibility :-

1) **Certificate Course :** A Student should have passed 12th standard examination of Maharashtra State Board of Secondary and Higher Secondary Education in Science stream or an examination recognised as equivalent thereto and should have admitted to B.Sc.Part-I / B.Com.Part-I / B.A.Part-I.

2) **Diploma Course :** A Student should have passed Certificate Course in Clinical Laboratory Technology.

3) **Advanced Diploma Course :** A Student should have passed Diploma Course in Clinical Laboratory Technology.

B) Teaching scheme (per course) :-

150 Theory periods = 150
50 Practical x 3 periods each = 150
Total 300 Periods = 20 Credits.

Fieldwork/Projectwork/Training (3 Hrs x 50) = 150 Hrs. = 10 Credits

Total 30 Credits in a year.

I Certificate course = 30 credit. Ist year
II Diploma course = 60 credits (30 earned during certificate course).. .. IInd year
III Advanced diploma course = 90 credits (30 in certificate & 30 in IIIrd year
diploma = 60 earned)

C) Examination Scheme (every year) :-

Theory : 70 Marks 3 Hrs.
Practical : 30 Marks 4 Hrs.
Project/Fieldwork : 50 Marks

Minimum Marks for passing : An examinee must obtain in order to pass the examination 35% marks for theory and practicals separately.

सि. जावडे.
Imp. document.
AMB
30/4/07

SANT GADGE BABA
AMRAVATI UNIVERSITY
AMRAVATI - 444602
(M.S.)

☎ : 2662206, 2662207, 2662208, 2662249, 2662358
website : www.amtuni.com

FAX NO. 0721-2660949, 2662135

GRAM. AMUNI

No.SGBAU/7-D/6/711
Date :

3/7
107

20 APR 2007

To,
The Secretary,
Department of Higher Education,
Government of Maharashtra,
Mantralaya Annexe,
Mumbai-32.

Subject : Sanction of Courses under the UGC scheme of " Career Oriented Programme
2006-07-under plan" to the colleges affiliated to the University.

Sir,

Proposals of the colleges for " Introduction of Career Oriented Courses at first-degree level, were recommended by the University to the UGC under the UGC scheme. The UGC has granted permission to the following colleges for Career Oriented Courses at first-degree level and also granted financial assistance for this purpose, copy of which is enclosed herewith for your reference.

Sr. No.	Name of the Colleges	Course Approved by UGC	Fin. Assistance Sanction
1	Vidnyan Mahavidyalaya, Malkapur, Distt. Buldana	Water Quality and Soil Testing	7.00 lakh
2	Late N.A. Deshmukh Arts & Comm. College, Chandurbazar, Distt. Amravati	Computer and information Tech.	7.00 lakh
3	Smt. Kesharbai Lahoti M.V. Amravati	Fashion Designing	5.00 lak
4	Lokmanya Tilak M.V., Wani Distt. Yavatmal	Functional English	5.00 lakh
5	L. B. Aney Mahila M.V., Yavatmal	Fashion Designing	5.00 lakh
6	M. Fule Arts, Commerce & Sitarmaji Choudhari Science College, Warud, Distt. Amravati	Biomedical Laboratory	7.00 lakh
7	Matoshri Vimlabai Deshmukh Mahavidyalaya, Amravati	English Grammar and Communicative Skills	5.00 lakh
8	Nehru Arts & Commerce College, Nerparsopant, Distt. Yavatmal	Accounting & Auditing	5.00 lakh
9	R.A.Arts & Shri M.K.Commerce & Shri S.R.Rathi Science Mahavidyalaya, Washim	E-Commerce	5.00 lakh
10	Swantantra Sainik Late K.R.Innani Mahavidyalaya, Karanaja(Lad), Washim	Taxation	5.00 lakh
11	S.P.M.Late Tatyasaheb Mahajan Arts & Commerce College, Chikhli, Dist.Buldana	E-Commerce	5.00 lakh
12	Smt. R.Sarda Arts & Commerce College, Anjangaon Surji, Distt. Amravati	Translation Proficiency	5.00 lakh
13	Vidya Bharati Mahavidyalaya, Amravati	Insurance	5.00 lakh
14	Smt. Vatsalabai Naik Mahila Mahavidyalaya, Pusad, Dist. Yavatmal	Functional English	5.00 lakh

Contd...2/....

15	Y.D.V.D. Arts & Commerce College, Teosa, Distt. Amravati	Finance Management & Auditing	5.00 lakh
16	Takshashila Mahavidyalaya, Amravati	Communicative Skills in English	5.00 lakh
17	Savitribai Phule Mahila Mahavidyalaya, Washim	Communicative Skills in English	5.00 lakh
18	S.Khandelwal Arts, Science & Commerce College, Akola	Biomedical Instrumentation	7.00 lakh
19	Arts & Science Mahila Mahavidyalaya, Mehkar, Distt. Buldana	Fashion Designing	5.00 lakh
20	Phulsing Naik Mahavidyalaya, Pusad, Distt. Yavatmal	Non-Conventional energy System	7.00 lakh
21	Adarsha Science, J.B.Arts & Commerce Mahavidyalaya, Dhamangaon(Rly.), Distt. Amravati	Web Designing & Office Automation	5.00 lakh
22	B.B.Arts, N.B. Commerce & B.P.Science College, Digras, Distt. Yavatmal	Vermiculture	7.00 lakh
23	Bharatiya Mahavidyalaya, Amravati	Clinical Laboratory Technology	7.00 lakh
24	Bar. R.D. Arts & Smt. I. K. Commerce & N.K.D. Science College, Badnera-Amravati	Sericulture	7.00 lakh
25	Dr. Babasaheb Ambedkar Mahavidyalaya, Amravati	Applied sociology	5.00 lakh
26	G. S. Gawande Arts & Commerce College, Umarkhed, Distt. Yavatmal	Agriculture Management	5.00 lakh
27	Ghulam Nabi Azad Arts & Commerce College, Barshitakli, Distt. Akola	Fashion Designing Computer Application	10.00 lakh
28	J.D.Patil Sangludkar Mahavidyalaya, Daryapur, Distt. Amravati	Fresh Water Fish Culture	7.00 lakh
29	K.N. College of Arts, Commerce, Karanja(Lad), Distt. Washim	Banking	5.00 lakh
30	Abasaheb Parvekar Mahavidyalaya, Yavatmal	Communication Skill in English	5.00 lakh
31	Arts & Commerce College, Motala, Distt. Buldana	Accountancy and Auditing	5.00 lakh

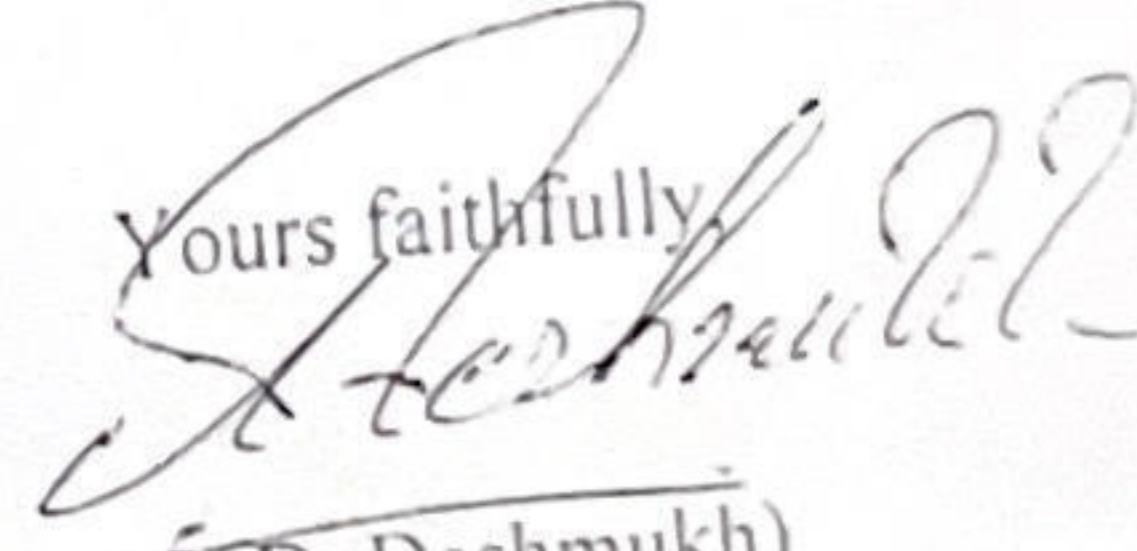
Contd.....3/-

32	G. S. Tompe Arts & Commerce Mahavidyalaya, Chandur Bazar, Distt. Amravati	Translation Proficiency Information and Computer Technology	12.00 lakh
33	B. S. Patil Mahavidyalaya, Achalpur, Paratwada, Distt. Amravati	Rural Handicraft	5.00 lakh
✓ 34	R. L. T. College of Science, Akola	Clinical Laboratory Technology	7.00 lakh
35	Shri Shivaji College, Akot, Distt. Akola	E-Commerce	5.00 lakh

The above courses sanctioned by the UGC are permanently on non-grant basis and there is no financial burden on the Government. It is requested to kindly grant permission for introduction of the courses to the said colleges at the earliest, so that the courses could be introduced from this academic session.

Thanking you.

Encl : Copies of the UGC letters.

Yours faithfully,

(C. D. Deshmukh)
Registrar

Copy forwarded for information to :

- 1] The Principal ,
-
- 2] Dy. Registrar (Academic), Sant Gadge Baba Amravati University
- 3] Asstt. Registrar (College), Sant Gadge Baba Amravati University

AMB
29/01/07 RIT College of
Dr Ali Science Akola
Ward No. 3548
Dated 29.03.2007



UNIVERSITY GRANTS COMMISSION
CAREER ORIENTED PROGRAMME
35- FERROZESHAH ROAD
NEW DELHI-110 001

F. No. 4-194/2007 (VE/COP)

February, 2007

26 FEB 2007

The Under Secretary (FD-III)
University Grants Commission,
New Delhi- 110002.

Sub: - Release of Grants-in-aid to R.L.T. College of Science, Akola for Career Oriented Programme 2006-07- under plan.

Sir,

With reference to the proposal submitted by R.L.T. College of Science, Akola under the UGC scheme of Career Oriented Programme. I am directed to convey the approval of the University Grants Commission for starting the following Career Oriented Courses in the above mentioned College from the academic year 2007-08:

Courses Approved	Seed Money (Rs. in lakh)
<u>Science</u> 1. Clinical Laboratory Technology	7.00
Total	7.00

I am also directed to convey the sanction of the University Grants Commission for payment of Rs. 7,00,000/- (Rupees Seven lakhs only) to R.L.T. College of Science, Akola as one time grant (Seed Money) under the scheme of Career Oriented Programme.

The assistance available in this programme is only in the form of a one-time as "Seed Money". The amount may be utilized for the purchase of books and journals, augmentation of laboratory facilities, equipment and payment of remuneration to the Guest faculty only.

The terms & conditions of the approval and grant released are as per the guidelines of the scheme.

1. The sanctioned amount is debitable to the major Head 3.1 (Career Orientation to Education). The above sanction is valid for payment during the current financial year 2007-08.
2. The amount of grant shall be drawn by the Under Secretary (Drawing & Disbursing Officer), University Grants Commission on the Grants-in-aid bill and shall be disbursed to and credited to the Principal R.L.T. College of Science, Akola through Demand Draft/Mail Transfer.
3. The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma submitted by the University/College/Institution.
4. The University/College shall maintain proper accounts only on approved items of expenditure.
5. The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it was sanctioned shall be furnished to the University Grants Commission as early as possible after the close of the current financial year.
6. The assets acquired wholly or substantially out of the University Grants Commission grant shall not be disposed or encumbered or utilized for the purposes other than those for which the grant was given, without proper sanction of the University Grants Commission and should, at any time the college ceases to function, such assets shall revert to the University Grants Commission.
7. A Register of Assets acquired wholly or substantially out of the grant shall be maintained by the University in the prescribed form.
8. The grantee institution shall ensure the Utilization of grants-in-aid for which it is being sanction/paid. In case non-utilization/part utilization, the simple interest @ 6% per annum as amended from time to time on unutilized amount from the date of drawl to the date of refund as per provisions contained in General Financial Rules of Govt. of India will be charged.

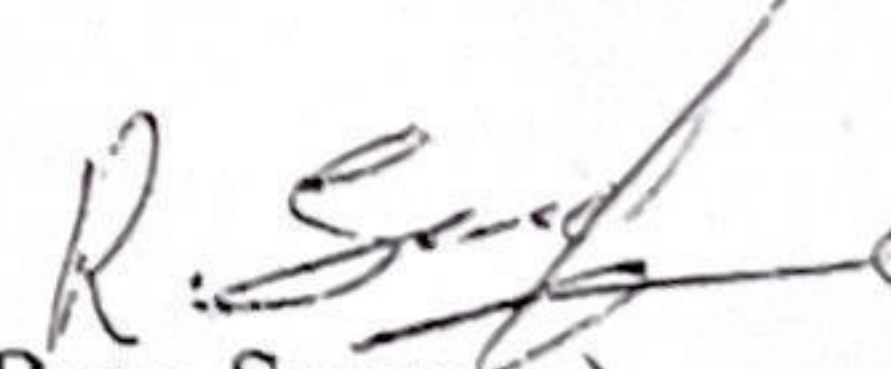
9. The interest earned by the University/College/Institute on this grants in aid shall be treated as additional grant and may be shown in the U.C./Statement of expenditure to be furnished by grantee institutions.
10. The University/College shall follow strictly all the instructions issued by the Govt. of India from time to time with regard to reservation of posts for scheduled Caste and Scheduled Tribes.
11. The University/College shall fully implement the Official Language Policy of Union Govt. and comply with the Official Language Act, 1963 and Official Language (use for officially purpose of the Union) Rules, 1976 etc.
12. This Sanction issues in exercise of the delegation of powers vide Commission office order No.25/92 dated May.01, 1992.
13. The funds to the extent are available under the scheme and has been noted in BCR for the year 2007-08 at S. No. _____ Page No. _____.

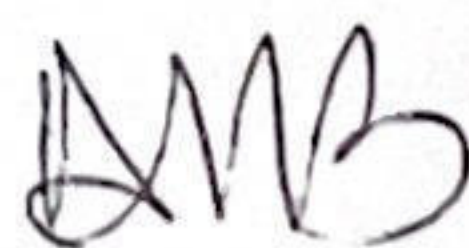
Yours faithfully,

(Dr. C.S. Meena)
Joint Secretary

Copy forwarded for information and necessary action to:

1. ✓ The Principal, R.L.T. College of Science, Akola - To intimate the receipt of this letter as well as the receipt of the sanction grant.
2. The Secretary to the Government of Maharashtra Deptt. of Education, Mumbai.
3. The Registrar, Amravati University, Amravati.
4. Office of Director, General, Audit General Revenues, AGCR Bldg., I.P. Estate, New Delhi.
5. Guard File, UGC, New Delhi.


(Ram Swarup)
Section Officer



PRINCIPAL
R.L.T. College of Science
Akola

RLT College of
Science Akola

In Ward No. 3871

Dated... 15/11/07

महाराष्ट्र शासन

- क्रमांक:-एनजीसी २००७/(१७३/०७)/मशि-३
उच्च व नव शिक्षण विभाग,
• मंत्रालय विस्तार भवन, मुंबई-४०००३२.
• दिनांक - २६ जुलै, २००७

प्रति,
कुलसचिव,
संत गाडगेबाबा विद्यापीठ,
अमरावती.

विषय:- युजीसी योजनेअंतर्गत व्यावसायिकमुख कार्यक्रम शैक्षणिक वर्ष २००६-०७
व्यावसायिक अभ्यासक्रमांना मान्यता

- संदर्भ:- १) विद्यापीठ अनुदान आयोगाचा पत्र क्र.एफ क्र.४-१५९ ते १६७, १६९ ते १९२,
१९४ व १९५ / २००७ (VE/COP), दि. २६ फेब्रुवारी २००७ चे पत्र
२) आपले पत्र क्र.एसजीबीएयू, ७-डी / ७१ / ३७९, दि.२४.०५.२००७

महोदय,

आपल्या विद्यापीठमाफत स्तुभर्षीय पत्राने सादर केलेला प्रस्ताव विचारात घेऊन आपल्या
विद्यापीठाच्या अस्तित्वातीतील खालील महाविद्यालयास त्याच्या नावासमोर दर्शावलेले विद्यापीठ अनुदान आयोग
प्रस्तुत व्यावसायिक अभ्यासक्रम सुरु करण्याबाबतचा प्रस्ताव सादर केला आहे.

अ. क्र.	महाविद्यालयाचे नांव	विषय	विद्यापीठ अनुदान आयोगाने मंजूर केलेला निधी (रु. लाखात)
१	विज्ञान महाविद्यालय, भस्क्रापुर, जि. बुलढाणा ४४३१०१.	वॉटर इवालीटी अॅण्ड सॉइल टेस्टिंग	७.००
२	के. एन. ए. देशमुख आर्ट्स आणि कॉमर्स कॉलेज चांदुरबाजार, जि. अमरावती	कॉम्प्युटर अॅण्ड इन्फॉर्मेशन टेक्नॉलॉजी	७.००
३	श्रीमती केसरीबाई लाहोटी महाविद्यालय, अमरावती ४४४६०३	फॅशन डिझाईनिंग	५.००
४	लोकमान्य टिळक महाविद्यालय, वणो जि. यवतमाळ	फॅशनल इंग्लिश	५.००
५	एल. बी. अणो महीला महाविद्यालय, यवतमाळ ४४५००१.	फॅशन डिझाईनिंग	५.००
६	म. फुले आर्ट्स, कॉमर्स अॅण्ड सितागमजी चौधरी सायन्स महाविद्यालय, वरुड जि. अमरावती ४४४९०६.	बायोटेक्नॉलॉजी लॅबोरेटरी	१९.००

अ. क्र.	महाविद्यालयाचे नांव	विषय	विद्यापीठ अनुदान आयोगाने मंजूर केलेला निधी (रु. लाखात)
			५.००
७	मातोश्री विमलाबाई देशमुख महाविद्यालय, अमरावती ४४४६०३	इंग्लिश ग्रामर अँड कम्युनिकेटिव्ह स्किल्स	५.००
८	नेहरु आर्ट्स अँड कॉमर्स कॉलेज, नेरसापत, जि. यवतमाळ	अर्काटींग अँड ऑडिटींग	५.००
९	आर. ए. आर्ट्स, श्री. एम. के. कॉमर्स अँड श्री. एस. आर. राठी सायन्स महाविद्यालय, वाशिम	ई-कॉमर्स	५.००
१०	स्वातंत्र्य सैनिक के आर. इनानो महाविद्यालय, कारंजा (लाड), वाशिम	टॅक्सेशन	५.००
११	एस. पी. एम. लॅट तात्यासाहेब म्हज्जन आर्ट्स अँड कॉमर्स कॉलेज, विखली, जि. बुलढाणा ४४३२०१.	ई-कॉमर्स	५.००
१२	श्रीमती आर. सारडा आर्ट्स अँड कॉमर्स कॉलेज, अंजनगावसुर्जी, जि. अमरावती	ट्रान्सलेशन प्राफीशियन्सी	५.००
१३	विद्या भारती महाविद्यालय, अमरावती	इन्शुरन्स	५.००
१४	श्रीमती वत्सलाबाई नाईक महिला महाविद्यालय, पुसद, जि. यवतमाळ	पॅक्शनल इंग्लिश	५.००
१५	वाय. डी. व्ही. डी. आर्ट्स अँड कॉमर्स कॉलेज, तिवसा, जि. अमरावती	एन्व्हेन्स मॅनेजमेंट अँड ऑडिटींग	५.००
१६	तक्षशीला महाविद्यालय, अमरावती	कम्युनिकेटिव्ह स्किल्स इन इंग्लिश	५.००
१७	साधित्रीबाई फुले महिला महाविद्यालय, वाशिम ४४४५०५.	कम्युनिकेटिव्ह स्किल्स इन इंग्लिश	५.००
१८	एस. खंडेलवाल आर्ट्स, सायन्स अँड कॉमर्स कॉलेज, अकोला	बायामेडीकल इन्स्ट्रुमेंटेशन	७.००
१९	आर्ट्स अँड सायन्स महिला महाविद्यालय, मेहेकर, जि. बुलढाणा	फॅशन डिझाईनिंग	५.००
२०	फुलसिंग नाईक महाविद्यालय, पुसद, जि. यवतमाळ	नॉन कन्व्हेशनल एनर्जी सिस्टीम	७.००
२१	आदर्श सायन्स, जे. वी. आर्ट्स अँड कॉमर्स महाविद्यालय, धामणगांव (रिल्वे), जि. अमरावती	वेब डेव्हलपिंग अँड ऑफिस ऑटोमेशन	५.००
२२	बी. बी. आर्ट्स, एन. बी. कॉमर्स अँड श्री. पी. सायन्स कॉलेज, दिग्रस, जि. यवतमाळ	वॉर्किंगल्डर	७.००
२३	भारतीय महाविद्यालय, अमरावती	विलिनिकल लॅबोरेटरी टेक्नॉलॉजी	७.००

२) विद्यापीठ अनुदान आयोगाच्या प्रस्तावाचे स्वल्प पाहता सादर व्यावसायिक अभ्यासक्रम सुरु करण्यासाठी पारंपारिक विषयातील एक विषय कमी करणे आवश्यक आहे. परंतु यामुळे संबंधित पारंपारिक विषयाचे शिक्षक अतिरिक्त होणार नाही याची खातरजमा विद्यापीठाने करावी.

३. प्रस्तुत प्रकरणी पुढील कार्यवाही विद्यापीठाने करावी व पूर्तता अहवाल संचालक, उच्च शिक्षण महाराष्ट्र राज्य, पुणे व सहसंचालक, उच्च शिक्षण, अमरावती विभाग, अमरावती यांना पाठवावा, ही विनंती.

हे आदेश, राज्य शासनाच्या www.maharashtra.gov.in या संकेत स्थळावर उपलब्ध असून त्याचा संगणक संकेतांक २००७०७२६११०४३१००१ आहे.

आपला

(बि.या. सुतार)

अवर सचिव, महाराष्ट्र शासन

प्रत,

संचालक, उच्च शिक्षण, महाराष्ट्र राज्य, पुणे

सहसंचालक, उच्च शिक्षण, अमरावती विभाग, अमरावती

संबंधित संस्था यांना सहसंचालक, उच्च शिक्षण अमरावती विभाग, अमरावती यांचे मार्फत

निवडनस्ती मशि-३

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संत गाडगेबाबा अमरावती विद्यापीठ
क्र.संगाबाअवि/७-ड/६/७१/४७/१०७
दिनांक : ११/२००७

7 NOV 2007

प्रत माहितीस्तव तथा पुढील कार्यवाहिस्तव सादर :

१) उपकुलसचिव (विद्या), संत गाडगेबाबा अमरावती विद्यापीठ.

२) उपकुलसचिव (म.वि), संत गाडगेबाबा अमरावती विद्यापीठ.

३) प्राचार्य,

अकोला

आर.उत्त.टी. विज्ञान महाविद्यालय

(संचालक, बी.सी.यु.डी.)

संचालक, बी.सी.यु.डी.

SYLLABUS PRESCRIBED FOR DIPLOMA COURSE IN
CLINICAL LABORATORY TECHNOLOGY,
THEORY

Along with
B.Sc II

Unit I - Clinical Biochemistry

- 1) Aim & scope of biochemistry.
- 2) Structure of cell.
- 3) Carbohydrate - Biological importance.
- 4) Amino Acids, Proteins, function of plasma protein.
- 5) Lipids - Definition, steroids
- 6) Nucleic Acids DNA, RNA.
- 7) Haemoglobin.
- 8) Enzymes & Coenzymes.
- 9) Gastric Juice - constituents, collection - Acidities.
- 10) Carbohydrate Metabolism, Glycolysis, glycogenolysis, gluconeogenesis, ketosis, glycosuria, renal glycosuria, ketonuria.
- 11) Metabolism of lipids, Triglyceride, cholesterol, plasmalipoprotein- ketone bodies & ketonuria.
- 12) Protein metabolism: urea, creatine, creatinine, protein urea, edema, transaminases.
- 13) Water & mineral metabolism - dehydration- calcium, phosphorus, sodium, potassium, chlorides, iron, iodine, etc.
- 14) Inborn errors of metabolism
- 15) Hormones - Definition, functions.
- 16) Blood and cerebrospinal fluid, function.
- 17) Urine - formation, renal function test.
- 18) Liver function test.

Unit II Immuno haematology & Blood Banking Technology

- 1) Historical Aspect.
- 2) Human blood group antigens, inheritance antibodies and secretors.
- 3) ABO Blood groups system sub groups source of antigens type of antibodies.
- 4) Rh Blood group system.
- 5) Other Blood group system.
- 6) Cross matching.
- 7) Coombs tests
- 8) Blood transfusion procedure.
- 9) Complication of blood transfusion.
- 10) Haemolytic disorders of Newborn and exchange transfusion.
- 11) Blood collection :
 - a) Selection & screening of donor, b) Collection of blood, c) Various anticoagulants used, d) Storage of blood.
- 12) Cell separation, and transfusion of various components of blood .
- 13) Organization, operation and administration of blood bank.

Unit III Histotechnology

- 1) Introduction.
- 2) Cell, Tissue & their function.
- 3) Methods of examination of tissue and cells
- 4) Fixation of tissue.
 - a) Classification of fixatives, b) Simple fixatives, c) Micro anatomical fixatives, d) Cytological fixatives, e) Histochemical fixatives
- 5) Tissue processing.
 - a) Collection of specimen, b) Labelling and fixation, c) Dehydration, d) Clearing, e) Impregnation, f) Embedding.
- 6) Section Cutting.
 - a) Microtomes and microtomes knives, b) Techniques of section cutting, c) Mounting of sections, d) Frozen section.

- 8) Decalcification.
a) Fixation, b) Decalcification, c) Detection of end point, d) Neutralization and processing.

Unit IV Exfoliative cytology, museum techniques & Autopsy Technique

- 1) Exfoliative cytology
 - a) Types of specimen & preservation, b) Preparation and fixation of smears, c) Papanicolaou staining technique, d) Sex chromatin staining.
- 2) Museum Techniques.
 - a) Reception of specimen, b) Preparation and fixation, c) Restoration and fixation, d) Preservation, e) Presentation
- 3) Autopsy Technique.
 - a) Assisting in Autopsy, b) Preservation of organs & processing of the tissue.

Unit V Laboratory Managements & Ethics.

- 1) Role of laboratory in Health care, delivery.
 1. General
 2. Human health & Diseases.
 - a) Types of diagnosis, b) Process of diagnosis.
 3. Laboratory at different levels.
 4. Duties & responsibility.
- 2) Laboratory services in the health, delivery system in India.
 1. Laboratory services in India.
 2. The health administration system in India.
 - a) At the National level, b) At the state level, c) At the district level, d) At the village level, e) Voluntary Health organisations in India, f) Health programmes in India.
- 3) Laboratory planning.
 1. General principles.
 2. Laboratory goal.
 3. Operational data.
 - a) Market potential, b) Hospital Laboratory relation, c) Competitions, d) Laboratory trends.
 4. Planning at different levels.
 5. Guiding principles for planning hospital laboratory services.
 - a) Factors, b) Guiding principles for planning, c) Functional criteria, d) Operational demand, e) Section of a hospital laboratory, f) Common areas, g) Design aspect, h) Space requirement.
 6. Planning for a basic health laboratory.
- 4) Laboratory organization.
 1. General principles
 2. Components & functions of laboratory.
 3. Staffing the laboratory.
 4. Job descriptions.
 5. Job Specifications.
 6. Work schedule.
 7. Personal reassignment, and work load assesment.
- 5) Care of laboratory glassware, equipment and chemicals.
 1. General principles.
 2. Care & cleaning of glasswares.
 3. Making simple glass wares in the laboratory.
 4. Care of equipments and apparatus.
 5. Laboratory chemicals their proper use and care.
 6. Proper storage.
 7. Labelling.
- 6) Specimen handling.
 1. General principles
 2. Collection techniques and containers for specimen.
 3. Types of specimens.
 4. Specimen entry.
 5. Specimen transport.
 6. Specimen transfer and distribution & reassignment.
 7. Specimen Disposal.
 8. Specimen preservation.
- 7) Laboratory safety
 1. General principles.
 2. Inter-departmental communications.
 3. Public Relations.
 - a) Patients, b) Physicians, c) Nursing staff, d) Sales representatives, e) Other personal.
 4. Request and Report forms.
 5. Continuing education.
 6. Method of evaluation and selection.
 7. First aid.
 8. Safety measures.

- (a) Mechanical (b) Electrical (c) Chemical (d) Biological (e) Radiative
9. Specimen disposal.
 10. Specimen preservation
 - 8) Quality control.
 1. General principles.
 2. Non-analytical functions
 - a) Request specifications, b) Specimen specifications, c) Distribution of tests.
 3. Analytical functions.
 - a) Method, b) Equipment, c) Reagents and materials, d) Proficiency testing.
 - 9) Material managements.
 - a) Procurement, b) Identification and correspondence of materials with sources, c) Inventory control and analysis, d) Inspection and storage, e) Records & reports, f) Cost control g) Purchase and utilization of supplies.
 - 10) Ethics - General Principles.

PRACTICALS

Clinical Biochemistry

- 1) Diagnostic test of urine; collection & preservation, physical characteristic.
- 2) Normal constituents (a) Qualitative test of urea, uric Acid, creatinine, calcium phosphores, sodium chloride (b) Titrable acidity (c) Urea clearance & creatinine clearance.
- 3) Abnormal constituents of urine.
 - (a) Qualitative test for sugar, Albumin, ketone, blood, bile salts and pigments (b) Determination of sugar, albumin (c) Test for lactosuria, Pentosuria, fructosuria etc.
- 4) Blood/serum/plasma.
 - a) Collection and preservation of blood, b) Blood glucose test, c) G.T.T.
- 5) Non-protein Nitrogenous compounds - Determination of serum urea; uric acid; creatinine.
- 6) Determination of serum protein and A.G. Ratio, serum Electrophoresis and Zinc sulphate turbidity test.
- 7) Serum Electrolytes
- 8) Serum Enzymes.
 - a) Determination of SGOT and SGPT, b) Determination of Phosphatase (Acid & Alkaline)
- 9) Serum bilirubin total & Direct.
- 10) Serum lipids: Cholesterol, Triglyceride, HDL & LDL.
- 11) Other body fluid.
 - (a) Gastric juice: HCl, Bilepigment, bilesalt and starch.
 - Free and total Acidity
 - Gastric function test.
 - (b) Cerebro spinal fluid, sugar proteins, chloride pandy's test.

II. Immuno haematology & Blood Banking Technology

- 1) ABO grouping a) Slide technique (b) Tube technique.
 - 2) Cross matching methods of major & minor cross matching.
 - 3) Rh typing
 - a) Rapid tube test, b) Slide Anti D, c) One stage albumin technique, d) Two stage albumin technique.
 - e) Coombs antihuman globulin.
 - 4) Coombs test.
 - a) Direct coombs, b) Indirect coombs.
 - 5) Donor's screening and selection.
 - a) Identification, b) Recording Haemoglobin estimation, c) Grouping and typing of donor's blood, d) Ruling out transfusion transmitted diseases.
 - 6) Drawing of blood.
 - a) Asepsis, b) Reassurance, c) Venipuncture and Collection, d) Care of donor.
 - 7) Blood Storage
 - a) Anticoagulant preparation, b) Recording the details of storage of blood, c) Maintenance, cleaning of various equipments used in blood bank.
- Field Work :- Visit to :- Reference blood group center, Blood Bank.

III. Histotechnology

- 1) Fixation processing, embedding and section cutting and preparation of slides.
- 2) Sharpening of the knife.
- 3) Preparation of adhesives to fix the section on slide.

IV. Exfoliative cytology, museum techniques & Autopsy Technique

- 1) Preparation & fixation of cytology smears
- 2) Papanicolou staining technique.
- 3) Museum working, mounting, preservation and maintenance of museum specimens (Mounting in museum laboratory)
- 4) Visit to Autopsy Room to familiarise the working system.

V. Laboratory Management & Ethics

N.B. :- Each topic will have at list one practical.

The project / field work involving visit to atleast 10 different institutions / pathology labs. / hospitals units of related to the subjects and critical analysis of these Units should be submitted for diploma course.

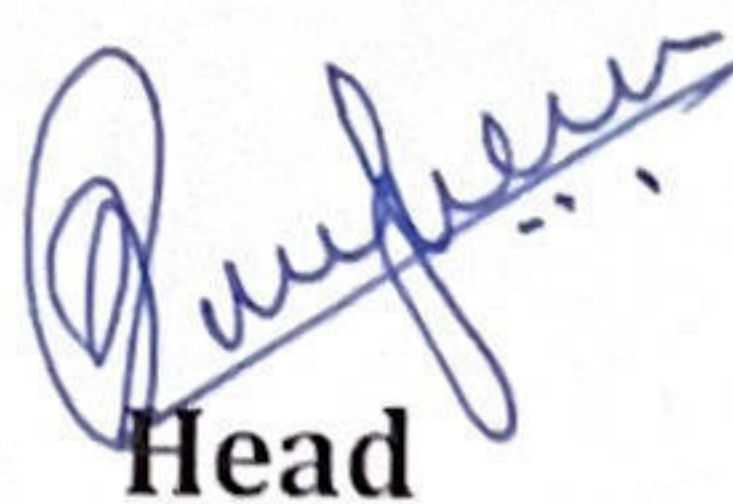
Shri. R.L.T College of Science, Akola
Department of Microbiology and Biochemistry
Time-Table for CCLT and DCLT
(2021-22)

Day	CCLT (DT)	DCLT (SAT)
Monday		2-4 PM
Tuesday	12-2 PM	
Wednesday		2-4 PM
Thursday	12-2 PM	
Friday		2-4 PM
Saturday	12-2 PM	

Where,

DT: Divya Thotange

SAT: Sandeep Toshniwal


Head

Department of Microbiology & Biochemistry

The B.G.E. Society's
Shri R.L.T College of Science, Akola

Department of Microbiology/Biochemistry

Career Oriented Program

Notice for CCLT/DCLT Examination (2021-2022 Batch)

It is hereby informed to all concerned students that, theory and practical examination of CCLT and DCLT is scheduled as per following time table. Examination Pattern for Certificate and Diploma Course in Clinical Laboratory Technology (CCLT and DCLT) is of 200 marks. Mode of examination will be offline and descriptive type.

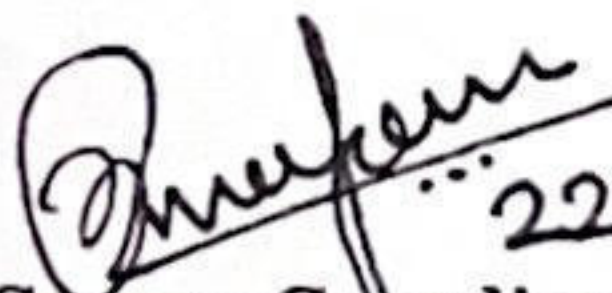
Distribution of Marks

1. Theory Examination	:	100 marks
2. Practical Examination	:	50 marks
3. Project Report	:	50 marks

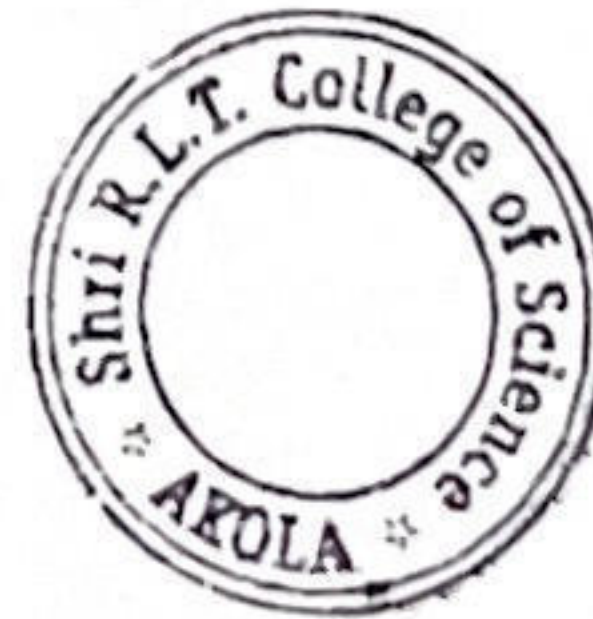
Total Marks: 200

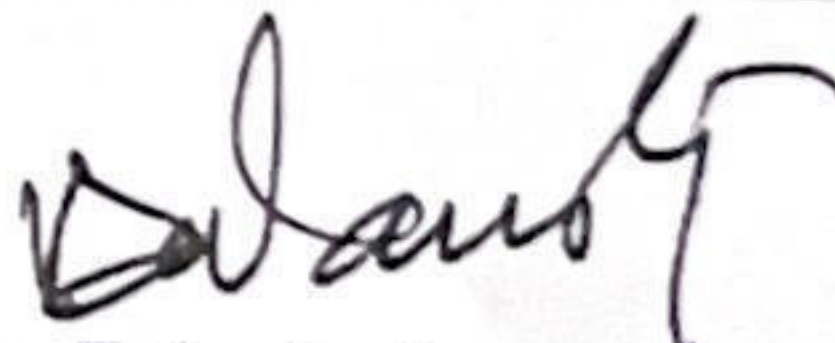
- For theory paper there will be 4 descriptive questions on each unit (Total 20 questions on 5 Units) based on the prescribed syllabus. Each question will carry 5 Marks.
- Practical examination will be offline including experiment performance, record submission and viva.
- **For project report submit a report on "Basic instrumentation and procedures in Pathology laboratory".**
- Project report should be submitted in handwritten hardcopy before 6th may 2022 in Department of Microbiology.

Sr. No	Course	Theory Exam Date	Practical Exam Date	Time
1	CCLT	06/05/2022	07/05/2022	9:00 Am to 12:00 Noon
2	DCLT	07/05/2022	06/05/2022	9:00 Am to 12:00 Noon


22/04/2022
Course Coordinator

Dr. H. S. Malpani
Asstt. Professor & Head
Dept. of Microbiology
Shri R.L.T. College of Science, Akola




Principal
Principal
Shri R.L.T. College of Science
Civil Lines, AKOLA (M.S.)

Shri. R.L.T College Of Science, Akola.

Diploma Course In Clinical Laboratory Technology (DCLT)

List Of The Students Of Batch 2021-2022

Sr. No	Name of Students	Batch	Category
1	Anuja Ganesh Bhatkar	B1	OBC
2	Anushka R. Khande	B1	OBC
3	Apeksha B. Dandi	B1	SC
4	Arpita Subhash Pophale	B1	OBC
5	Bhagyashri Sanjay Harne	B1	OBC
6	Digvijay Ram Kamble	B1	OPEN
7	Gayatri Anil Tayade	B1	OBC
8	Jyoti P Gwalani	B1	OPEN
9	Kalyani Vishnu Ingale	B1	OBC
10	Kiran G Tarole	B1	SBC
11	Krishna Rajesh Kulkarni	B1	OPEN
12	Manmeet Singh Relusinghani	B1	OPEN
13	Mansi V. Galani	B1	OPEN
14	Mayuri Ranjit Deshmukh	B1	SEBC
15	Pooja Sanjay Raut	B1	OBC
16	Sakshi Mulchand Takrani	B1	OPEN
17	Sakshi Vinod Gawai	B1	SC
18	Shradha Shivmangal Dongre	B1	OBC
19	Shruti Shripad Deshmukh	B1	OPEN
20	Tuba Urooj	B1	OBC
21	Vaishnavi Anil Bagule	B1	NT
22	Vaishnavi Rajesh Rudrakar	B1	OBC
23	Achal Arun More	B2	SC
24	Achal Devendra More	B2	OBC
25	Arati Baburao Mahale	B2	OBC
26	Asma Anjum Fayyaz Ahmad	B2	OPEN
27	Divesh G Mate	B2	OBC
28	Divya Ramdas Gawai	B2	SC
29	Jagruti Navinchandra Banot	B2	OPEN
30	Jyoti Shyam Pitale	B2	SC
31	Kshitija Ram Mule	B2	OBC
32	Manali D. Dhoran	B2	OBC
33	Mahek P.M. Irfan J	B2	NTB
34	Nandini Ram Pitale	B2	SC
35	Pratiksha G. Deshmukh	B2	OPEN
36	Renuka Chandarshekar Gole	B2	OBC
37	Renuka Haribhau Borde	B2	OBC
38	Roshani Santosh Tiwari	B2	OPEN
39	Ruchita A. Khodke	B2	SBC
40	Sakshi Sanjay Girhe	B2	OBC
41	Sakshi Santosh Katole	B2	OBC
42	Sakshi Mahadev Dhangare	B2	OBC
43	Sakshi Raju Raut	B2	OBC
44	Shital Sunil Gaikwad	B2	OBC
45	Snehal Dadarao Wankhade	B2	SC

Sr. No	Name of Students	Batch	Category
46	Suvarna Anil Shitre	B2	OBC
47	Vaishnavi C. Hirudkar	B2	OBC
48	Vaishnavi Ravindra Damdhar	B2	OBC
49	Achal A. Tayade	B3	SC
50	Aniket Gajanan Raut	B3	OPEN
51	Avanti Milind Deshmukh	B3	OPEN
52	Harshali S. Jadhao	B3	OPEN
53	Harshada B. Nawkar	B3	OBC
54	Janhavi Nitin Mulay	B3	OPEN
55	Kartik Sanjukumar Dhawale	B3	SEBC
56	Krishna D. Bagadiya	B3	OPEN
57	Kunika H. Parmar	B3	OBC
58	Megha Laxman Raut	B3	OBC
59	Mohoni Sagrao Thorat	B3	OBC
60	Nikita R. Thete	B3	OBC
61	Shantanu S. Wawge	B3	OBC
62	Shivani Umesh Chatarkar	B3	OBC
63	Shruti Vijay Gore	B3	OPEN
64	Sejal Vijay Badode	B3	OBC
65	Vaidehi Sudhir Kulkarni	B3	OPEN
66	Vaishnavi R. Datir	B3	OBC
67	Vaishnavi Suresh Raut	B3	OBC
68	Vaishnavi S. Jadhao	B3	OPEN
69	Yogini P. Raut	B3	OBC
70	Yukta K. Amodkar	B3	OBC
71	Almas NaazShakil Shah	B5	OBC
72	Dnyaneshwari D. Wavkar	B5	OBC
73	Prajakta Gajanan Lavhale	B5	SBC
74	Punam D. Bhawane	B5	OBC
75	Sana Firdoos Mushtaque Khan	B5	OPEN
76	Komal Bobade	B1	OBC

A-7843

Draft Scheme of Examination for the Certificate/Diploma/Advanced Diploma course for the Subject Clinical Laboratory Technology under the scheme of Career Oriented Programme by the U.G.C.

I. Preamble; Introduction, Objective, Eligibility scheme per year. Teaching Scheme (period per week) & Examination scheme.

I Certificate Course

Paper-I

- Unit I Anatomy
- Unit II Physiology.
- Unit III Biochemistry & Elementary clinical biochemistry.
- Unit IV Microbiology
- Unit V Haematology & Clinical pathology

Practicals :- Based on theory paper.

II Diploma Course.

Paper-II

- Unit I Clinical Biochemistry
- Unit II Immunohaematology & Blood Bank Technology
- Unit III Histo technology
- Unit IV Exfoliative cytology, museum techniques & Autopsy Technique
- Unit V Laboratory Management & Ethics

Practicals :- Based on theory paper.

III Advanced Diploma Course.

Paper-III

- Unit I Immunology and Serology.
- Unit II Parasitology, Mycology, and Virology.
- Unit III Advance Techniques & Future Trends in Biochemistry, Microbiology and Clinical Pathology.
- Unit IV Advance Techniques and future Trends in Haematology, Histotechnology and Molecular diagnostic techniques.
- Unit-V Computer Applications

Practicals :- Based on theory paper.

Draft Syllabus of Examination for the Certificate/Diploma/Advanced Diploma course for the Subject Clinical Laboratory Technology under the scheme of Career Oriented Programme by the U.G.C.

Preamble : To make the current Indian higher education system more relevant & carrier oriented with focus on quality & excellence.

Introduction :- Knowledge; skills; and aptitude for gainfull employment in wage sector in general and self employment in particular.

Objective :- Skill enhancing.

A) Eligibility :-

- 1) **Certificate Course :** A Student should have passed 12th standard examination of Maharashtra State Board of Secondary and Higher Secondary Education in Science stream or an examination recognised as equivalent thereto and should have admitted to B.Sc.Part-I / B.Com.Part-I / B.A.Part-I.
- 2) **Diploma Course :** A Student should have passed Certificate Course in Clinical Laboratory Technology.
- 3) **Advanced Diploma Course :** A Student should have passed Diploma Course in Clinical Laboratory Technology.

B) Teaching scheme (per course) :-

150 Theory periods	=150	
50 Practical x 3 periods each	=150	
Total	300 Periods	= 20 Credits.

Fieldwork/Projectwork/Training (3 Hrs x 50)= 150 Hrs. = 10 Credits

Total 30 Credits in a year.

I Certificate course = 30 credit	Ist year
II Diploma course = 60 credits (30 earned during certificate course) ..			IIInd year
III Advanced diploma course = 90 credits (30 in certificate & 30 in .. diploma = 60 earned)			IIIrd year

C) Examination Scheme (every year) :-

Theory	:	70 Marks 3 Hrs.
Practical	:	30 Marks 4 Hrs.
Project/Fieldwork	:	50 Marks

Minimum Marks for passing : An examinee must obtain in order to pass the examination 35% marks for theory and practicals separately.



संत गाडगे
Imp. document.
AMB
30/4/07

SANT GADGE BABA
AMRAVATI UNIVERSITY
AMRAVATI - 444602
(M.S.)

☎ : 2662206, 2662207, 2662208, 2662249, 2662358
website : www.amtuni.com

FAX NO. 0721-2660949, 2662135

GRAM AMUNI

No.SGBAU/7-D/6/71/ 317
107

Date :

20 APR 2007

To,
The Secretary,
Department of Higher Education,
Government of Maharashtra,
Mantralaya Annexe,
Mumbai-32.

Subject : Sanction of Courses under the UGC scheme of " Career Oriented Programme
2006-07-under plan" to the colleges affiliated to the University.

Sir,

Proposals of the colleges for " Introduction of Career Oriented Courses at first-degree level, were recommended by the University to the UGC under the UGC scheme. The UGC has granted permission to the following colleges for Career Oriented Courses at first-degree level and also granted financial assistance for this purpose, copy of which is enclosed herewith for your reference.

Sr. No.	Name of the Colleges	Course Approved by UGC	Fin. Assistance Sanction
1	Vidnyan Mahavidyalaya, Malkapur, Distt. Buldana	Water Quality and Soil Testing	7.00 lakh
2	Late N.A. Deshmukh Arts & Comm. College, Chandurbazar, Distt. Amravati	Computer and information Tech.	7.00 lakh
3	Smt. Kesharbai Lahoti M.V. Amravati	Fashion Designing	5.00 lak
4	Lokmanya Tilak M.V., Wani Distt. Yavatmal	Functional English	5.00 lakh
5	L. B. Aney Mahila M.V., Yavatmal	Fashion Designing	5.00 lakh
6	M. Fule Arts, Commerce & Sitarmaji Choudhari Science College, Warud, Distt. Amravati	Biomedical Laboratory	7.00 lakh
7	Matoshri Vimlabai Deshmukh Mahavidyalaya, Amravati	English Grammar and Communicative Skills	5.00 lakh
8	Nehru Arts & Commerce College, Nerparsopant, Distt. Yavatmal	Accounting & Auditing	5.00 lakh
9	R.A.Arts & Shri M.K.Commerce & Shri S.R.Rathi Science Mahavidyalaya, Washim	E-Commerce	5.00 lakh
10	Swantantra Sainik Late K.R.Innani Mahavidyalaya, Karanaja(Lad), Washim	Taxation	5.00 lakh
11	S.P.M.Late Tatyasaheb Mahajan Arts & Commerce College, Chikhli, Dist.Buldana	E-Commerce	5.00 lakh
12	Smt. R.Sarda Arts & Commerce College, Anjangaon Surji, Distt. Amravati	Translation Proficiency	5.00 lakh
13	Vidya Bharati Mahavidyalaya, Amravati	Insurance	5.00 lakh
14	Smt. Vatsalabai Naik Mahila Mahavidyalaya, Pusad, Dist. Yavatmal	Functional English	5.00 lakh

Contd...2/....

15	Y.D.V.D. Arts & Commerce College, Teosa, Distt. Amravati	Finance Management & Auditing	5.00 lakh
16	Takshashila Mahavidyalaya, Amravati	Communicative Skills in English	5.00 lakh
17	Savitribai Phule Mahila Mahavidyalaya, Washim	Communicative Skills in English	5.00 lakh
18	S.Khandelwal Arts, Science & Commerce College, Akola	Biomedical Instrumentation	7.00 lakh
19	Arts & Science Mahila Mahavidyalaya, Mehkar, Distt. Buldana	Fashion Designing	5.00 lakh
20	Phulsing Naik Mahavidyalaya, Pusad, Distt. Yavatmal	Non-Conventional energy System	7.00 lakh
21	Adarsha Science, J.B.Arts & Commerce Mahavidyalaya, Dhamangaon(Rly.), Distt. Amravati	Web Designing & Office Automation	5.00 lakh
22	B.B.Arts, N.B. Commerce & B.P.Science College, Digras, Distt. Yavatmal	Vermiculture	7.00 lakh
23	Bharatiya Mahavidyalaya, Amravati	Clinical Laboratory Technology	7.00 lakh
24	Bar. R.D. Arts & Smt. I. K. Commerce & N.K.D. Science College, Badnera-Amravati	Sericulture	7.00 lakh
25	Dr. Babasaheb Ambedkar Mahavidyalaya, Amravati	Applied sociology	5.00 lakh
26	G. S. Gawande Arts & Commerce College, Umarched, Distt. Yavatmal	Agriculture Management	5.00 lakh
27	Ghulam Nabi Azad Arts & Commerce College, Barshitakli, Distt. Akola	Fashion Designing Computer Application	10.00 lakh
28	J.D.Patil Sangludkar Mahavidyalaya, Daryapur, Distt. Amravati	Fresh Water Fish Culture	7.00 lakh
29	K.N. College of Arts, Commerce, Karanja(Lad), Distt. Washim	Banking	5.00 lakh
30	Abasaheb Parvekar Mahavidyalaya, Yavatmal	Communication Skill in English	5.00 lakh
31	Arts & Commerce College, Motala, Distt. Buldana	Accountancy and Auditing	5.00 lakh

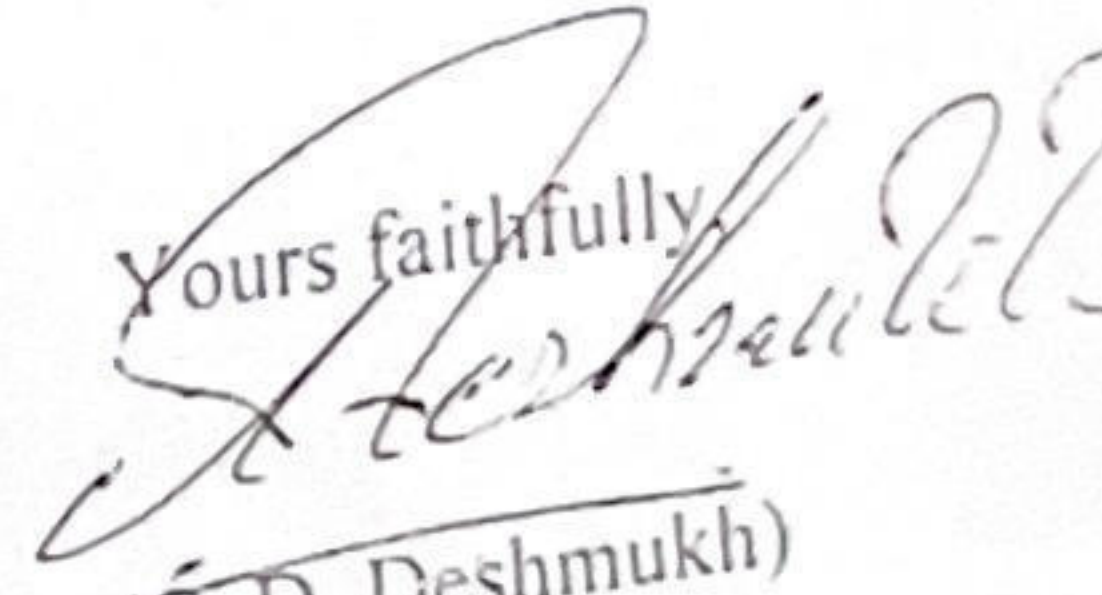
Contd.....3/-

32	G. S. Tompe Arts & Commerce Mahavidyalaya, Chandur Bazar, Distt. Amravati	Translation Proficiency Information and Computer Technology	12.00 lakh
33	B. S. Patil Mahavidyalaya, Achalpur, Paratwada, Distt. Amravati	Rural Handicraft	5.00 lakh
34	R. L. T. College of Science, Akola	Clinical Technology Laboratory	7.00 lakh
35	Shri Shivaji College, Akot, Distt. Akola	E-Commerce	5.00 lakh

The above courses sanctioned by the UGC are permanently on non-grant basis and there is no financial burden on the Government. It is requested to kindly grant permission for introduction of the courses to the said colleges at the earliest, so that the courses could be introduced from this academic session.

Thanking you.

Encl : Copies of the UGC letters.

Yours faithfully,

(C. D. Deshmukh)
Registrar

Copy forwarded for information to :

- 1] The Principal ,
- 2] Dy. Registrar (Academic), Sant Gadge Baba Amravati University
- 3] Asstt. Registrar (College), Sant Gadge Baba Amravati University

AMB
29/01/07 RIT College of
Dr Ali Science Akola
Ward No. 3548
Dated 29.09.2007



UNIVERSITY GRANTS COMMISSION
CAREER ORIENTED PROGRAMME
35- FERROZESHAH ROAD
NEW DELHI-110 001

F. No. 4-194/2007 (VE/COP)

February, 2007
26 FEB 2007

The Under Secretary (FD-III)
University Grants Commission,
New Delhi- 110002.

Sub: - Release of Grants-in-aid to R.L.T. College of Science, Akola for Career Oriented Programme 2006-07- under plan.

Sir,

With reference to the proposal submitted by R.L.T. College of Science, Akola under the UGC scheme of Career Oriented Programme. I am directed to convey the approval of the University Grants Commission for starting the following Career Oriented Courses in the above mentioned College from the academic year 2007-08:

Courses Approved	Seed Money (Rs. in lakh)
<u>Science</u> 1. Clinical Laboratory Technology	7.00
Total	7.00

I am also directed to convey the sanction of the University Grants Commission for payment of Rs. 7,00,000/- (Rupees Seven lakhs only) to R.L.T. College of Science, Akola as one time grant (Seed Money) under the scheme of Career Oriented Programme.

The assistance available in this programme is only in the form of a one-time as "Seed Money". The amount may be utilized for the purchase of books and journals, augmentation of laboratory facilities, equipment and payment of remuneration to the Guest faculty only.

The terms & conditions of the approval and grant released are as per the guidelines of the scheme.

1. The sanctioned amount is debitable to the major Head 3.1 (Career Orientation to Education). The above sanction is valid for payment during the current financial year 2007-08.
2. The amount of grant shall be drawn by the Under Secretary (Drawing & Disbursing Officer), University Grants Commission on the Grants-in-aid bill and shall be disbursed to and credited to the Principal R.L.T. College of Science, Akola through Demand Draft/Mail Transfer.
3. The grant is subject to the adjustment on the basis of Utilization Certificate in the prescribed proforma submitted by the University/College/Institution.
4. The University/College shall maintain proper accounts only on approved items of expenditure.
5. The Utilization Certificate to the effect that the grant has been utilized for the purpose for which it was sanctioned shall be furnished to the University Grants Commission as early as possible after the close of the current financial year.
6. The assets acquired wholly or substantially out of the University Grants Commission grant shall not be disposed or encumbered or utilized for the purposes other than those for which the grant was given, without proper sanction of the University Grants Commission and should, at any time the college ceases to function, such assets shall revert to the University Grants Commission.
7. A Register of Assets acquired wholly or substantially out of the grant shall be maintained by the University in the prescribed form.
8. The grantee institution shall ensure the Utilization of grants-in-aid for which it is being sanctioned/paid. In case non-utilization/part utilization, the simple interest @ 6% per annum as amended from time to time on unutilized amount from the date of drawl to the date of refund as per provisions contained in General Financial Rules of Govt. of India will be charged.

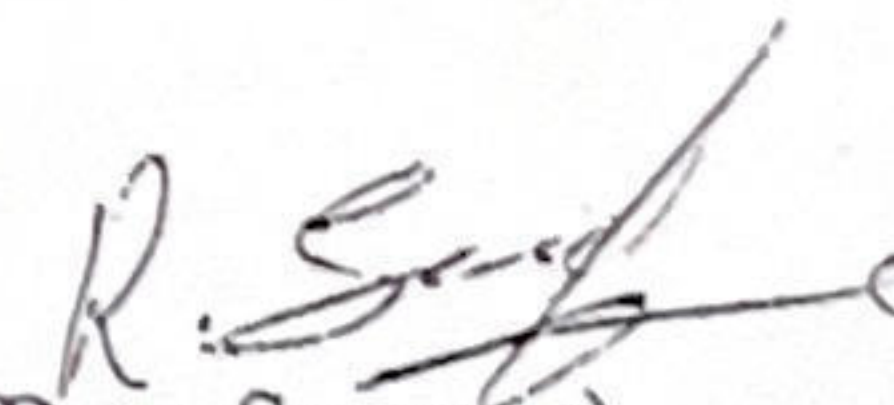
9. The interest earned by the University/College/Institute on this grants in aid shall be treated as additional grant and may be shown in the U.C./Statement of expenditure to be furnished by grantee institutions.
10. The University/College shall follow strictly all the instructions issued by the Govt. of India from time to time with regard to reservation of posts for scheduled Caste and Scheduled Tribes.
11. The University/College shall fully implement the Official Language Policy of Union Govt. and comply with the Official Language Act, 1963 and Official Language (use for officially purpose of the Union) Rules, 1976 etc.
12. This Sanction issues in exercise of the delegation of powers vide Commission office order No.25/92 dated May.01, 1992.
13. The funds to the extent are available under the scheme and has been noted in BCR for the year 2007-08 at S. No. _____ Page No. _____.

Yours faithfully,

(Dr. C.S. Meena)
Joint Secretary

Copy forwarded for information and necessary action to:

1. ✓ The Principal, R.L.T. College of Science, Akola - To intimate the receipt of this letter as well as the receipt of the sanction grant.
2. The Secretary to the Government of Maharashtra Deptt. of Education, Mumbai.
3. The Registrar, Amravati University, Amravati.
4. Office of Director, General, Audit General Revenues, AGCR Bldg., I.P. Estate, New Delhi.
5. Guard File, UGC, New Delhi.


(Ram Swarup)
Section Officer



PRINCIPAL
R.L.T. College of Science
AKOLA

FROM : SANDESH STD PCO AKOLA

FR. NO. : 0724 2420100

116 . 05 2007 05-1001 71

PLT College of
Science Akola
In Ward No. 387
dated..... 15/11/07

महाराष्ट्र शासन

- ब्रमांक:-एनजीसी २००७/(१७३/०७)/मशि-३
- उच्च व तंत्र शिक्षण विभाग,
- मंत्रालय विस्तार भवन, मुंबई-४०००३२
- दिनांक - २६ जुलै, २००७

प्रति,
कुलसचिव,
संत गाडगेबाबा विद्यापीठ,
अमरावती.

विषय:- युजीसी योजनेअंतर्गत व्यावसायिकमुख कार्यक्रम शैक्षणिक वर्ष २००६-०७
व्यावसायिक अभ्यासक्रमांना मान्यता

- संदर्भ:- १) विद्यापीठ अनुदान आयोगाचा पत्र क्र.एफ क्र.४-१५९ ते १६७, १६९ ते १९२,
१९४ व १९५ / २००७ (VE/COP), दि. २६ फेब्रुवारी २००७ चे पत्र
२) आपले पत्र क्र.एसजीबीएयु, ७-डी / ७१ / ३७९, दि.२४.०५.२००७

महोदय,

आपल्या विद्यापीठमाफत संदर्भाने पत्राने सादर केलेला प्रस्ताव विचारात घेऊन आपल्या
विद्यापीठाच्या अखत्यारीतील खालील महाविद्यालयास त्याच्या नावासमोर दर्शावलेले विद्यापीठ अनुदान आयोग
पुस्तकृत व्यावसायिक अभ्यासक्रम सुरु करण्याबाबतचा प्रस्ताव सादर केला आहे.

अ. क्र.	महाविद्यालयाचे नांव	विषय	विद्यापीठ अनुदान आयोगाने मंजूर केलेला निधी (रु. लाखात)
१	विज्ञान महाविद्यालय, भलकापूर, जि. बुलढाणा ४४३१०१.	वॉटर ड्यालीटी अॅण्ड सॉइल टेस्टिंग	७.००
२	के. एन. ए. देशमुख आर्ट्स आणि कॉमर्स कॉलेज चांदुरबाजार, जि. अमरावती	कॉम्प्युटर अॅण्ड इन्फॉर्मेशन टेक्नॉलजी	७.००
३	श्रीमती केसरीबाई लाहोटी महाविद्यालय, अमरावती ४४४६०३	फॅशन डिजाईनिंग	५.००
४	लोकमान्य टिळक महाविद्यालय, वणो जि. यवतमाळ	फंक्शनल इंग्लिश	५.००
५	एल. बी. अणे महिला महाविद्यालय, यवतमाळ ४४५००१.	फॅशन डिजाईनिंग	५.००
६	म. फुले आर्ट्स, कॉमर्स अॅण्ड सितागमजी चौधरी सायन्स महाविद्यालय, वरुड जि. अमरावती ४४४९०६.	बायोटेक्नॉलॉजी लॅबोरेटरी	१९.००

अ. क्र.	महाविद्यालयाचे नांव	विषय	विद्यापीठ अनुदान आयोगाने मंजूर केलेला निधी (रु. लाखात)
			५.००
७	मातोश्री विमलाबाई देशमुख महाविद्यालय, अमरावती ४४४६०३	इंग्लिश प्रागर अण्ड कम्प्युनिक्टीव्ह स्कॉल्स	५.००
८	नेहरु आर्ट्स अण्ड कॉमर्स कॉलेज, नरसापंत, जि. यवतमाळ	अकॉर्टींग अण्ड ऑडिटिंग	५.००
९	आर. ए. आर्ट्स, श्री. एम. के. कॉमर्स अण्ड श्री. एस. आर. राठे सायन्स महाविद्यालय, वाशिम	ई-कॉमर्स	५.००
१०	स्वातंत्र्य सेनिक के आर. इनानी महाविद्यालय, कारंजा (लाड), वाशिम	टॅक्सेशन	५.००
११	एस. पी. एम. लॅट तात्यासाहेब म्हळ्जन आर्ट्स अण्ड कॉमर्स कॉलेज, चिखली, जि. बुलढाणा ४४३२०१.	ई-कॉमर्स	५.००
१२	श्रीमती आर. सारडा आर्ट्स अण्ड कॉमर्स कॉलेज, अंजनगावसुर्जी, जि. अमरावती	ट्रान्सलेशन प्राफीशियन्सी	५.००
१३	विद्या भारती महाविद्यालय, अमरावती	इन्शुरन्स	५.००
१४	श्रीमती वत्सलाबाई नाईक महिला महाविद्यालय, पुसद, जि. यवतमाळ	पॅन्शनल इंग्लिश	५.००
१५	वाय. डी. व्ही. डी. आर्ट्स अण्ड कॉमर्स कॉलेज, तिवसा, जि. अमरावती	पॅन्शन मॅनेजमेंट अण्ड ऑडिटिंग	५.००
१६	तक्षशीला महाविद्यालय, अमरावती	कम्प्युनिक्टीव्ह स्कॉल्स इन इंग्लिश	५.००
१७	सावित्रीबाई फुले महिला महाविद्यालय, वाशिम ४४४५०५.	कम्प्युनिक्टीव्ह स्कॉल्स इन इंग्लिश	५.००
१८	एस. खंडेलवाल आर्ट्स, सायन्स अण्ड कॉमर्स कॉलेज, अकोला	बायोमॅडीकल इन्स्ट्रुमेंटेशन	७.००
१९	आर्ट्स अण्ड सायन्स महिला महाविद्यालय, मेहेकर, जि. बुलढाणा	फॅशन डिझाईनींग	५.००
२०	फुलसिंग नाईक महाविद्यालय, पुसद, जि. यवतमाळ	नॉन फॅन्क्शनल एनर्जी सिस्टीम	७.००
२१	आदर्श सायन्स, जे. वी. आर्ट्स अण्ड कॉमर्स महाविद्यालय, धामणगांव (रत्ने), जि. अमरावती	वेब डेव्हॉपिंग अण्ड ऑफिस ऑटोमेशन	५.००
२२	बी. बी. आर्ट्स, एन. बी. कॉमर्स अण्ड बी. पी. सायन्स कॉलेज, दिग्रस, जि. यवतमाळ	वॉर्किंगव्हर	७.००
२३	भारतीय महाविद्यालय, अमरावती	विलानिफ्ल लॅबॉरेटरी टेक्नॉलॉजी	७.००

अ. क्र.	महाविद्यालयाचे नाव	विषय	विद्यापीठ मन्दीराच्या आयोगाने मंजूर केलेला निधी (रु. लोखात)
२४	बी. आर. डी. आर्ट्स अँड श्रीमती आय. के. कॉमर्स अँड एन. के. डी. सायन्स कॉलेज, बडनेरा-अमरावती	सोशल क्लचर	७.००
२५	डॉ. बाबासाहेब ओबडकर महाविद्यालय, दर्यापूर जि. अमरावती	अप्लाइड सोशियोलॉजी	५.००
२६	जी. एस. गावंडे आर्ट्स अँड कॉमर्स कॉलेज, उमरवडे, जि. यवतमाळ	अंग्रेजी क्लचर रजि. गॅनेटिक्स	५.००
२७	गुलाम नबी आझाद आर्ट्स अँड कॉमर्स कॉलेज, ...	पेंशन हीदायती	११११
२८	ज. डी. पाटिल संगठनकार महाविद्यालय, दर्यापूर, जि. अमरावती	क्रेझ वॉटर फीश क्लचर	७.००
२९	के. एन. कॉलेज ऑफ आर्ट्स, कॉमर्स कारंजा (लाड), जि. धारवाड	बॅंकांग	५.००
३०	आबासाहेब पारवकर महाविद्यालय, यवतमाळ ४४५००१	कम्युनिकेशन स्कूल इन इंग्लिश	५.००
३१	आर्ट्स अँड कॉमर्स कॉलेज, मांढला, जि. बुलढाणा ४४३१०३.	अकॉउंटन्सी अँड ऑडीटींग	५.००
३२	जी. एस. टोपे आर्ट्स अँड कॉमर्स महाविद्यालय, चांदूरबाजार, जि. जळगाव	ट्रान्सलेशन प्राफेशनल अन्व्ही इन्टरनेशनल अँड कॉम्प्युटर टेक्नॉलॉजी	१२.००
३३	बी. एस. पाटील महाविद्यालय, अचलपूर, परतवाडा, जि. अमरावती	रुरल हॅडीक्राफ्ट	५.००
३४	आर. एल. टी. कॉलेज ऑफ सायन्स, अकोला	क्लिनिषल लॅबोरेटरी टेक्नॉलॉजी	७.००
३५	श्री. शिवाजी कॉलेज, अक्नेट, जि. अकोला	इ-कॉमर्स	५.००

२. उपरोक्त प्रस्तावास खालील अटीवर शासन मान्यता देण्यात येत आहे.

- सदर व्यावसायिक अभ्यासक्रम सुरु ठेवण्यासाठी संबंधित महाविद्यालयांना राज्यशासनाकडून आता किंवा भविष्यात कुठल्याही प्रकारचे आर्थिक अनुदान प्राप्त होणार नाही. संबंधित महाविद्यालय शासनाकडून आता किंवा भविष्यात उपरोक्त व्यावसायिक अभ्यासक्रम सुरु ठेवण्यासाठी कुठल्याही प्रकारचे आवती किंवा अनावती अनुदान मागणार नाही व सदर अभ्यासक्रम सुरु ठेवण्यात येतील असे इमोपत्र विद्यापीठमंडळी व सहसंचालक, उच्च शिक्षण अमरावती गान्धेवटे मण्डळ येथे.

-8-
SYLLABUS PRESCRIBED FOR CERTIFICATE COURSE IN
CLINICAL LABORATORY TECHNOLOGY
THEORY

B.Sc I

CLT

I: Anatomy

Anatomical structure and location/distribution of different part of human body with anatomical terms and planes.

- Gastro intestinal tract.
- Salivary glands, stomach, intestine.
- Liver, Gall bladder, spleen, pancreas
- Respiratory system
- Kidneys, Ureter, Bladder.
- Testes (male genital organ)
- Ovaries, Uterus, Vagina, Urethra.

II: Physiology

- Blood composition and function.
- Normal counts of blood cells and their function.
- Steps of coagulation, anticoagulants
- CSF
- Blood grouping, ABO and Rh typing.

Cardiovascular system.

- Heart structure and function.
- Blood vessels.
- Circulation
- Pulse, Blood pressure, Electrocardiogram.

Respiratory system.:

- Organs of Respiration.
- Transport of O₂ and CO₂ in the blood.

Excretory System:

- Functions of Kidneys.
- Functions of Glomerular tubules.
- Composition of normal and abnormal urine.

Digestive System :

- Function of stomach, saliva, gastric juice, pancreatic juice.

Endocrine Glands :

- Definition of endocrine glands, name and Hormones secreted.
- Action of hormones.

Reproductive System :

- Sex organs, male and female.
- Testes and ovaries.
- Contraceptives.

Unit III: Elementary Clinical Biochemistry

- Elementary knowledge, handling, maintenance, and care of analytical instruments.
 - a) Centrifuge
 - b) Balance
 - c) Colorimeter.
 - d) Definition, classification and examples of carbohydrates, proteins, and lipids.

Unit IV: Microbiology

1. Introduction to Microbiology, Morphological classification of Bacteria.
2. Cultivation of bacteria aerobic and anaerobic.
3. Culture media, types of media, special media.
4. Sterilization and Disinfection (Physical and Chemical methods)
5. Morphology and Pathogenicity of Staphylococci, Streptococci, Salmonella, Shigella and Vibrio.
6. Morphology, Pathogenicity and methods of isolation of Mycobacterium tuberculosis and Mycobacterium leprae.
7. Antimicrobial susceptibility test.
8. Preservation of stock cultures.

Unit V: Haematology and clinical pathology.

1. Introduction to Haematology.
2. Collection of blood - ways of collection.
3. Anticoagulants.
4. Red cell count - Haemocytometry.
5. White cell count - TLC
6. Differential white cell count. (DLC)
7. Absolute Eosinophil count.
8. ESR
9. Haematocrit - Packed cell volume (PCV)
10. Haemoglobin estimation.
11. Red cell indices MCV, MCH, MCHC.
12. Reticulocyte count.
13. Sickel cell preparation.
14. Osmotic Fragility test.

15. Preparation of Bone Marrow.
16. Morphology of Normal and Abnormal cells.
17. Coagulation test.
18. Bleeding time, clotting time.
19. Urine analysis (Normal constituents, Physical examination, chemical examination & Microscopic examination.)
20. Stool Examination (Normal and Abnormal constituents.)
21. C.S.F. Examination (Normal and Abnormal Cell counts and different counts.)
22. Semen Analysis : (Physical examination, Mortality and Morphology)
23. Blood grouping and Blood Banking.

PRACTICALS

Anatomy :

1. Study of permanent slides of cells and tissues.
2. Surface marking of body.
3. Skeletal system, bones and joints.

Physiology :

1. Microscope, usage, maintenance, cleaning and minor repair.
2. Osmotic fragility test.
3. Identification of RBC under microscope.
4. DLC, Platelets, Reticulocytes.
5. To obtain sample of plasma and serum.
6. Preparation of oxalate, citrate, fluoride and EDTA anti coagulant Bulbs.
7. Haematocrit (PCV)
8. Neubour's chamber, pipettes (RBC/WBC), western green pipettes.
9. Haemoglobin estimation (By Sahli's method)
10. Blood pressure and pulse
11. Examination of urine glucose and protein.
12. Record/Report writing.

Clinical Biochemistry :

1. Cleaning of Glassware.
2. Maintenance of laboratory instruments and cleaning.
 - i. Centrifuge.
 - ii. Colorimeter.
 - iii. Spectrophotometer.
 - iv. Microscope.
3. Estimation of serum Bilirubin, Blood Sugar, Blood Urea, Serum Creatinine, Uric acid, Cholesterol, Serum Acid phosphatase, Alkaline phosphatase, SGOT, SGPT, Serum Sodium/Potassium.
4. Qualitative and Quantitative estimation of urine sugar and protein.
5. C.S.F. protein, and sugar

Microbiology

1. Gram staining technique.
2. Acid fast staining (Z-N)
3. Motility by hanging drop method.
4. Cultivation of UTI isolates.
5. Culture and sensitivity test (Kirby-Bauer method)
6. Biochemical test (Glucose, Lactose, Mannitol, Indole, MR, V.P.Citrate)

Haematology and Clinical Pathology.

1. Haemoglobin estimation by Sahli's method.
2. R.B.C. count.
3. TLC
4. DLC
5. Platelet count
6. Reticulocyte count.
7. Bleeding time, clotting time.
8. Examination of blood smear (Peripheral smear)
9. Eosinophil count: LE cell test, E.S.R. sickel cell test.
10. Stool examination for ova, cyst, Amoeba, Exudate, fat globule.
11. Routine Urine analysis
12. Sputum Analysis.
13. Semen Analysis.
14. C.S.F. examination.
15. Bone Marrow smear Preparation.
16. Blood group: ABO and Rhfactor.

Field work / Project work : Project work / field work involving 90 hrs. minimum laboratory work and based on critical st of any one of the topics included in theory or practical should be completed for Certificate course. Project report of ab 30 pages be submitted.

Distribution of marks

1.	Two major Experiments (7 marks each)	20
2.	Two minor Experiments (3 marks each)	10
3.	Spotting	10
4.	Viva	10
5.	Practical record	10

Total Marks : 50

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LIST OF TOOLS AND EQUIPMENTS REQUIRED FOR CERTIFICATE / DIPLOMA / ADVANCED DIPLOMA COURSE IN CLINICAL LABORATORY TECHNOLOGY.

Microscope	02	Autoclave (Electric & gas operated)
Hot plate (Electrical)	04	Gas-cylinder with Bunsen burner.
Spirit Lamp.	06	Table centrifuge
Refrigerator	08	Colorimeter
Hot-air-oven	10	Waterbath
Ringer-Timer	12	Analytical balance.
Physical balance	14	Electronic Balance
Flamephotometer	16	Spectro Photometer
Fluorometer.	18	Vortex mixer.
Centrifuge	20	pH meter.
Hot air-blower.	22	Incubator.
Inspissator	24	Deioniser
Pipette Washer	26	Anaerobic jar
Vacuum pump	28	Hydrogen and CO ₂ Cylinder
Dressing drum	30	Water bath
Pressure cooker	32	VDRL Rotator
Kahn rack	34	Dreyer's rack
Electrophoresis apparatus	36	Seitz metal filter
Aluminium suitcase	38	Colony counter
Blood cell counter	40	Bohringer Balance (Rough)
Hot plate	42	Alarm time piece 1 hour ringer.
Haemometer (Helige/Sahli) Complete	44	Hemocytometer complete.
Rosenthal counting chamber.	46	ESR Rack
ESR Tubes (Westergen's)	48	Wintrobe's tubes.
Gas cylinder	50	Microscope lamp
Urinometer complete.	52	Beaker 50 ml, 100 ml, 250 ml.
Autopsy Striker	54	Drill Electric
Electric Sparker	56	Epidioscope
Grinder	58	Hot air Drier
Microtome	60	Stop Watch

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- Laboratory practical for beginners, P.Veskresensky, Mir publishes, Pervy Rizbsky Perulek, Moscow, USSR.
- Clinical chemistry in diagnosis and treatment, 3rd Edn. 1979. Noan P.Ziwa and P. R.Pannal, L.Loyds Luke (Medical books) LTd., 49 Newman, ST. London.
- Manual Cardiovascular diagnosis and therapy, Joseph S, Albert, James M. Ripps, Asian Ed., Little Brown & Company, Boston, Medical Services International Ltd., Tokyo.
- Fundamentals of Biochemistry - A.C. Deb, New Central Book Agency, 8/1 Chintamanidas Lane, Calcutta - 700 009.
- Principles of Biochemistry, 5th Edn. Mcraw hill Book Co., New York - A White P. Handler, E.L.Smith.
- Fundamentals of Biochemistry - J.L.Jain S. Chand & Co.LTd., Ramnagar, New Delhi 110 055
- Biochemistry - Data, S.P.Ottaway J.H.Barelliere Tindall and Csell London.
- Enzyme diagnosis in diseases of the Heart, Liver and Pancreas - Adolph and R Lorenz Hanhum S. Kargeer. A.G.P.O. (EBo): Ch. 4009 Basel, Switzerland.
- A Premier of water Electrolyte and acid base Syndromes - E Gold Reger, Indian Edn., K.M.Verghese Co, 7119, Bombay 400 031
- 1. Clinical Interpretation of Laboratory Test, 9th Edn., Francis Widmann. P.G.Publishing Pvt. Ltd., Singapore, Hongkong.
- 2. Practical clinical biochemistry, - A.H.Covenlock, M.Bell, William Heimann, Med. Book Ltd., London.
- 1. Clinical Biochemistry - Principles & Procedures - 4th Edn. Annino J.S. and R. N.
- 1. A short test book on Clinical biochemistry - Baron D.N. English Universities Press, London.
- 5. Clinical Chemistry for small hospitals, Laboratory - Reynold M.D.
- 5. Micro Analysis in Medical Biochemistry, 6th Edn., Wooton, I.D.P. Churchill Livingstone, Edinobourgh & London.
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- 8. Clinical Laboratory Methods, 5th Edn, - Bauer J.D., Ackeramann, P.G. land Toro GI, the C.V. Mobsy C., St. Louis.
- 9. Clinical Technician's Ready reference Hand book, 2nd Edn. Sugar/Bauman Mcgraw hill Book Co, New York.

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24. Fundamental of clinical Chemistry, 2nd Edn - W.N. Saunders Co., London.

25. The Test book of quantitative analysis, 3rd Edn., Longmans Green London.

26. Clinical Chemistry Principles and Techniques 2nd Edn. Henry R.J., Cannon D.C. and Wakelman J.M. Harper and P
York, San Fransisco, London.

27. Chemical Methods in Clinical Medicine 4th Edn., - Harrison G.A. Churchill, London.

28. Chromatographic and electrophoretic techniques, Clinical and Biochemical Applications 2 Vols. 2nd Ed. Heinema
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6. Moore G.S., Jaciow D.M. - Mycology for Clinical laboratory, Reston Publishing company a Prentice-Hall Comp
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Shri. R.L.T College of Science, Akola
Department of Microbiology and Biochemistry

Time-Table for CCLT and DCLT

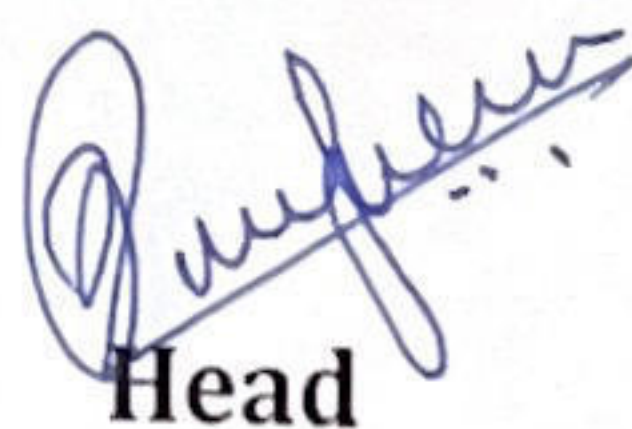
(2021-22)

Day	CCLT (DT)	DCLT (SAT)
Monday		
Tuesday	12-2 PM	2-4 PM
Wednesday		2-4 PM
Thursday	12-2 PM	
Friday		2-4 PM
Saturday	12-2 PM	

Where,

DT: Divya Thotange

SAT: Sandeep Toshniwal



Head

Department of Microbiology & Biochemistry

The B.G.E. Society's
Shri R.L.T College of Science, Akola

Department of Microbiology/Biochemistry

Career Oriented Program

Notice for CCLT/DCLT Examination (2021-2022 Batch)

It is hereby informed to all concerned students that, theory and practical examination of CCLT and DCLT is scheduled as per following time table. Examination Pattern for Certificate and Diploma Course in Clinical Laboratory Technology (CCLT and DCLT) is of 200 marks. Mode of examination will be offline and descriptive type.

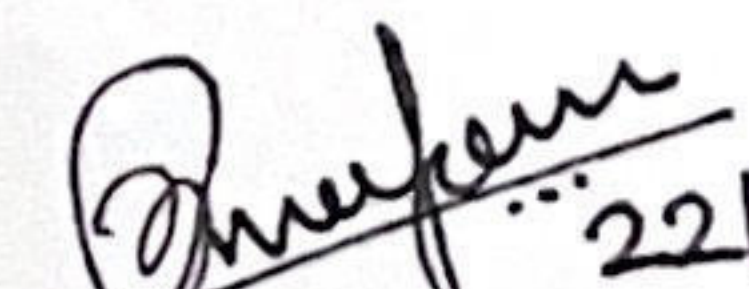
Distribution of Marks

1. Theory Examination	:	100 marks
2. Practical Examination	:	50 marks
3. Project Report	:	50 marks

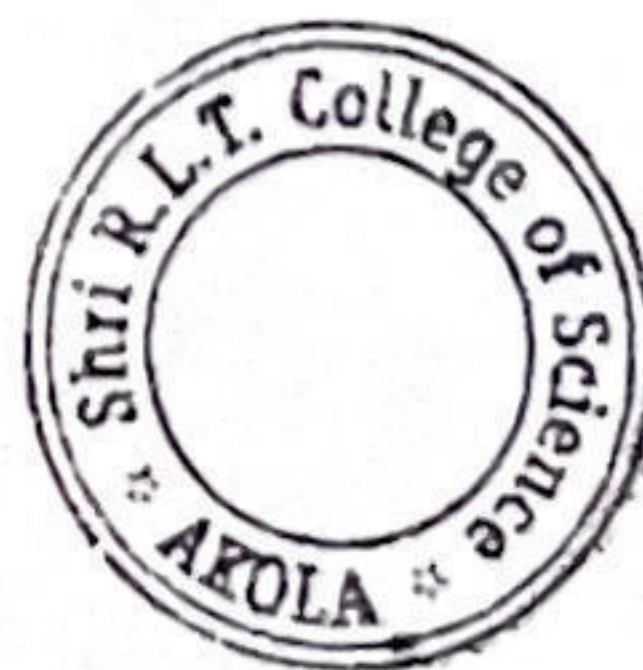
Total Marks: 200

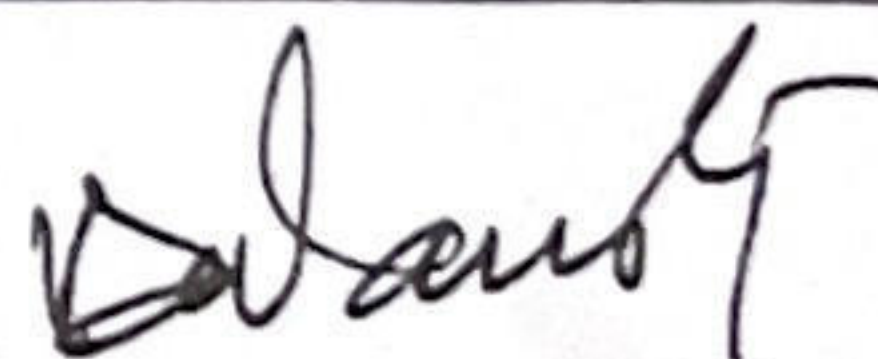
- For theory paper there will be 4 descriptive questions on each unit (Total 20 questions on 5 Units) based on the prescribed syllabus. Each question will carry 5 Marks.
- Practical examination will be offline including experiment performance, record submission and viva.
- For project report submit a report on "Basic instrumentation and procedures in Pathology laboratory".
- Project report should be submitted in handwritten hardcopy before 6th may 2022 in Department of Microbiology.

Sr. No	Course	Theory Exam Date	Practical Exam Date	Time
1	CCLT	06/05/2022	07/05/2022	9:00 Am to 12:00 Noon
2	DCLT	07/05/2022	06/05/2022	9:00 Am to 12:00 Noon


22/04/2022
Course Coordinator

Dr. H. S. Malpani
Asstt. Professor & Head
Dept. of Microbiology
Shri R.L.T. College of Science, Akola




Principal
Principal
Shri R.L.T. College of Science
Civil Lines, AKOLA (M.S.)

Shri. R.L.T College Of Science, Akola.

Certificate Course In Clinical Laboratory Technology (CCLT)

List Of The Students Of Batch 2021-2022

Sr. No	Name of Students	Batch	Category
1	Abhijeet Pravin Bharsakale	B1	OBC
2	Dhanashree V. Ingale	B1	OBC
3	Gayatri S. Tayade	B1	OBC
4	Rutika Sudhakar Khirekar	B1	OBC
5	Kalyani K. Antarkar	B1	OPEN
6	Kunal A. Dahake	B1	OBC
7	Manisha Gajanan Chatarkar	B1	OBC
8	Mohini Haridas Ghumase	B1	OBC
9	Rohini S. Hande	B1	OBC
10	Surbhi R. Sengar	B1	OPEN
11	Yash N. Agarkar	B1	OBC
12	Dhanashri D. Kohare	B2	SBC
13	Divya Avinash Rawade	B2	OBC
14	Gayatri V. Thokane	B2	OBC
15	Neha Krishna Moskani	B2	OBC
16	Payal R. Babhulakar	B2	OBC
17	Pooja A. Bais	B2	OPEN
18	Prachi Nagesh Damodar	B2	SC
19	Pratiksha Sanjiv Ghaywat	B2	SC
20	Rudrayani D. Paraskar	B2	OBC
21	Sayali S. Nikam	B2	OPEN
22	Shravani A. Khawale	B2	OBC
23	Tejaswini R. Sangekar	B2	NTC
24	Vishakha Viswanath Kamble	B2	SC
25	Aachal Pramod Sapkal	B3	OBC
26	Anushka SuhasUgale	B3	OBC
27	Arpita A. Adhau	B3	OBC
28	Ayushi Girish Pasarkar	B3	OPEN EWS
29	Chetana B.Bagale	B3	OBC
30	Gauri Govind Rahudkar	B3	OBC
31	Manasi N. Dhamakar	B3	SBC
32	Nahid TSK Subhan Gaurave	B3	NTB
33	NaziyaBana. MohdAzif	B3	OPEN
34	Nandini A. Bhuyar	B3	OBC
35	Neha Divakar Tekade	B3	OBC
36	Neha K. Bople	B3	OBC
37	Pranali S. Bhilange	B3	SC
38	Rasika K. Gawande	B3	OBC
39	Sakshi R. Mishra	B3	OPEN
40	Shruti D. Banait	B3	OBC
41	Shruti Kekan	B3	NT-D
42	Sonakshi Rajinder Seth	B3	OPEN
43	Anurag Dnyandeo Mhaisane	B5	OBC
44	Devyani Ajay Chapekar	B5	OBC
45	Gauri Gajanan Ingole	B5	OBC
46	Hema Rajkumar Sewani	B5	OPEN

Sr. No	Name of Students	Batch	Category
47	Kirti Mukesh Gupta	B5	OPEN EWS
48	Mansi Sunilappa Ghodeshwar	B5	OBC
49	Prachi Sopan Chaudhari	B5	OBC
50	Renu Shridhar Rane	B5	OBC
51	Tanvi Digambar Nanote	B5	OBC
52	Vaibhavi P. Wakode	B5	OBC



**SANT GADGE BABA
AMRAVATI UNIVERSITY**
AMRAVATI - 444602
(M.S.)

☎ : 2662206, 2662207, 2662208, 2662249, 2662358.
website : www.sgbau.ac.in

FAX NO. 0721-2660949, 2662135

Email: reg@sgbau.ac.in

Department of Lifelong Learning & Extension

Department of Lifelong Learning & Extension
No. SGBAU/DLLE/526/ 282/2022
Date:- 07/09/2022

TO WHOM IT MAY CONCERN

This is to certify that Shri Radhakisan Laxminarayan Toshniwal College of Science, Akola (Maharashtra State) college code - 210 is affiliated with Sant Gadge Baba Amravati University, Amravati from 1970. The college has permanent affiliation and the following course / subject are thought in the said college as per approval by Department of Lifelong Learning & Extension, Sant Gadge Baba Amravati University, Amravati.

They are as follows:

Sr. No.	Name of Course & Duration	Duration of Course	Current Affiliation Status Permanent / Temporary
1.	Diploma in Sericulture	6 Months	Permanent
2.	Diploma in Astronomy	6 Months	Permanent

I wish success in the ambitious task which has desires to undertake in future.


Dr. Shrikant Patil
DIRECTOR
Deptt. of Lifelong Learning
& Extension
Sant Gadge Baba Amravati University



**SANT GADGE BABA
AMRAVATI UNIVERSITY**
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Department of Lifelong Learning & Extension

Department of Lifelong Learning & Extension

No. SGBAU/DLLE/526/283/2022

Date:- 07/09/2022

Certificate of Appreciation

This is to certify that Shri Radhakisan Laxminarayan Toshniwal College of Science, Akola (Maharashtra State) college code - 210 was designed the following six moth skill based Diploma Courses.

Hence provide an appreciation certificate to the college by Department of Lifelong Learning and Extension, Sant Gadge Baba Amravati University, Amravati.

Sr.No.	Name of Course	Duration of Course	Name of the Course Designer
1.	Diploma in Sericulture	6 Months	Dr. R. P. Joshi Asst. Professor Dept. Zoology
2.	Diploma in Astronomy	6 Months	Shri S. R. Jaiswal Asst. Professor Dept. Physics

I wish her/him success in the future and become a role model for teachers.


Dr. Shrikant Patil
DIRECTOR
Dept. of Lifelong Learning
& Extension
Sant Gadge Baba Amravati University

SHRI RLT COLLEGE OF SCIENCE, AKOLA
DEPARTMENT OF ZOOLOGY
Diploma Course in Sericulture
Syllabus
Theory (80 M + 20 M)

UNIT I: Mulberry & Non-Mulberry sericulture: (16 Marks)

- 1.1 Introduction to sericulture:
- 1.2 Cultivation of food plants.
- 1.3 Bioecology of mulberry silkworms.
- 1.4 Tasar sericulture, Muga sericulture; and Eri sericulture
- 1.5 Scope and Career Opportunities in Sericulture.
- 1.6 Marketing and Maintenance of Seri Products.
- 1.7 Utilisation and recycling of Seri-Waste.

UNIT II: Rearing of silkworms (16 Marks)

- 2.1 Rearing of silkworms.
- 2.2 Equipment's or requirements for rearing.
- 2.3 Favourable Climatic conditions for rearing.
- 2.4 Harvesting of Cocoons

UNIT III: Harvesting and Marketing of Cocoons (16 Marks)

- 3.1 Processing of cocoons.
- 3.2 Stifling and reeling of cocoons
- 3.3 Reeling's selling to Textile mills through Government sanctioned rates.
- 3.4 Government Subsidies and Schemes for Sericulture farming.
- 3.5 Reeling appliances

UNIT IV: Diseases n Preventions (16 Marks)

- 4.1 Diseases of Bombyx mori
- 4.2 Preventive measures for disease free cocoon production.
- 4.2 Predators and parasitoids of silkworm and their management

UNIT V: Sericulture organization and economics (16 Marks)

- 5.1 Marketing of silk, organizational set up of sericulture, economics of mulberry cultivation,
 - 5.2 Economics of cocoon production, economics of seed cocoon,
 - 5.3 Economics of silk production, extension education,
 - 5.4 Classification of various extension teaching methods .
-

Practical Work : (200 marks)

The distribution of marks for practical-I & II will be as follows:

- Students must be performing hands-on Projects/ Internships. (80 marks)
- Students Seminars and report submission on hand-on projects. (20 marks)
- Dissertation and Projects Submission. (80 marks)
- Students presentation on the project and report submission. (20 marks)

SANT GADGE BABA AMRAVATI UNIVERSITY**SHORT - TERM CERTIFICATE COURSES EXAMINATION OF SUMMER - 2021****PROGRAMME FOR THEORY
Revised**

Day	Date	Time	Subject
Tuesday	30-11-2021	09 AM. To 10 AM.	Certificate Course Tally
			Certificate Course Desktop Publishing
			Certificate Course Food & Beverages Services
			Certificate Course Housekeeping
			Certificate Course Textile weaving
			Certificate Course Textile Spinning
			Diploma in Sericulture
			Diploma in Astronomy
		02 PM. To 03 PM.	a) Diploma in Naturopathy & Yoga Therapy Paper-I
			b) Diploma in Naturopathy & Yoga Therapy Paper-II

(Note :- The Schedule is subject to corrections, if any)

The Name of Examination centre is printed on Admission Card of the examinee.



Dr.H. R. Deshmukh

**Director, Board of Examinations and Evaluation
Sant Gadge Baba Amravati University**

AMRAVATI

DATE : 24/11/2021

Shri R. L. T. College of Science, Akola

Time Table (Online/Offline mode)

Session-2021-2022 (w.e.f.-01/12/2021)

Diploma Courses (Astronomy and Sericulture)

Day	Class	Time	Theory/ Practical
Monday	Sericulture	10:00 am to 11:00 am	Theory
Tuesday	Astronomy	5:00 pm to 6:00 pm	Theory
Wednesday	Sericulture	10:00 am to 11:00 am	Theory
Thursday	Astronomy	5:00 pm to 6:00 pm	Theory
Friday	Sericulture	9:00 am to 11:00 am	Practical
Saturday	Astronomy	6:00 pm to 8:00 pm	Practical

Dr. Rashmi Sawalkar (Joshi)
Assistant Professor
Department of Zoology
Shri R.L.T.College of Science, AKOLA

S. R. Jadhav
Asst. Professor
Dept. of Physics

Principal
Shri R.L.T.College of Science
Akola

The B.G.E. Society's

Shri R. L. T. College of Science, Akola

Re-accredited with 'A' Grade by NAAC with CGPA 3.12



Department of Zoology & IQAC

Conducting

“Diploma Course in Sericulture”

Affiliated by

Sant Gadge Baba Amravati University, Amravati

Department of Lifelong Learning & Extension



List of Admitted Students (2021-22)

Sr.No.	Name of Participants	Class/ Others	Email Address	Mobile no.
1.	Aditi Prabhakar Charhate	BSc	aditicharhate@gmail.com	9172658214
2.	Akshay Kumar	Others from	ak1813908@gmail.com	6230193319
3.	Anuja Vijay Shete	X-student	anujashete26@gmail.com	8208676937
4.	Ashvini Vinod Nandurkar	MSc	ashvininandurkar2017@gmail.com	9921633149
5.	Gayatri Narendra Sable	X-student	gtrsable@gmail.com	9172805417
6.	Himanshu Kunjilal Sunariwal	X-student	himanshusunariwal1999@gmail.com	9588457820
7.	Juhi Vinod Sarag	BSc	saragjuhi07@gmail.com	8421845053
8.	Lata Bharat Gehi	MSc	latagehi2000@gmail.com	8379989708
9.	Manojkumar Himmatrao Wadatkar	BSc	manojwadatkar6@gmail.com	07620512185
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12.	Mrunal Manoj lahute	BSc	mrunalahute38@gmail.com	9136773911
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17.	Prajakta prakash zarkar	BSc	prajaktazarkar@gmail.com	9022136011

18.	Pramod baliram jadhao	Farmer	pramod.jadhao1997@gmail.com	8007326484
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21.	Sakshi Anil Bhagat	BSc	bhagatsakshi04@gmail.com	8010396960
22.	Sakshi Rajesh ingle	MSc	sakshiringle2@gmail.com	9325216699
23.	Samiksha Raju Shingade	BSc	samikshashingade235@gmail.com	8080844116
24.	Sejal vinayak ingle	X-student	sejalingle123@gmail.com	9011051940
25.	Shankar aatmaram jadhao	Farmer	shankarjadhao8000@gmail.com	8308080626
26.	Shantanu Sunilrao Wawage	BSc	wawageshantanu@gmail.com	8380068836
27.	SHIRAZ AHMAD MIR	Others from Kashmir	Ms638705@gmail.com	07006478122
28.	Shitalkumar Laxman Ghogare	Farmer	shital.ghogare@gmail.com	8888675868
29.	Shrutika Vijayrao Kadam	Ex- student	deshmukhshrutika03@gmail.com	8275456938
30.	Shubham Ramesh Rathod	Teacher	shubhamrathod862@gmail.com	7057516547
31.	Sonal Bandu gawande	BSc	sonalgawande3007@gmail.com	8177902763
32.	Sujata Bharat Wankhade	Farmer	sujatawankhade013@gmail.com	7083525872
33.	Vaishali Ramashankar yadav	MSc	vaishaliyadav700@gmail.com	7821058038
34.	Vaishnavi Baburao Deshmukh	MSc	vaishnavideshmukh2203@gmail.com	8484003076
35.	Vaishnavi Manohar Tade	MSc	tadevaishnavi@gmail.com	9763858672
36.	Vijaya Shridhar Kalaskar	MSc	vijayaskalaskar@gmail.com	8975084678

Course Coordinator

Principal