



RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR

(Established by Government of Central Provinces Education Department by Notification No. 513, dated 1st of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Maharashtra Act No VI of 2017)
(Academic Section)

Academic Section, Rashtrasant Tukadoji Maharaj Nagpur University, Jannalal Bajaj Administrative Building, Mahatma Jotiba Phule Educational Premises, Campus Square to Ambazari T-Point Road, Nagpur-440033

No. Acad. /Acad. Cale. /2021/45

Date: 25th June 2021

NOTIFICATION

It is notified for general information of all the University conducted/ constituent/ affiliated colleges and Post-Graduate Teaching Departments of the University that the Academic Calendar for the session 2021-22 will be as under:

A) ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER SEMESTER PATTERN FOR SESSION 2021-22.

1. Terms & Vacation

First Term (Odd semesters) = U.G.	:	02.08.2021 to 30.11.2021
First Term (Odd semesters) = P.G.	:	30.08.2021 to 24.12.2021
Diwali Holidays	:	31.10.2021 to 10.11.2021
Second Term (Even semesters) = U.G.	:	10.01.2022 to 07.05.2022
Second Term (Even semesters) = P.G.	:	10.01.2022 to 07.05.2022
Summer Vacation	:	09.05.2022 to 22.06.2022

2. Admissions*

a) Last date of Admission (First sem) U.G & PG	:	To be notified separately
b) Last date of Admission other than 1 st sem. U.G & PG	:	20 th September 2021
c) Last date for Admission with prior permission of the Vice-Chancellor	:	20 th October 2021

3. Last date of submission of Enrolment forms to the university : Within fifteen days from the last notified date of Admission

4. Examination

A. Winter Examinations.

1. Commencement of Exam.

a) Failure Students in even semesters = U.G	:	15 th November 2021
b) Failure Students in even semesters = P.G	:	13 th December 2021
c) Regular students in odd semesters = U.G	:	1 st December 2021
d) Regular students in odd semesters = P.G	:	27 th December 2021

2. Last date for receipt of exams. forms

a) Regular students = U.G & PG	:	Within one month from the last date of admission
b) Old Ex-Students & External Students	:	15 th September 2021
c) Ex-Students of immediately previous examination = U.G & PG	:	Within 15 days from the date of declaration of the result of summer Exams.

B. Summer Exams.

1. Commencement of Exams.

a) Failure of odd semester = U.G & P.G	:	25 th April 2022
b) Regular Even semester = U.G	:	9 th May 2022
c) Regular Even semester = P.G	:	9 th May 2022

2. Last date for receipt of examinations forms

a) Regular Students	:	1 st March 2022
b) Ex-Students of immediately previous exam	:	Within 15 days from the date of declaration of the result of winter Exams.
c) Old Ex-Students & External Students	:	15 th October 2021

5. Declaration of Results : As per governing provisions of the Act.

B) ACADEMIC CALENDAR FOR THE COURSES CONDUCTED AS PER ANNUAL PATTERN FOR SESSION 2021-22.

1. Terms & Vacation

First Term	:	02.08..2021 to 30.10. 2021
Diwali Holidays	:	31.10.2021 to 10.11.2021
Second Term	:	11.11.2021 to 07.05.2022
Summer Vacation	:	09.05.2022 to 22.06.2022

2. Admissions*

- a) Last date of Admission : **To be notified separately**
b) Last date for Admission with prior Permission of the Vice-Chancellor : **To be notified separately**

- 3. Last date of submission of Enrolment forms to the university** : Within fifteen days from the last notified date of Admission.

5. Examination

Winter Examinations.

1. Commencement of Exam. : 15th November 2021
2. **Last date for receipt of exams. forms**
a) Regular Students : 30th October 2021
b) External Students : 15th September 2021
c) Old Ex-Students : 15th September 2021
d) Ex-Students of immediately previous examination : Within 15 days from the date of declaration of the result of summer exam

Summer Exams.


1. Commencement of Exams. : 9th May 2022
2. **Last date for receipt of exams. forms**
a) Regular Students : 15th March 2022
b) Old Ex-Students : 15th October 2021
c) External Students : 15th October 2021
d) Ex-Students of immediately previous exam. : Within 15 days from the date of declaration of the result of winter exam
- 5. Declaration of Results** : As per governing provisions of the Act.

- C) Convocation Winter 2020 & Summer 2021** : **December 2021**

Special Instructions :

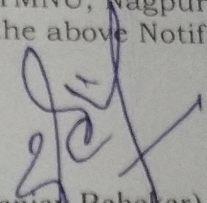
1. The Principals/Heads of the institutions should communicate the list of students admitted in their colleges/ institutions to the university within 15 days from the last date of admission as notified by the university.
2. Students admitted after the last date as specified above shall not be considered for enrolment in the University and therefore, shall not be permitted to appear at the university examinations.
3. All government & other holidays are calculated on the basis of last year's statistics. It is likely to be same except small variations after the declaration by the Government/authorities. The schedule of such holidays will be separately notified by the university at the beginning of Calendar Year
4. Theory and Practical examinations may be held on Sunday with prior permission and intimation.
5. M. Card (Machine Card) must be sent by the Principal/University Heads of the Department, within 30 days from the last date of admission as notified by the university, strictly in MS Excel software.
6. **Due to pandemic situation, majority of teaching activities are taking place in online mode. Hence, Sundays may be treated as teaching days.**
7. It is necessary by the Principals/Head of the Department to certify the number of actual teaching days conducted during the academic session.
8. All efforts should be made to achieve more than 180 teaching days in Annual Pattern and 90 days per Semester in Semester Pattern.
9. This schedule is applicable only for the entry level admissions to various courses excluding the courses where admissions are governed by centralized admission process.
10. Therefore, the last date of admissions for all courses where centralized admission process is adopted shall be notified separately.
11. The Last Date of examination forms for CAP round admission will be 15 days from the last date of admissions.
12. In case, Admissions governed by **Conditional Eligibility** the last date for submission of examinations form shall be within fifteen days after declaration of its qualifying examinations provided such students should have been admitted provisionally for its next higher academic session as per Direction No. 27 of 2008 and 6 Of 2010.
13. **Special Note:**
Owing to the Pandemic situation, there is a possibility that this Academic Calendar may require changes during its course of implementation in accordance with the norms and guidelines issued by the Government and other regulating bodies. In view of this, the Academic Council authorizes Hon'ble Vice-Chancellor to make necessary amendments and modifications in this Academic Calendar.

By Order of the Hon'ble Vice- Chancellor


(Dr. Anil Hirekhan)
Registrar

Copy forwarded for information and necessary action to :-

1. P.A. to Hon'ble Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
2. P.A. to Hon'ble Pro-Vice-Chancellor, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
3. P.A. to Registrar, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
4. The Principals of all Colleges / Head of the Post- Graduate Teaching Departments of the Rashtrasant Tukadoji Maharaj, Nagpur University, Nagpur.
5. All Officers of the Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
6. The Registrar of All Universities in the Maharashtra State.
7. Dr.Veena Prakashe, Information Scientist, University Campus Library, RTMNU, Nagpur
8. The Editor, All local News Papers. They are requested to kindly publish the above Notification in their esteemed News Paper as a News Item.


(Sanjay Bahekar)

Deputy Registrar (Acad.)(Ad.Ch.)



Dada Ramchand Bakhru Sindhu Mahavidyalaya
Panchpaoli, Nagpur
Academic Calendar 2021 -2022



ACADEMIC CALANDER FOR THE COURSES CONDUCTED AS PER SEMESTER PATTERN FOR SESSION 2021-2022.

B.Sc. Sem. I – VI, B.Com. Sem. I-VI, BBA Sem. I – VI & IV, M. Com Sem. I–IV and M.Sc. Sem. I & II

I) Terms & Vacation

First Term (Odd semester) = U.G.	- 02/08/2021 to 30/11/2021
First Term (Odd semester) = P.G.	- 30/08/2021 to 24/12/2021
Diwali Holidays	- 31/10/2021 to 10/11/2021
Second Term (Even semester) = U.G.	- 10/01/2022 to 07/05/2022
Second Term (Even semester) = P.G	- 10/01/2022 to 07/05/2022
Summer Vacation	- 09/05/ 2022 to 22/06/2022

II) Admission

Online Availability of prospectus	- To be notified separately
Last date for admission for Semester-I (UG& PG)	- To be notified separately
Last date for admission other than Semester-I (UG& PG)	-20 th September 2021
Last date for admission with prior permission of the Vice-Chancellor	- 20 th October 2021

III) Teaching –Learning

Regular Teaching start from	
(UG) I, III & V Semester	- 02/08/2021 to 30/11/2021
(PG) I, & III Semester	- 30/08/2021 to 24/12/2021
(UG) II, IV & VI Semester	-10/01/2022 to 07/05/2022
(PG) II, & IV Semester	-10/01/2022 to 07/05/2022

IV) Enrolment in N.C.C., N.S.S., Sport , cultural & other activities

Co-curricular activity in the university (Online activity)	
(For new students only)	- 31 st September 2021
Sport activity morning & evening (2 hrs) (Online activity)	
	- 15/09/2021 to 15/11/2021
	- 15/01/2022 to 01/05/2022

V) Selection of class representative & election

of secretary of student council - 15st Sept 2021

VI) Co-curricular & Extracurricular activity - One week in the month of Dec 2021

VII) Examination

A) Winter Exam

Winter exam (Failure students in even Sem. UG) - 15/11/2021 (As per Univ. academic calendar)

Winter exam (Failure students in even Sem. PG) - 13/12/2021 (As per Univ. academic calendar)

Winter exam (Regular students in odd Sem. UG) - 01/12/2021 (As per Univ. academic calendar)

Winter exam (Regular students in odd Sem. PG) - 27/12/2021 (As per Univ. academic calendar)

College Exam - At the end of each Unit.

College Terminal Exam - At the end of each Semester (Last week of November 2021)

B) Summer exam

Failure of odd semester (UG & PG) - 25/04/2022 (As per Univ. academic calendar)

Regular of even semester (UG & PG) - 09/05/2022 (As per Univ. academic calendar)

College Exam - At the end of each Unit.

College Terminal Exam - At the end of each Semester (First week of May 2022).



DADA RAMCHAND BAKHRU
SINDHU MAHAVIDYALAYA
K.T.R. Marg, Panchpaoli, NAGPUR
EXAMINATION AND EVALUATION COMMITTEE (2021-2022)

Proposed plan for Session 2021-2022

S. N.	Months	Activity
1	June 2021	<ul style="list-style-type: none">• Preparation of Practical / Theory Online Question Paper• Practical Exam Summer -2021• Online Unit Test for Regular students (Mapping of COs)
2	July 2021	<ul style="list-style-type: none">• Preparation of Practical / Theory Online Question Paper• Internal Assessment for Sem II• Term Exam Sem II• RTMNU B.Sc Sem II Practical Exam Summer -2021• Online Unit Test for Regular students (Mapping of COs)
3	August 2021	<ul style="list-style-type: none">• New Academic session Starts• Preparation of Practical / Theory Online Question Paper• Online/Offline Unit Test for Regular students (Mapping of COs)• M.Com/B.Com/ BBA/ B. Sc Result Analysis subject wise• Result Analysis subject wise (Departmental level)
4	September 2021	<ul style="list-style-type: none">• Online/Offline Unit Test for Regular students (Mapping of COs)• College -Result Analysis Final year by EEC
5	October 2021	<ul style="list-style-type: none">• Online/Offline Unit Test for Regular students (Mapping of COs)• Assign Internal Assessment [Winter 2021]
Diwali vacation 31st Oct. 2021 upto 10th Nov. 2021		
6	November 2021	<ul style="list-style-type: none">• Online Unit Test for Regular students (Mapping of COs)• Preparation of Practical / Theory Online/Offline Question Paper [Winter 2021]• Term Examination of M.Com/B.Com/ BBA/ B.Sc [Winter 2021]• Assign Internal Assessment [Winter 2021]
7	December 2021	<ul style="list-style-type: none">• Online/ Offline Unit Test for Regular students (Mapping of COs)• B.Com/ BBA/ M.com Viva• Assign Internal Assessment [Winter 2021]
Winter vacation 23rd Dec. 2021 upto 2nd Jan. 2022		


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


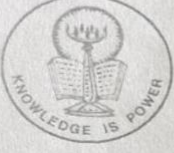
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EXAMINATION AND EVALUATION COMMITTEE (2021-2022)

8	January 2022	<ul style="list-style-type: none">• Online Unit Test for Regular (Odd Semester) students (Mapping of COs)• Preparation of Practical / Theory- Online Question Paper [Winter 2021]• Term Examination of M.Com/B.Com/ BBA/ B.Sc [Winter 2021]
9	February 2022	<ul style="list-style-type: none">• Online Unit Test for Regular (Even Semester) students (Mapping of COs)• Result Analysis subject wise (Departmental level) [Winter 2021]
10	March 2022	<ul style="list-style-type: none">• Online Unit Test for Regular (Even Semester) students (Mapping of COs)• College result analysis of final year by EEC• Preparation of Practical / Theory Online/Offline Question Paper [Winter 2021]
11	April 2022	<ul style="list-style-type: none">• Assign Internal Assessment [Summer- 2022]• Online/ Offline Unit Test for Regular M.Com/M.Sc./B.Com/ BBA/ B.Sc (Even Semester) students (Mapping of COs)• Grade Examination of Environmental studies• Term Examination of M.Com/M.Sc./B.Com/ BBA/ B.Sc [Summer 2022]
12	May 2022	<ul style="list-style-type: none">• RTMNU Exam Summer 2022• Term exam (Even semester) M.Com/B.Com/ BBA/ B.Sc [Summer 2022]
Summer Vacation (9th May 2022 to 22nd June 2022)		


Co-ordinator


Principal



DADA RAMCHAND BAKHRU
SINDHU MAHAVIDYALAYA

K.T.R. Marg, Panchpaoli, NAGPUR
EXAMINATION AND EVALUATION COMMITTEE (2021-2022)

Following are the members of committee members of
Examination and Evaluation Committee (2021-2022)

Incharge : Dr. Mrs. Sujata Mankar

Member: 1)Dr. Mrs. Rashi Vaswani

2) Dr Mrs. Trupti Sakhare

3) Dr. Avish Patil

4) Dr. Pravin Kamthe

Email ID : smvexam_iqac@rediffmail.com

VP

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K.T.R. Marg, Panchpaoli, NAGPUR

EXAMINATION AND EVALUATION COMMITTEE (2021-2022)

Examination Pattern & Marking system (Session 2021-2022)

	Criteria	Max. Marks		Pattern	Mode
1	Unit test (All semester)	15/20/25		Online test/ Assignments/ Oral / Surprise test/Open book test	Online / Offline
2	Internal Assignment (RTMNU) Semester-wise	Science	10	Assignments/ Project Seminar	Online / Offline
		Language & Mathematics	15		
		B.B.A. & B.Com	20		
		M.Com			
		M.Sc	20		
3	Term Exam (Odd & Even semester)	Science	50	Theory	Online mode
		Language & Mathematics	60		
		B.B.A. & B.Com	80		
		M.Com			
		M.Sc.	80		
4	Grade examination of EVS B.B.A. , B.Com & B.Sc. (Sem III / IV)	Theory	75	Online test	Online mode
		Assignment	25	Project/ Assignment	
5	Internal Viva-voce	B.B.A., B.Com & M.Com		Oral/ Assignments/ Seminar	Online / Offline mode
6	Project / Dissertation Work	B.B.A. Sem VI	200	Project work	Online / Offline mode
		M.Com Sem IV			
		M.Sc Sem VI	100		
7	RTMNU Practical	B. Sc	30	Practical record, Experiments, Viva-voce	Online / Offline mode
		M.Sc.	40		

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**DADA RAMCHAND BAKHRU
SINDHU MAHAVIDYALAYA**

K.T.R. Marg, Panchpaoli, NAGPUR

EXAMINATION AND EVALUATION COMMITTEE (2021-2022)

NOTICE

All the Head of the department are hereby informed to prepare Question banks as per **Examination Pattern & Marking system (Session 2021-2022)** for M.Com, B.Com, B.B.A. and B.Sc. students (Sem I, III & V) Winter 2021. The Department should conduct online / offline mode of examination as per their convenience and maintain the record (Notice, soft/hard copy & link of Question paper, Active link, Screenshots, etc.).



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SINDHU MAHAVIDYALAYA

K.T.R. Marg, Panchpaoli, NAGPUR
EXAMINATION AND EVALUATION COMMITTEE (2021-2022)

NOTICE

All the Head of the department are hereby informed to conduct **TERM examination** for M.Com, B.Com, B.B.A. and B.Sc. students (Sem III) Winter 2021 and give them Assignments for Internal Assessment before RTMNU examination. The Department should conduct online examination as per their convenience and maintain the record (Notice, Time table, Active link, Screenshots, etc.).

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Principal

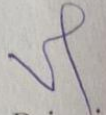


**DADA RAMCHAND BAKHRU
SINDHU MAHAVIDYALAYA**

**K.T.R. Marg, Panchpaoli, NAGPUR
EXAMINATION AND EVALUATION COMMITTEE (2021-2022)**

NOTICE

The students of all semester M.Com, B.Com, B.B.A. and B.Sc. students of session 2021-2022 are hereby informed that **75% attendance is mandatory** for appearing University examination as per regulation of RTM Nagpur University , Nagpur .


Principal

Copy to: All the Heads of the department



Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur

Bachelor of Science (B.Sc.) Semester - III

MICROBIOLOGY

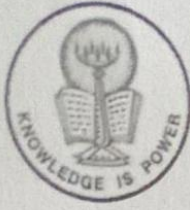
Paper- I Chemistry of Organic Constituents and Enzymology

Unit Test-3

- 1) Explain derivation of Michaelis and Menten equation for enzyme kinetics and give Modification of MM equation.
- 2) Enlist different types of enzyme inhibition. Give an account on all Enzyme inhibition.

Q.3: Write a short note on -

- a) Explain enzyme regulation.
- b) What are membranes bound enzymes? Explain with suitable examples.
- c) Explain EC number with an example.
- d) Explain Lock and key model.
- e) Explain classifications of Enzymes.
- f) Describe multienzyme complex with suitable example.
- g) Define co-factor and co-enzymes with examples.
- h) Explain induced fit model.
- i) Explain allosteric enzymes?



Dada Ramchand Bakhru Sindhu Mahavidyalaya
Department of Biochemistry



UNIT TEST(Sem VI)

Date: 17/01/22

Max Marks: 20

- | | |
|---|-----|
| Q1. General Characteristics of Genetic Code | 10M |
| Q2. Wobble Hypothesis | 5M |
| Q3. Deciphering of Genetic Code | 5M |

