

R. C. Patel Educational Trust's

# R. C. Patel Arts, Commerce and Science College

Shirpur-425405, Karvand Naka, Dist.- Dhule (Maharashtra)

E-mail - principal@rcpasc.ac.in

Affiliated to: K. B. C. North Maharashtra University, Jalgaon-425001

Self Study Report (SSR): 2024 (4th Cycle)



Criteria - 3
Research, Innovations and Extension

Key Indicator - 3.2 Innovation Ecosystem



Metric No. - 3.2.1 (QIM)

Institution has created an ecosystem for innovations, Indian Knowledge System (IKS),including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident

Submitted to

**National Assessment and Accreditation Council, Bangalore** 



R. C. Patel Educational Trust's

# R. C. Patel Arts, Commerce and Science College

Karvand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

**:** (02563) 299328

E-mail: principal@rcpasc.ac.in

**President** 

Hon. Bhupeshbhai Patel

Principal

Dr. D. R. Patil

**Date:** 15/06/2024

# **Declaration**

This is to declare that, the information, reports, true copies of the supporting documents, numerical data etc. submitted in these files is verified by Internal Quality Assurance Cell (IQAC) and it is correct as per the office record.

This declaration is for the purpose of NAAC accreditation of the HEI for the 4<sup>th</sup> cycle assessment period 2018-19 to 2022-23.

Place: Shirpur

Date: 15/06/2024

Dr. Sandip P. Patil IQAC Co-ordinator

IQAC Coordinator
R. C. Patel Educational Trust's
R. C. Patel Arts, Commerce and Science College
Shirpur, Dist.-Dhule (M.S.) 425405

R. C. Patel Educational Trust's

Dr. D. R. Patil IQAC Chairman & Principal

PRINCIPAL

R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College
Shirpur, Dist.-Dhule (M.S.) 425405

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# R. C. Patel Arts, Commerce and Science College, Shirpur, Dist-Dhule

# IPR Cell and innovation activities

# **Brief description**

The R. C. Patel Arts, Commerce and Science College has established an incubation cell under the KBC north Maharashtra University incubation centre. The College created an ecosystem for which it conducts various activities. The objective of the cell is to inculcate the basics of innovations and entrepreneurship among the faculties and students. The institution is also working as a bridge between society and stakeholders for transferring the knowledge, innovations and some scientific solutions for the problem encountered. The college has established Academic research Committee (ARC) which promotes the research collaboration and research culture among the faculty members. ARC promotes the faculty members and students to undertake research work by providing basic research facilities, necessary guidance etc. The college has subscribed the Turnitin facility for detecting the plagiarism in their academic/research writing. The research committee of the college undertakes the review of the research projects/papers before submission to funding agencies or journals. One of the faculty of the college is working on Research Committee of the KBC North Maharshtra University. We have collaboration with many academic institutes, research labs, industry. Our knowledge resource center (KRC) is well equipped with many journals, e-books, many reference books and facilities such as N-LIST. Due to these facilities we have significant number of publications in peerreviewed journals of repute and patents. Research and innovative ideas of the scholars are cultivated. From the year 2023-24, as per the New Education Policy 2020 (NEP 2020), the college is conducting one month research/industrial internship, On job training (OJT) for first year students of all PG courses. This has helped students to understand industry needs, skill sets required for taking career in research and industry.

# **Functioning of ecosystem for Research and Innovation:**

The innovation, importance of IPR and patenting is promoted among the students and faculty through following activities.

- (i) Recruiting and developing desirable human resource
- (ii) Taking initiatives for creation and dissemination of knowledge and
- (iii) Establishing state of the art infrastructure
- (iv) Establishing the IPR cell in the college.

The Institution provides a conductive environment for promotion of Innovation and Incubation. All required facilities are provided and Guidance is extended to the students.

Students are encouraged to actively involved in the application of Technology for societal needs. Necessary support is provided for Documentation, Publication of Research Papers and also for obtaining patents.

- Awareness meets, workshops, seminars and guest lectures on Entrepreneurship are
  organized. Students are provided opportunities to directly interact with outstanding
  entrepreneurs excelling in their field. Product service Training is provided for creating
  awareness on marketing the products.
- The sole objective of the Incubation Centre is to facilitate students to convert their Ideas into Technological Innovations. Students are provided facilities to build prototypes useful for promotion of Agriculture and Rural Development. Workshops on emerging trends in Technology are held. Model Expos are held. Students are awarded cash prizes for best models. Students are encouraged to gain hands on experience and better Industrial Exposure.
- College has recognized Research Centres in the several departments and this would be an added advantage to the students to develop their Prototypes.

# The IPR Cell of the college

Intellectual property refers to creations of the mind that could be scientific invention, literary and artistic work, and symbol, name, image, and design for which a set of exclusive rights like copyrights, trademarks, patents, industrial design rights and trade secrets are recognized under the corresponding fields of IP law. Intellectual property creation and its protection are very important issues in recent days especially for institutes involved in R & D activities.

# **Structure of IPR Cell**

Sr. No.	Name of faculty	Designation	
1	Prof. D. R. Patil Hon'ble Principal, RCPACS, Shirpur	Chairman	
2	Prof. A. M. Patil Vice-Principal, RCPACS, Shirpur	Member	
3	Prof. R. H. Patil Head, Department of Biotechnology	Coordinator	
4	Dr. S. P. Patil Head, Department of Microbiology	Member	
5	Prof, B. L. Chaudhari, Director of Innovation and Incubation cell, KBC NMU, Jalgaon	External expert	

# Outcome of the IPR cell

The college has organized several seminars, workshops and conferences on IPR and patenting in last five years. The details of it are provided in 3.2.2. The IPR cell has motivated students through guest lectures, entereprenual workshops etc. Two faculty members of the college have filed Indian patents for their innovations.

Dr. R. H. Patil Coordinator, innovation cell R. C. Patel Educational Trust's

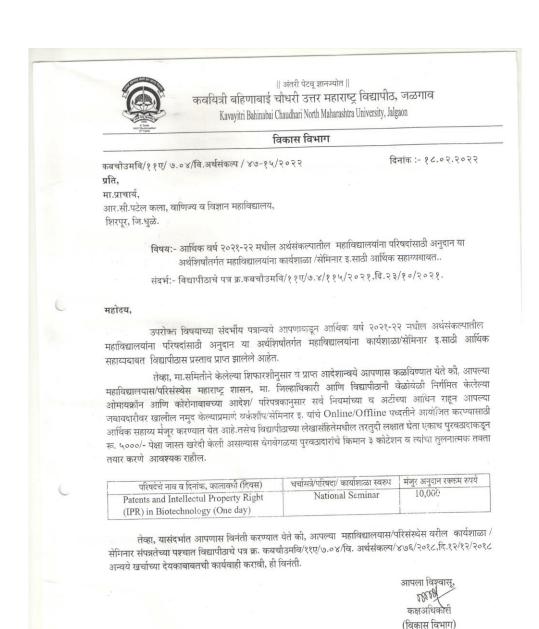
Dr. D. R. Patil

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Shirpur, Dist.-Dhule (M.S.) 425405

# Activities of the IPR cell

The IPR cell organized various seminars, workshops on innovation, intellectual properties, research methodologies, patents etc. in the last five years. The cell has also received funding from organizing such activities.

# Funding received for organizing activities on IPR/patenting etc.



प्रत सविनय सादर:-

मा.प्र-कुलगुरु महोदय यांचे कार्यालय,कबचौउमवि,जळगाव.

प्रत माहिती व पुढील कार्यवाहीसाठी :-

मा.वित्त व लेखा अधिकारी, वित्त विभाग, कवियत्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव.

🖀 : (९१) ०२५७-२२५७२२५ (कार्यालय) फॅक्स : (९१) ०२५७-२२५८४०३ च २२५८४०६

# Activities in association with KBC North Maharashtra University

University, KCIIL - KBCNMU Centre for Innovation Incubation and Linkages started on 19 September 2019 under the ages of Maharashtra State Innovation Startup 2018, hosted by Kavayitri Bahinabai Chaudhari North Maharashtra University Jalgaon. KBCNMU Centre for Innovation, Incubation & Linkages (KCIIL) is established at Kavaytri Bahinabai Chaudhari North Maharashtra University (KBCNMU) campus to promote innovation & create a vibrant entrepreneurial ecosystem in the university. KCIIL aims to provide handholding support to students & startups to build and develop innovative solutions to address socio-economic growth and create employment opportunities for all sections of society. KCIIL has supported over 20 startup ideas working in a range of sectors such as Healthtech, Biotech, Agrotech, Edutech, Manufacturing, Cybertech, Foodtech, Cleantech, etc. (https://kciil-kbcnmu.in/about-us/).

The IPR cell organized various seminars, workshops on innovation, intellectual in association with KCILL, KBCNMU, Jalgaon

# **IPR Workshops/seminar:**







R. C. Patel Arts, Commerce and Science College, Shirpur and KBCNMU, Jalgaon Sponsored

# National Seminar on Patents and Intellectual Property Rights (IPR) in Biotechnology

**April 7<sup>th</sup>, 2022** 

Organized by
Department of Microbiology and
Biotechnology, R. C. Patel Arts,
Commerce and Science College,
Shirpur, Dist: Dhule
(NAAC Re-accredited 'B\*+, Grade)

Prof. Dr. R. H. Patil Co-ordinator Dr. S. P. Patil Organizing Secretary

Dr. D. R. Patil Principal

R. C. Patel Arts, Commerce and Science College, Shirpur, Dist: Dhule. (NAAC Re-accredited 'B<sup>++</sup>' Grade)

# Website: www.rcpasc.ac.in

# **About the College:**

The R. C. Patel education trust is a educational profound movement offering secondary and tertiary education since last 25 years to the rural and tribal students of this region. Besides the conventional Arts. Commerce and Science streams, the college also runs several self-finance courses according to student demand. Previously, the college has undertaken two assessment and accreditation cycles of NAAC and accredited with 'B' grade on both the assessments. The majority of the students admitted in this institute come from the rural. economically backward and agriculture background for whom higher education is still out of reach.

# **About the Seminar**

Intellectual Property Rights in the field of Biotechnology and the Life Sciences has been high on the agenda of the policymakers from last decade. Moreover, here has been a wide and ongoing debate on the nature and scope of these rights particularly for plant varieties, GMOs, pharmaceuticals and

novel drugs. WIPO has defined these rights as rights accruing from creations of mind. But, the value of Intellectual Property does not lie merely in creation development rather in and commercialization. Intellectual Property is a powerful commercial asset whose commercialization is yet to be fully developed in India. However, the lack of awareness and the cumbersome process of getting protection to these rights have led to numerous incidents of plagiarism, stealing of traditional knowledge of local communities, amongst others. Large scale schemes and programs spreading awareness among people including communities and students is the need of the hour.

### The theme of seminar

- Intellectual Property: Concept
- Intellectual Property Rights: Emerging Issues and challenges
- Evolution of Biotechnology and Patents
- Protection of Traditional Knowledge
- Plant Variety Protection
- Pharmaceutical Patents and Public Health

# Registration

- There is no registration fee. However, participants must register themselves through Google form.
- Register at: https://forms.gle/RWcMPv7gNM9 MDeXSA

Last Date of registration: April. 5, 2022

# **Programme:**

The programe will be conducted through online mode (Zoom Platform).

# **Contact:**

Co-ordinator, Prof. Dr. R. H. Patil,

Department of Microbiology and Biotechnology, R. C. Patel Arts, Commerce and Science College, Shirpur, Dist: Dhule, (www.rcpasc.ac.in)

# **Seminar Schedule:**

**Session I** 

Key note address I: 11.00 to 12.30

Break: 12.30 to 3.00

**Session II** 

Plenary lecture II: 03.00 to 4.30

# **Confirmed Speakers**

Dr. Niaranjan Yeole

Scientist, IP group, CSIR-NCL, Pune



Dr. Niranjan is a scientist working in intellectual property group of CSIR National Chemical Laboratory, Pune. He is engaged in managing IP portfolios championing innovative technologies.

# Prof. Dr. Bhushan L. Chaudhari

Professor & Head, Department of Microbiology, SLS, KBCNMU, Jalgaon



Prof. Bhushan L. Chaudhari is working as head of the department of Microbiology at School of Life Sciences. Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon. He is also serving as Director for KBCNMU Centre for Innovation, Incubation & Linkages (KCIIL).



# **Patrons**

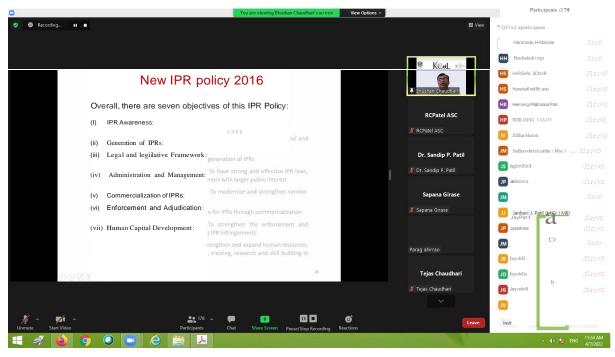
Hon. Shri. Amrishbhai Patel, Ex. Minister and MLC, Govt. of Maharashtra

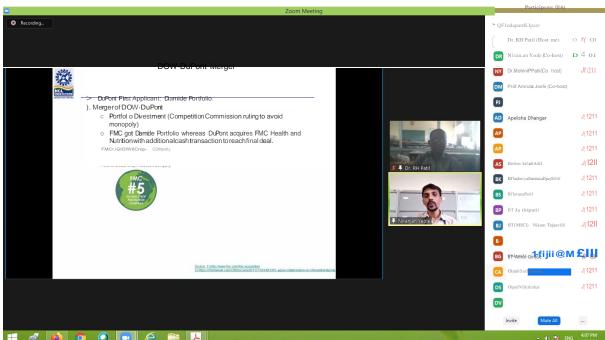
**Hon.** Shri. Bhupeshbhai Patel, President, RCPET, Shirpur

**Hon. Shri. Rajgopal C. Bhandari**, Vice President, RCPET, Shirpur

**Prof. Dr. V. L. Maheshwari,** Hon. Vice- Chancellor, KBCNMU, Jalgaon.

**Hon. Prin. Dr. K. B. Patil**, Ex. Vice Chancellor, KBCNMU and Director, RCPET and SES, Shirpur







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# R. C. Patel Educational Trust's

# R. C. Patel Arts, Commerce and Science College

Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

**2**: (02563)257328, 257329 Fax No.: 256170-255189

E-mail: dr.drpatil@gmail.com

President Hon. Bhupeshbhai Patel

Principal Dr. D. R. Patil

**Date: April** 7<sup>th</sup>, 2022

To,
Prof. (Dr.) Bhushan L. Chaudhari
Head, Department of Microbiology,
School of Life Sciences, KBCNMU, Jalgaon

# Dear Prof. Chaudhari:

Ref: RCP/4/2022

I take this opportunity to acknowledge your work as a resource person for the "National Seminar on IPR and patenting' organized on 7th April 2022. You have done commendable job for the benefit of the students and the faculty of the department. Once again, congratulations and I look forward for your continuous involvement in our journey of excellence.

Yours truly,

Dr. D. R. Patil (Principal)





R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College

Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

**2**: (02563)257328, 257329 Fax No.: 256170-255189

E-mail: dr.drpatil@gmail.com

President Hon. Bhupeshbhai Patel

Principal Dr. D. R. Patil

**Date: April** 7<sup>th</sup>, 2022

To,
Dr. Niranjan Yeole
Scientist, IP Group,
CSIR-National Chemical Laboratory
Dr. Homi Bhabha Road
Pune, 411008, Maharashtra, India

# Dear Dr. Niranjan:

Ref: RCP/3/2022

I take this opportunity to acknowledge your work as a resource person for the "National Seminar on IPR and patenting' organized on 7th April 2022. You have done commendable job for the benefit of the students and the faculty of the department. Once again, congratulations and I look forward for your continuous involvement in our journey of excellence.

Yours truly,

Dr. D. R. Patil (Principal)

Trust's &

# List of students for National seminar on IPR

Sr.no.	Name of students	Class	Subject
1.	Patil Jay Eknath	M.sc II	Biotechnology
2.	Mange Snehlata Suresh	M.sc II	Biotechnology
3.	Kadam Ganesh Dattu	M.scII	Biotechnology
4.	Mahajan Sakshi Dhananjay	M.scII	Biotechnology
5.	Sonawane Nandini Ravindra	M.sc II	Biotechnology
6.	Patil Bhavana Valmik	M.sc II	Biotechnology
7.	Patil Ruchita Himmat	M.sc II	Biotechnology
8.	Bhamre Megha Umesh	M.sc II	Biotechnology
9.	Kulkarni Mayuri Mahendra	M.sc II	Biotechnology
10.	Bidkar Ajinkya Harendra	M.sc II	Biotechnology
11.	Sonawane jayashi himmat	M.sc II	Biotechnology
12.	Wadile Rajshri kashinath	M.sc II	Biotechnology
13.	Paresh Manoj chaudhari	M.sc II	Biotechnology
14.	Raheja Palak prakash kumar	M.sc II	Biotechnology
15.	Desale Pradnya jayvant	M.sc II	Biotechnology
16.	Sonar purushottam somnath	M.sc II	Biotechnology
17.	Patil jayshree Rajendra	M.sc II	Biotechnology
18.	Patil karishma nitin	M.sc II	Biotechnology
19.	Harsola Kruti Bharat	M.sc II	Biotechnology
20.	Sonavane Ashvini rajendra	M.sc II	Biotechnology
21.	Shelake Mitesh Arjun	M.sc II	Biotechnology
22.	Shirsath Ankita Ramesh	M.sc II	Microbiology
23.	Sonawane Ashwini Rajendra	M.sc II	Microbiology
24.	Tamboli Kiran Prakash	M.sc II	Microbiology
25.	Wagh Megha Udesh	M.sc II	Microbiology
26.	Dorik prashant dnyaneshwar	M.sc II	Microbiology
27.	Patil Prerna Sanjiv	M.sc II	Microbiology
28.	Khopade Darshana Abhimanu	M.sc II	Microbiology
29.	Sonawane Ashwini Rajendra	M.sc II	Microbiology
30.	Wagh amrapali soma	M.sc II	Microbiology
31.	Mali Pranil Suryakant	M.sc II	Microbiology
32.	Randive Nikita Devidas	M.sc II	Microbiology
33.	Patil Arati Pramod	M.sc II	Microbiology
34.	Pawar ritika ashok	M.sc II	Microbiology
35.	Chaudhari Tejas Baburao	M.sc II	Microbiology
36.	Patil Mayur Ramkrushna	M.sc II	Microbiology
37.	Borse kajal hiralal	M.sc I	Microbiology
38.	Pawar prajwal Somnath	M.sc II	Microbiology
39.	Jayaswal Puja Narendra	M.sc II	Microbiology
40.	Shinde chetna Dnyanshwar	M.sc II	Microbiology
41.	Girase Sapana Lalsing	M.sc II	Microbiology

42.	Malache Pratiksha Bhimsing	M.sc II	Microbiology
43.	Godhwani Riya Balram	M.sc II	Microbiology
44.	Patil Hemangi Prabhakar	M.sc II	Microbiology
45.	Patil Mahima	M.sc II	Microbiology
46.	Chelani kajal ravikumar	M.sc II	Microbiology
47.	Rajput Nisha Bhatusing	M.sc II	Microbiology
48.	Sonawane Kalyani Ranjit	M.sc I	Microbiology
49.	Mali Sonali Ram	M.sc I	Microbiology
50.	Girase Hritik Sattarsing	M.sc I	Microbiology
51.	Sonawane Sneha Dilip	M.sc I	Microbiology
52.	Dorik Yogita Shivaji	M.sc I	Microbiology
53.	Jadhav shital natthu		Microbiology
		M.sc I	<u> </u>
54.	Patil Sumit Suresh	M.sc I	Microbiology
55.	Magare Rohit Magare	M.sc I	Microbiology
56.	Rajput Prashant Megharajsing	M.sc I	Microbiology
57.	Pawara Manoj Sakharam	M.sc I	Microbiology
58.	Harankar Sachin Pramod	M.sc I	Microbiology
59.	SALUNKHE PUSHKARAJ DILIP	M.sc I	Microbiology
60.	Ahirrao parag kailas	M.sc I	Microbiology
61.	Hajare Mangesh Ganesh	M.sc I	Microbiology
62.	Patil Jayashree Gulabrao	M.sc I	Microbiology
63.	Chaudhari kamini Dnyaneshwar	M.sc I	Microbiology
64.	Sonawane Akshay Jagatarao	M.sc I	Microbiology
65.	Valvi Kshitija sakharam	M.sc I	Microbiology
66.	Behere Kiran Anil	M.sc I	Microbiology
67.	Rajput pradnya rajendra	M.sc I	Microbiology
68.	CHAUDHARI YAMINI SAMBHAJI	M.sc I	Microbiology
69.	Mohite Amol Tukaram	M.sc I	Microbiology
70.	Mali Sonali ram	M.sc I	Microbiology
71.	Wadile Sujay Prakash	M.sc I	Microbiology
72.	Patil Janhavi Jagadish	M.sc I	Microbiology
73.	Jadhav Manish Satish	M.sc I	Microbiology
74.	VASAVE INDRASING VANSING	M.sc I	Microbiology
75.	Sonar Harshal Narendra	M.sc I	Microbiology
76.	Vadnere Hemakshi Rajesh	M.sc I	Microbiology
77.	Deore Smita Jitendra	M.sc I	Microbiology
78.	Borse kajal hiralal	M.sc I	Biotechnology
79.	Girase Dipali Ankush	M.sc I	Biotechnology
80.	Nikam Tejaswini sunil	M.sc I	Biotechnology
81.	Kulthe prashant prabhakar	M.sc I	Biotechnology
82.	Jadhav dipak suklal	M.sc I	Biotechnology
83.	Rawal Nikita Rampalsing	M.sc I	Biotechnology
84.	Patil Nitin Mahendra	M.sc I	Biotechnology
85.	Patil Jagdish yuvaraj	M.sc I	Biotechnology
86.	Patale kalpesha vasudev	M.sc I	Biotechnology
87.	Pratiksha madhukar Chaudhari	M.sc I	Biotechnology

Nikam Rahul	Miscil	Biotechnology
		Biotechnology
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		Biotechnology Biotechnology
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		Microbiology
Mali Dipika Prashant	T.Y.B.sc	Microbiology
Mali Mohini Bhaskar	T.Y.B.sc	Microbiology
	T.Y.B.sc	Microbiology
Sonawane Megha Nagraj	T.Y.B.sc	Microbiology
Patil Gayatri shivaji	T.Y.B.sc	Microbiology
Girase Dhiraj Bharatsingh	T.Y.B.sc	Microbiology
Mahale harshada hiraman	T.Y.B.sc	Microbiology
Patil Nilesh Anil	T.Y.B.sc	Microbiology
Girase Rajshri Narendrasing	T.Y.B.sc	Microbiology
Thakur Devyani Nemichand	T.Y.B.sc	Microbiology
Bagul bhagyashri jayvantarao	T.Y.B.sc	Microbiology
Patil kiran Vilas	T.Y.B.sc	Microbiology
Jadhav kalyani Harpalsing	T.Y.B.sc	Microbiology
Dhangar jagruti subhash	T.Y.B.sc	Microbiology
Salunkhe Jayesh Anil	T.Y.B.sc	Microbiology
patil Nitin bhagwan	T.Y.B.sc	Microbiology
Gopal sarala shivaji	T.Y.B.sc	Microbiology
Patil Suyog Lilachand	T.Y.B.sc	Microbiology
Patil Punam	T.Y.B.sc	Microbiology
Rathod snehal Santosh	T.Y.B.sc	Microbiology
Chavhan Siddhishwari Bharat	T.Y.B.sc	Microbiology
Mali Harshada Santosh	T.Y.B.sc	Microbiology
		Microbiology
	DIPALI CHANDRAKANT VINCHURKAR  Sonawane Megha Nagraj  Patil Gayatri shivaji  Girase Dhiraj Bharatsingh  Mahale harshada hiraman  Patil Nilesh Anil  Girase Rajshri Narendrasing  Thakur Devyani Nemichand  Bagul bhagyashri jayvantarao  Patil kiran Vilas  Jadhav kalyani Harpalsing  Dhangar jagruti subhash  Salunkhe Jayesh Anil  patil Nitin bhagwan  Gopal sarala shivaji  Patil Suyog Lilachand  Patil Punam  Rathod snehal Santosh  Chavhan Siddhishwari Bharat	Patil Jayashree Ashok Misc I Nikam Tejaswini Sunil Misam Tejaswini Sunil Misam Tejaswini Sunil Misc I Patil mayur patil Misc I PAWAR MAHESH RAMESH Misc I Bornare Ketan Rajesh Misc I Bornare Misc I Risc

134.	Salunkhe puja gunvntrao	T.Y.B.sc	Microbiology
135.	Suryavanshi Laxmikant Yogesh	T.Y.B.sc	Microbiology
136.	Patil neha nimbaji	T.Y.B.sc	Microbiology
137.	Patil Divya rajaram	T.Y.B.sc	Microbiology
138.	Koli Rhushikesh Sanjay	T.Y.B.sc	Microbiology
139.	Patil Sayali Prashant	T.Y.B.sc	Microbiology
140.	Rajput Yash Dilip	T.Y.B.sc	Microbiology
141.	Patil Neha Bhagvat	T.Y.B.sc	Microbiology
142.	Patil Neha Dinkar	T.Y.B.sc	Microbiology
143.	Rajput vaishnavi Mansing	T.Y.B.sc	Microbiology
144.	Padmor Nitin Tryambak	T.Y.B.sc	Microbiology
145.	Patil nikita kiran	T.Y.B.sc	Microbiology
146.	Jagdale Payal	T.Y.B.sc	Microbiology
147.	Bodani omprakash simran	T.Y.B.sc	Microbiology
148.	Pawara Karvin jagan	T.Y.B.sc	Microbiology
149.	Varsha vijay patil	T.Y.B.sc	Microbiology
150.	Ahire shubham Himmatrao		Microbiology
150.		T.Y.B.sc T.Y.B.sc	Microbiology
151.	Koli gayatri sunil Magare Sonal Bhagwan	T.Y.B.sc	Ŭ,
152.	<u> </u>	T.Y.B.sc	Microbiology  Microbiology
153.	Chavhan yogita shamkant		i
154.	Pardhi Jayashree Dhansing	T.Y.B.sc T.Y.B.sc	Microbiology  Microbiology
156.	Rathod Jayashri Rajaram		9.
156.	Behere Jayesh vasantrao AHIRE SACHIN GULAB	T.Y.B.sc T.Y.B.sc	Microbiology
			Microbiology
158.	Visawe shubham vasant	T.Y.B.sc	Microbiology
159.	More Ashwini Dilip	T.Y.B.sc	Microbiology
160	Koli Pradip hiralal Patil Ashwini Nandalalbhai	T.Y.B.sc T.Y.B.sc	Microbiology
161. 162.	Jain Monika Ashokchand		Microbiology
162.		T.Y.B.sc	Microbiology
164.	Girase janhavi dilipsing Pawara Vinesh Desaram	T.Y.B.sc T.Y.B.sc	Microbiology  Microbiology
165.	Khaire Ritika Chandrakant	T.Y.B.sc	Microbiology
166. 167.	Pawara Ratnamala Magan	T.Y.B.sc	Microbiology
	Tamkhane monali sanjay Punam Rajendra patil	T.Y.B.sc	Microbiology
168.	, '	T.Y.B.sc	Microbiology
169.	Chaudhari Asmita Hiralal	T.Y.B.sc	Microbiology
170.	More Vaishnavi Narendra	T.Y.B.sc	Microbiology
171.	Pawara Rajendra Riyansing Thakre rohini laxman	T.Y.B.sc	Microbiology  Microbiology
172.		T.Y.B.sc	
173.	Wagh sujata Ashok	T.Y.B.sc	Microbiology
174.	Girase Ritul Pravinsing	T.Y.B.sc	Microbiology
175.	Pawara Rajendra Riyansing	T.Y.B.sc	Microbiology
176.	Jayswal ankita sanjulal	T.Y.B.sc	Microbiology
177.	wadile sayali ravindra	T.Y.B.sc	Microbiology
178.	Karankal kamini sanjay	T.Y.B.sc	Microbiology
179.	rajput pallavi ravindra	T.Y.B.sc	Microbiology

226.	Datil Javashraa Manahar	MColl	Dhysics
	Patil Jayashree Manohar	M.Sc.II	Physics
227.	Ashwini Nimbaji Patil	M.Sc II	Physics
228.	Patil Shraddha Bhausaheb	M.Sc.II	Physics
229.	Patil Dhanashri Ravindra	M.Sc.II	Physics
230.	Chavan ankita upendra	M.Sc.II	Physics
231.	Bagal vedika jagannath	M.Sc.II	Physics
232.	Patil pratiksha	M.Sc.II	Physics
232.	Sonawane Nisha Dhanraj	M.Sc II	Physics
233.	Rajput vrushali vijaysing	M.Sc I	Physics
234.	Pawara chetan Shildar	M.Sc I	Physics
235.	Patil Nayna Rajendra	M.Sc I	Physics
236.	Patil khushali nitinbhai	M.Sc I	Physics
237.	Jaware Goral Yogesh	M.Sc I	Physics
L.	•	•	



Dr. D. R. Patil PRINCIPAL

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Shirpur, Dist.-Dhule (M.S.) 425405

# **Guidance by Researchers in Patel College**

10:48 PM

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दैनिक राष्ट्रउदय ३०...





आर. सी. पटेल कला. वाणिज्य व विज्ञान महाविद्यालयात दिवसाच्या सत्रात प्रा. डॉ. लक्ष्मीकांत झंवर, प्रा. डॉ. पायल विद्यापीठाच्या प्रा. डॉ. पायल वंदे, डॉ. निरव मजुमदार यांचे वंदे यांनी 'परस्पर आमासी मार्गदर्शनपर व्याखान संपन्न झाले.

प्रथम सत्रात अहमदाबाद येथील उद्योजक डॉ. निरव मजुमदार म्हणाले की, शिक्षकाने व्यक्ती निर्माणातून राष्ट्रानिर्माणाकडे योगदान दयावे. एकविसाव्या शतकातील शिक्षण म्हणजे विद्यार्थ्यांना या नवीन जगात यशस्वी होण्यासाठी आवश्यक कौशल्य देणे व त्या कौशल्यांचा अभ्यास करण्यासाठी आत्मविश्वास वाढविण्यात मदत करणे या बाबत त्यांनी मार्गदर्शन केले

द्वितीय सन्नात ' ६ से स

साध्यता' या विषयावर शिरपूर येथील एच.आर. पटेल फार्मसी महाविद्यालयाचे डॉ. लक्ष्मीकांत चौथ्या झंबर व तिसऱ्या सत्रात एन.एम.आय.एम.एस. अभिमत वर्गासाठी प्रभावी संप्रेषण धोरणे' या विषयावर आपले मत मांडले

> महाविद्यालयातील सूक्ष्मजीवशास्त्र व जैवतंत्रज्ञान विभागाच्या संयुक्त विद्यमाने अखिल भारतीय तंत्रशिक्षण परिषदेच्या प्राध्यापकांच्या विकासासाठी राबवत असलेल्या ए.आय.सी.टी.ई. प्रशिक्षण आणि शिक्षण (अटल) प्रकल्पांतर्गत पाच विवसीय राष्ट्रीय स्तरावरील 'लिडरशिप अँन्ड एक्सलन्स इन हायर एज्युके शन' या विषयावर ऑनलाईन झूम ऑपच्या

राष्ट्रीय प्राध्यापक विकास कार्यक्रमाचे सत्र उत्साहात संपन्न

प्राचार्य डॉ. डी. आर. पाटील यांच्या मार्गदर्शनाखाली महाविद्याल यातील सक्ष्मजीवशास्त्र विभाग प्रमुख डॉ. संदीप पी. पाटील, जैवतंत्रज्ञान विभागाचे प्रमुख डॉ. रविन्द्र एच. पाटील तसेच प्रा. महेश पाटील, डॉ. लीना शिरसाठ, डॉ. मोहिनी पाटील, प्रा. अमृता जोशी, प्रा. अश्विनी पाटील, प्रा.हर्षा परदेशी, प्रा.वर्षा जयस्वाल, प्रा.विशाखा डोके, प्रा.शुभम यादव, प्रा. रत्नेश्वर भावसार, गणेश सोनार, संजय मोरे, बन्सीलाल चौधरी, डी. यु. पटेल, संदेश राजपूत, मेहल गुजराथी, लक्ष्मीकांत मोरे आदी आयोजनासाठी प्रयत्नशील आहेत.

# Research promotion activities under IPR cell and ARC/RAC

The college has established Academic research Committee (ARC) which promotes the research collaboration and research culture among the faculty members. ARC promotes the faculty members and students to undertake research work by providing basic research facilities, necessary guidance etc. The college has subscribed the Turnitin facility for detecting the plagiarism in their academic/research writing. The research committee of the college undertakes the review of the research projects/papers before submission to funding agencies or journals. One of the faculty of the college is working on Research Committee of the KBC North Maharshtra University. We have collaboration with many academic institutes, research labs, industry. Our knowledge resource center (KRC) is well equipped with many journals, e-books, many reference books and facilities such as N-LIST. Due to these facilities we have significant number of publications in peer reviewed journals of repute and patents. Research and innovative ideas of the scholars are cultivated. From the year 2023-24, as per the New Education Policy 2020 (NEP 2020), the college is conducting one month research/industrial internship, On job training (OJT) for first year students of all PG courses. This has helped students to understand industry needs, skill sets required for taking career in research and industry.

Dr. R. H. Patil Coordinator, innovation cell R. C. Patel Educational Trust's

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# (http://ipindia.nic.in/index.htm)



(http://ipindia.nic.in/index.htm)

Application Details				
APPLICATION NUMBER	202241004044			
APPLICATION TYPE	ORDINARY APPLICATION			
DATE OF FILING	24/01/2022			
APPLICANT NAME	<ol> <li>Dr. C. Zozimus Divya Lobo</li> <li>Dr. Dhananjay S. Talwankar</li> <li>Dr. Keyur D. Bhatt</li> <li>Dr. Krunal Modi</li> <li>Dr.Ninad Shridharrao Dharkar</li> <li>Dr Manish Upadhyay</li> <li>Dr. Sandip P. Patil</li> </ol>			
TITLE OF INVENTION	Combination treatments for bacterial infections using photochemical and antibiotic combination			
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING			
E-MAIL (As Per Record)	divyaraja812012@gmail.com			
ADDITIONAL-EMAIL (As Per Record)				
E-MAIL (UPDATED Online)				
PRIORITY DATE				
REQUEST FOR EXAMINATION DATE				
PUBLICATION DATE (U/S 11A)	04/02/2022			

# **Application Status**

# Awaiting Request for Examination View Documents Filed Published RQ Filed Under Examination Disposed In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in





Controller General of Patents, Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Application Details			
APPLICATION NUMBER	201621041575		
APPLICATION TYPE	ORDINARY APPLICATION		
DATE OF FILING	06/12/2016		
APPLICANT NAME	NORTH MAHARASHTRA UNIVERSITY		
TITLE OF INVENTION	A MEDIUM COMPOSITION, KIT AND A METHOD FOR THE DETECTION OF HYALURONIDASE AND ITS INHIBITOR		
FIELD OF INVENTION	BIOTECHNOLOGY		
E-MAIL (As Per Record)	info@novoipr.com		
ADDITIONAL-EMAIL (As Per Record)			
E-MAIL (UPDATED Online)			
PRIORITY DATE			
REQUEST FOR EXAMINATION DATE			
PUBLICATION DATE (U/S 11A)	(31/07/2020)		

Application Status	
	View Documents

Filed Published RQ Filed Under Examination

**Disposed** 

# पेटेंट कार्यालय शासकीय जर्नल

# OFFICIAL JOURNAL OF THE PATENT OFFICE

निर्गमन सं. 26/2022 ISSUE NO. 26/2022

शुक्रवार FRIDAY दिनांकः 01/07/2022

DATE: 01/07/2022

# पेटेंट कार्यालय का एक प्रकाशन PUBLICATION OF THE PATENT OFFICE

(19) INDIA

(22) Date of filing of Application :24/05/2022

(43) Publication Date: 01/07/2022

# (54) Title of the invention: A LOW COST SYSTEM FOR HEALTH MONITORING WITH MAINTAINING COVID 19 PROTOCOL

(51) International :A61B0005000000, G06Q0050220000, A61B0005020500, A61B0005120000,

classification H04R0025000000

(86) International
Application No
Filing Date

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:01/01/1900

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Publication No
(61) Patent of Addition to
Application Number
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Application Number
Filing Date
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SNA
SNA

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# (57) Abstract:

The present invention relates to a low-cost system (100) for health monitoring with maintaining COVID-19 protocol. The system (100) comprises a temperature sensor (102), a humidity sensor (104), a central processing unit, a user display unit (112), and a bluetooth module (108). The temperature sensor (102) is configured to monitor the patients' body temperature level. The humidity sensor (104) is configured to monitor the patients' body humidity level. The central processing unit (106) is operationally connected with the temperature sensor (102) and humidity sensor (104). The present invention provides a low-cost system (100) for health monitoring with maintaining Covid-19 protocol that can help the patients to reduce physical contact, wait time, and total health costs while also decreasing medical staff strain, burden, and stress.

No. of Pages: 15 No. of Claims: 6







पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No.

407113-001

तारीख / Date

09/02/2024

पारस्परिकता तारीख / Reciprocity Date" :

देश / Country

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो ADVANCED HIGH-SPEED COMPUTING DEVICE से संबंधित है, का पंजीकरण, बेणी 14-02 में 1.Dr. Dinesh Dattatray Patil 2. Mr. P. Marimuktu 3.Mr. Girish Bhagwant Desale 4.Dr. Swati Kishor Borse 5.Mr. Bhanudas Suresh Panchbhai के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 14-02 in respect of the application of such design to ADVANCED HIGH-SPEED COMPUTING DEVICE in the name of 1.Dr. Dinesh Dattatray Patil 2, Mr. P. Marimuktu 3, Mr. Girish Bhagwant Desale 4.Dr. Swati Kishor Borse 5 Mr. Bhanudas Suresh Panchbhail

डिजाइन अथिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्ययीन प्रावधानों के अनुसरण में। In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

उद्यान भी व्यंडिय महानियंत्रका पेटेंट, डिजाइन आर व्यापार जेड़,

Contro la General of Patro e, Dissigns one Track Marks

ारस्वरिकता तरीख (परि कोई हो। जिसकी अनुमति ही गई है तथा देश का नाम। दिजाइन का खरवाधिकार पंजीवरण की तारीख से दस दयों के लिए होगा जिसका बेस्तर, अधिरियम यूर्व निष्य के विषया के अधीन, पांच वर्ज के अतिरत्त अवधि के तिए किया जा स्वेगा। इस प्रमान एवं का उन्नोग विधिक के पैचा हैये अधवा विधेश में पंजीकरण प्राप्त करने के लिए नहीं ही सकता है।

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A MICHAEL DESCRIPTION PROPERTY CHEEK CAMERINES OF BUSINESS HOW THE WORLD WHEN PROPERTY WHEN PROPERTY WHEN THE PROPERTY W त्र पात करावर, (क्रिकेशको निवासक) विकार, उन्हाराताहरू के सकत उन्होंने करावेग्य, माना गरकार ओद्धिकंपात्त्रकार्यय, साहतवाहरू व व करावेग्य कावद महत्त्वत होन्द्रिक संदर्भ के स्ट्रिक संदर्भ के स्ट्रिक संदर्भ के स्ट्रिक स्ट्रिक स्ट्रिक संदर्भ अनुभावता, कावताह कावदिकार्यत, बोहित संदर्भ के स्ट्रिक स्ट्रिक संदर्भ के स्ट्रिक CONTRACTOR TO SOLD BACKWAY CONTRACTOR AND ACTUAL TO SOLD STREET, SOLD and the Constraint of India, College and Annie and Annie and Annie (Allege and Annie (Allege and Annie (Allege कि कि कार्य प्रकार (वेदिक कालाव कार्याना कार्या सरकार स्टिप्ट अर्थ कार्या द्वारा प्रकार की कार्या की जिल्ला कार्या क E. IL. BESCHOOD DIESTE OND OTTO, NAMES FOR PRINTED BY BUT ACTE COMES OF PRINCES SEXTANDED SOND FROM किताइन के पंजीकरण का प्रमाण पत्र को Certificate of Registration of Design المستقلة المتحدث فأأداه المشيئونين كناس المتحدين ومناه كدل الشكجال برابرتي تنسي خلومت بد وججج وجه المناجع وأياج بعيالة के रहार पहुंच रहेर प्रदेश हेर्यान का विशेष , काल सरकार, केंद्रिक संपन्न कालेक्ट पाल सरकार, buellernal Free of Office, Observation of India. chigo medica anthe mes sama higo hus sur una mes antenuesca hance citie en filler such antenuesta elegan hus such antenuesta (404815-001), mes antenuesta hance commendador de la sur una mesa esta elegan hus such antenuesta elegan hus such antenuesta elegan eleg इतिह एक्सेट क्रिकेट - क. ज्यार - इन वर्ट स्टब्सेट बेरिक्स स्वी क्रिया - सवा करका महिल वर्षा अस्तिम आर्थ सरकार समास्थास रियोक्स एक्टर एक्सेट क्रिकेट - क. ज्यार - इन वर्ट स्टब्सेट बेरिक्स स्वी क्रिया - सवा करका महिल वर्षा अस्तिम सरकार समास् nh nich pole linet die ern einer der der der eine Aller er er er er er er er einen der eine der eine der eine d प्रमाणित किया जाता है कि मृतम् प्रति में वर्णित विजाइन जो BIOMETRIC-ENABLED MAILING DEVICE री सुर्वित है, का पंजीकरण, बेंगी 14-02 में 1.Mr. P. Marimuktu 2. Mr. Girish Bhagwant Desale 3. Mr. Bhanudas Suresh Panchbhal के चन ने उपर्युक्त संख्या और तारोक में कर लिया गया है। Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 14-02 in respect of the application of such design to BIOMETRIC-ENABLED MAILING DEVICE in the name of 1.Mr. P. Marimuktu 2. Mr. Girish Bhagwant Desale 3. Mr. Bhanudas Suresh Panchbhal 🔫 ः विकार्न क्योरिनियम, 2000 तथा विजारन नियम, 2001 के प्राथमिन प्रावधानी के प्रानुसरण में। In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001. - National Physics of 

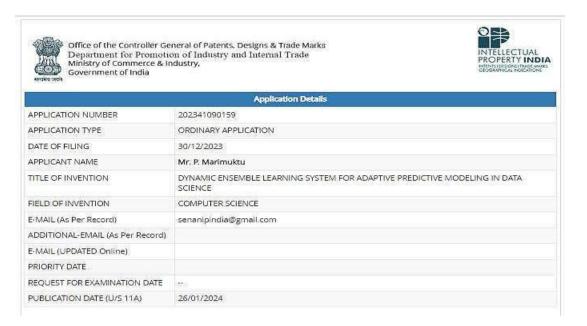
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# Patent1



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Chairperson: Dr. D. R. Patil

Sr.	Subject	Name of the	Affiliation
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		Dr. A. M. Patil	
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			Shindkheda, Dhule
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		Dr. R. Z. Sayyad	PSGVP'S ASC College, Shahada
		Dr. K. P. Narkhede	MJ College, Jalgaon
3.	Biotechnology	Dr. R. H. Patil	R. C. Patel Arts, Comm. & Sci. College, Shirpur
		Dr. R. Z. Sayyad	PSGVP'S ASC College, Shahada
		Dr. K. P. Narkhede	KCE Society's MJ College, Jalgaon
4.	Geography	Dr. P. Y. Magare	R. C. Patel Arts, Comm. & Sci. College, Shirpur
		Dr. B. D. Patil	
		Dr. Shailesh A.Wagh	Arts, Comm. & Sci. College, Chopda
5.	Economics	Dr. A. G. Sonawane	R. C. Patel Arts, Comm. & Sci. College, Shirpur
		Dr. R. P. Patil	GET'S Arts, Comm. & Sci. college, Nagaon
		Dr. Avinash Nikam	PSGVP'S Arts, Comm. and Sci. College,
			Shahada
6.	Marathi	Dr. F. M. Bagul	SPDM College, Shirpur
		Dr. S. S. Chaudhari	R. C. Patel Arts, Comm. & Sci. College, Shirpur
		Dr. K. N. Sonawane	Arts, Comm. & Sci. College, Chopda
7.	Hindi	Dr. S. M. Patil	R. C. Patel Arts, Comm. & Sci. College, Shirpur
		Dr. Rupali Chaudhari	P. O. Nahata College, Bhusawal
		Dr. Jayshree Gavit	VWS'S Arts, Comm. & Sci. College, Dhule
8. History Dr. R. D. Jadhav		Dr. R. D. Jadhav	R. C. Patel Arts, Comm. & Sci. College, Shirpur
		Dr. M. J. Verma	SPDM College, Shirpur
		Prin. Dr. B. N. Patil	M.M Arts, Comm. & Sci. College, Pachora

Dr. D. R. Patil (Principal)



 $R.\ C.\ Patel$  Arts, Commerce and Science College, Near Karwand Naka, Shirpur.

Ph. No. **1**. (02563) 257328, 257329 Fax. (02563) 255189 e-mail: contact@rcpasc.ac.in



# R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College

Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

**2**: (02563)257328, 257329 Fax No.: 256170-255189

E-mail: dr.drpatil@gmail.com

President Hon. Bhupeshbhai Patel

Principal Dr. D. R. Patil

Ref: RCP. /2019 Date: Oct. 10, 2019

To, Dy. Registrar, Research, KBCNMU, Jalgaon

Subject: Research Advisory Committee of R. C. Patel Arts, Comm. & Sci. College, Shirpur

# **Dear Sir:**

Please find enclosed herewith the Research Advisory Committee (RAC) of R. C. Patel Arts, Comm. & Sci. College, Shirpur. The Committe is constituted as per the university circular and the guidelines therein.

Kindly accept the same and oblige.

Yours Truly,

Dr. D. R. Patil (Principal) R. C. Patel Educational Trust's

Encl: As above



# R. C. Patel Educational Trust's

# R. C. Patel Arts, Commerce and Science College

Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

**2**: (02563)257328, 257329 Fax No.: 256170-255189

E-mail: dr.drpatil@gmail.com

President Hon. Bhupeshbhai Patel

Principal Dr. D. R. Patil

# Research Advisory Committee (RAC, 2021-22) of R. C. Patel Arts, Commerce and Science College, Shirpur, Dist: Dhule

Chairperson: Dr. D. R. Patil

Sr.	Subject	Name of the member	Affiliation	
no	Dlaveice	Dr. D. D. Dodil	D. C. Dotal Arta Comm. & Soi College Chimpun	
1.	Physics	Dr. D. R. Patil Dr. A. M. Patil	R. C. Patel Arts, Comm. & Sci. College, Shirpur	
			Ducton College Amelyon	
2.	Missobiology	Dr. M. S. Wagh	Pratap College, Amalner	
2.	Microbiology	Dr. R. H. Patil Dr. S. P Patil	R. C. Patel Arts, Comm. & Sci. College, Shirpur	
			R. C. Patel Arts, Comm. & Sci. College, Shirpur	
		Dr. R. Z. Sayyad	PSGVP'S ASC College, Shahada	
2	D' . 1 1	Dr. K. P. Narkhede	MJ College, Jalgaon	
3.	Biotechnology	Dr. R. H. Patil	R. C. Patel Arts, Comm. & Sci. College, Shirpur	
		Dr. R. Z. Sayyad	PSGVP'S ASC College, Shahada	
		Dr. K. P. Narkhede	KCE Society's MJ College, Jalgaon	
4.	Geography	Dr. P. Y. Magare	R. C. Patel Arts, Comm. & Sci. College, Shirpur	
		Dr. B. D. Patil		
		Dr. Shailesh A.Wagh	Arts, Comm. & Sci. College, Chopda	
5.	Economics	Dr. A. G. Sonawane	R. C. Patel Arts, Comm. & Sci. College, Shirpur	
		Dr. R. P. Patil	GET'S Arts, Comm. & Sci. college, Nagaon	
		Dr. Avinash Nikam	PSGVP'S Arts, Comm. And Sci. College, Shahada	
6.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
		Dr. S. S. Chaudhari	R. C. Patel Arts, Comm. & Sci. College, Shirpur	
		Dr. K. N. Sonawane	Arts, Comm. & Sci. College, Chopda	
7.	Hindi	Dr. S. M. Patil	R. C. Patel Arts, Comm. & Sci. College, Shirpur	
		Dr. Rupali Chaudhari	P. O. Nahata College, Bhusawal	
		Dr. Jayshree Gavit	VWS'S Arts, Comm. & Sci. College, Dhule	
8.	History	Dr. R. D. Jadhav	R. C. Patel Arts, Comm. & Sci. College, Shirpur	
		Dr. M. J. Verma	SPDM College, Shirpur	
		Prin. Dr. B. N. Patil	M.M Arts, Comm. & Sci. College, Pachora	
9.	Commerce and	Dr. A. G. Sonawane	R. C. Patel Arts, Comm. & Sci. College, Shirpur.	
	Management	Dr. D. D. Bhakkd	S. P. D. M. ACS College, Shirpur	
	-	Dr. D. M. Gangurde	PSGVP'S ASC College, Shahada	
10	Psychology	Dr. M. B. Bachute	R. C. Patel Arts, Comm. & Sci. College, Shirpur	
		Dr. N. S. Dongre	S. P. D. M. College, Shirpur	
		Dr. S. H. Khalane	Z. B. Patil College, Dhule	
11	Chemistry	Dr. D. R. Patil	R. C. Patel Arts, Comm. & Sci. College, Shirpur	
	•	Dr. J. D. Rajput	B. P Arts, SMA Sci &Comm. College, Chalisgaon	
			R. Patel College of Pharmacy, Shirpur	

Dr. D. R. Patil (Principal)

R. C. Patel Arts, Commerce and Science College, Near Karwand Naka, Shirpur.

Educational

Ph. No. **1**. (02563) 257328, 257329 Fax. (02563) 255189 e-mail: contact@rcpasc.ac.in



# R. C. Patel Educational Trust's R. C. Patel Arts, Commerce and Science College

Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

**2**: (02563)257328, 257329 Fax No.: 256170-255189

E-mail: dr.drpatil@gmail.com

**President** Hon. Bhupeshbhai Patel

**Principal** Dr. D. R. Patil

**Ref: RCP.** /2021 Date:

June 15, 2021

To. Dy. Registrar, Research, KBCNMU, Jalgaon

Subject: Research Advisory Committee of R. C. Patel Arts, Comm. & Sci. College, Shirpur for June 2021-22

# Dear Sir:

Please find enclosed herewith the Research Advisory Committee (RAC) of R. C. Patel Arts, Comm. & Sci. College, Shirpur. The Committe is constituted as per the university circular and the guidelines therein.

Kindly accept the same and oblige.

Yours Truly,

Dr. D. R. Patil (Principal)

Encl: As above



# Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Umavinagar, Jalgaon - 425 001 (Maharashtra) INDIA

(formerly North Maharashtra University, Jalgaon)

# Prof. Vijay L. Maheshwari

M.Sc., Ph.D.

VICE-CHANCELLOR

No.KBCNMU/1/VC-109/ 159 /2023

1/6/2023

# OFFICE ORDER

Sub: Nomination as a member on Board of Research, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon.

In exercise of powers conferred upon me under Section 59(2)(f) of Maharashtra Public Universities Act,2016, I, Prof.Vijay L.Maheshwari, Vice-Chancellor, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, do hereby nominate following two teachers from colleges as a member on the Board of Research with immediate effect for a term as envisaged under Section 62 of Maharashtra Public Universities Act,2016.

 Dr.G.H.Sonawane, Kisan Mahavidyalaya, Parola

12.

Z. Dr.R.H.Patil,

R.C.Patel Arts,Sci.& Commerce College,

Shirpur

(Prof.Vijay L.Maheshwari) Vice-Chancellor

# Copy to:-

- 1. Dr.G.H.Sonawane, Kisan Mahavidyalaya, Parola Dist. Jalgaon
- 2. Dr.R.H.Patil, R.C.Patel Arts, Sci. & Commerce College, Shirpur
- 3. Principal, Kisan Mahavidyalaya, Parola
- 4. Principal, R.C.Patel Arts, Science & Commerce College, Shirpur
- 5. Pro Vice-Chancellor, KBCNMU, Jalgaon
- 6. Director, Innovation, Incubation & Linkages, KBCNMU, Jalgaon
- 7. All Deans of Faculties, KBCNMU, Jalgaon
- 8. All Actg. Deans of Faculties, KBCNMU, Jalgaon
- 9. Finance & Accounts Officer, KBCNMU, Jalgaon
- 10. Registrar, KBCNMU, Jalgaon



# कवरित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

(पूर्वीचे उत्तर महाराष्ट्र विद्यापीठ, जळगाव)

Date: 06/06/2022

# KBCNMU/DIIL/BoR/ 05 /2022

To,		
1.	Hon'ble Prof. V. L. Maheshwari, Vice Chancellor,	Chairman
2.	Prof. S. T. Ingle, Pro-Vice Chancellor	Member
3.	Prin. R. S. Patil, Dean, Faculty of Science & Technology,	Member
4.	Prin. A. S. Rane, Dean, Faculty of Interdisciplinary Studies,	Member
5.	Prin. P. M. Pawar, Dean, Faculty of Humanities,	Member
6.	Prof. A. P. Dongre, Dean, Faculty of Commerce & Management	Member
7.	Prin. V.R. Patil, Associate Dean, Faculty of Pharmacy	Member
8.	Prin. Y. U. Reddy, Associate Dean, Faculty of Law	Member
9.	Dr. Mujahid Hussain, Associate Dean, Faculty of Engineering	Member
10.	Dr. A. P. Giri, NCL, Pune	Member
11.	Prof. M. M. Tapkir, Pune	Member
12.	Dr. Avinash Avalgaonkar, Pune	Member
13.	Dr. Rashmi M. Oza, Mumbai	Member
14.	Prof. J. B. Naik, Director, UICT, KBCNMU, Jalgaon	Member
15.	Prof. S. R. Kolhe, Director, School of Computer Sciences	Member
16.	Dr. R. H. Patil, Shirpur	Member
17.	Prin. Gauri Rane, Jalgaon	Member
18.	Prof. B. N Jagtap, Mumbai	Member
19.	Dr. Ajit Patankar, Mumbai	Member
20.	Dr. Pramod Pabrekar, Consultant, RUSA, Mumbai	Member
21.	Prof. Vilas Sapkal, Amravati	Member
22.	Dr. Sudam Patil, Jalgaon	Member
23.	CA Manoj S. Disa, Dhule	Member
24.	Dr. Sushil Bahekar, Aurangabad	Member
25.	Dr. Purushottam Devang, Banglore	Member

# Dear Sir/Madam,

I am happy to inform you that, this university has constituted Board of Research as per section 59 of Maharashtra Public Universities Act, 2016 and you have been nominated as eminent members of Board of Research by the Hon'ble Chancellor & Vice Chancellor.



# कवयित्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

(पूर्वीचे उत्तर महाराष्ट्र विद्यापीठ, जळगाव)

In this connection, I am informed you that, the meeting of Board of Research (BoR) will held on 16/06/2022 @ 11.30 am through online mode under the Chairmanship of Hon'ble Vice Chancellor of this university.

You are requested to attend the meeting and oblige. Thanking you,

Link: Join Zoom Meeting:

https://us06web.zoom.us/j/81140757847?pwd=S3hzQjdSZXFNSmFaSGtXS1VKS1hydz09

Meeting ID: 811 4075 7847

Passcode: 515959

Yours faithfully

(Prof. Bhushan L. Chaudhari) Member Secretary

Encl: Agenda

Copy to: 1) Hon'ble Vice-Chancellor office, KBCNMU, Jalgaon

- 2) Hon'ble Pro-Vice Chancellor office, KBCNMU, Jalgaon
- 3) Finance & Accounts Officer, KBCNMU, Jalgaon

Agenda

- 1. Encourage the teacher to take up research in emerging areas at individual and interdisciplinary ways.
- 2. University has setup rules and regulations for Ph.D. programmes. Further discuss in details.
- 3. University has various schemes towards financial support for research activities. Further discuss in details.
- 4. To discuss various issues regarding involvement of industries in research activities.
- 5. Triveni Business Summit organized by the university involving students teachers and industrialist together. Organization of such event shall be discuss.



R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College

Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

**a**: (02563)257328, 257329 Fax No.: 256170-255189 E-mail: dr.drpatil@gmail.com

President Hon. Bhupeshbhai Patel

Principal Dr. D. R. Patil

Date-07/08/2019

To,

Dr Avinash Nikam,

PSGVP M'S Arts Commerce and

Science College Shahada.

Sub-Regarding RAC Meeting to be held on 11/8/2019

Dear Sir,

As per the subject cited above, it is glad to inform you that our research scholar from Humanities Faculty doing their research very well. The Meeting of Research Advisory Committee is call on 11/8/2019 at 9:30 am/pm, in which Mrs. Manisha V. Chaudhari will do her presentation through PPT.

Therefore it is requested you to kindly remain present to be aforesaid RAC Meeting and gives your esteem suggestions to be Research Scholar.

Thanking You.

Dr.R.H. Patil

Co-Coordinator

169=2



R.C.P.E.T.

R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College
Karwand Naka, Shirpur 425405, Dist - Dhule, Maharashtra

2: (02563)257328, 257329 Fax No.: 256170-255189

E-mail: dr.drpatil@gmail.com

President Hon. Bhupeshbhai Patel

Principal Dr. D. R. Patil

Date-12/02/2020

To.

Dr Ravindra P.Patil,

GES'S Arts Commerce and

Science College Nagaon.

Sub-Regarding RAC Meeting to be held on -16/02/2020.

Dear Sir,

As per the subject cited above, it is glad to inform you that our research scholar from Humanities Faculty doing their research very well. The Meeting of Research Advisory Committee is call on 16 /02/2020 at 10.00 am in which Mrs. Manisha V. Chaudhari will do her presentation through PPT.

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Thanking You.

Dr.R.H. Patil

Co-Coordinator

Serial 1

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R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College

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President Hon. Bhupeshbhai Patel

Principal Dr. D. R. Patil

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To,

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Co-Coordinator

169=2



R.C.P.E.T.

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President Hon. Bhupeshbhai Patel

Principal Dr. D. R. Patil

Date-12/02/2020

To.

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GES'S Arts Commerce and

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Dr.R.H. Patil

Co-Coordinator

Serial 1

PROPERTY OF THE PROPERTY OF THE PARTY OF THE

#### Activities under Indian Knowledge System (IKS)

For the majority of recorded history, the Indian subcontinent—home to the world's oldest continuously existing civilization—has dominated knowledge and manufacturing globally. a Dharmic civilization that prioritized the growth of all facets of mankind while emphasising harmony with one's surroundings, oneself, and the cosmos as a whole. Recent events worldwide have made it abundantly clear that the existing paradigms of development are unsustainable and seriously at odds with the natural world. There is an urgent need for new development paradigms, as evidenced by the growing disparities in the modern world. There is an Indian way that aims to promote everyone's welfare while still being sustainable.

#### IKS component in curriculum

Skilled human resource is a prerequisite in higher education, and it is to be acquired through thorough knowledge of theoretical concepts and hands-on laboratory methods of the subject. The Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon has adopted a department-specific model as per the guidelines of UGC, NEP-2020 and the Government of Maharashtra. Several faculty members of the college are working as members for the Board of Studies various subjects and they have contributed in the design of IKS syllabus. The board has prepared the syllabus for the first-year undergraduate of Microbiology, Biotechnology, Physics etc. The syllabus cultivates theoretical and practical know-how of different fields of Microbiology. The contents of the syllabus have been prepared to accommodate the fundamental aspects of various disciplines of Microbiology and to build the foundation for various applied sectors of Microbiology. Besides this, in the first year, the students will be enlightened with the skill related to agricultural microbiology and microbial analysis of soil, water and air, which will enhance students' employability and sustainable development.



Dr. D. R. Patil

R. C. Patel Educational Trust's

R. C. Patel Arts, Commerce and Science College
Shirpur, Dist.-Dhule (M.S.) 425405

#### IKS course of two credits in FYUG program in Microbiology

	Course Category: Major Specific IKS (DSC)  Type: Theory  Course Credits: 02  University Assessment (UA): 30 Marks	
Course Title: Indian knowledge system and history of Microbiology		
Total Contact Hours: 30 (2/week)		
College Assessment (CA) Marks: 20 Marks		
Course Objectives:		
• To complement the students with the basic k	nowledge about microbial history and	IKS
Course Outcomes: After successful completion of this course students are expected to:		Cognitive level
know the Indian Knowledge system in Microbiology		1
learn about traditional Indian fermented food		1
• learn about traditional Indian fermented food	aware about contribution of various researcher of Indian origin	
	er of Indian origin	
		1

- o Contribution of Atherva Veda and Sege Kannva
- o Contribution of Sage Baadarayani and Sage Chatana
- o Sage Kannva and Agni Hotra
- Vedic scientific terms for microorganisms
  - o Knowledge of Medical Microbiology
  - o Microbial transfer and Madhav Nidan
  - Knowledge of communicable diseases
  - o Herbal remedies for microbial infection
- Ancient Indian bacteriology

#### Unit 2: Traditional Indian fermented food

(8 L)

- Milk-based fermented foods
- Cereal and legume-based fermented foods
- Milk and cereal/legume-based fermented foods
- Vegetable-based fermented foods

#### Unit 3: Contributions of researchers from Indian origin

(6 L)

- Ananda Mohan Chakraborty,
- Subba Rao,
- Natteri Veeraraghavan,
- Khem Shahani,
- R. Ananthanarayan etc.

#### **Unit 4: Historical developments**

(2 T )

- Spontaneous generation (abiogenesis) Concept and experimental evidences to prove it
- Concept of Prokaryotic (Microorganisms) and Eukaryotic cells
- Discovery of Microscope

#### SEMESTER-II Major Course (DSC-5) BT-122: Ancient Science (IKS) (Theory)

Total Hours: 30 (2/week) Credits: 2

Total I	Hours: 30 (2/week) Credits: 2		
Course	■ To make students understand the role and importance of ancier	nt knowle	dge in
Objectives	science and technology		
	<ul> <li>To make students understand IKS approach to Healthcare, Medicin</li> </ul>	e, Microb	iology,
	Surgery, and Yoga etc.		
	<ul> <li>To explain importance of holistic health care system through Ayurve</li> </ul>	d	
Course	After successful completion of this course, students are expected to:	Cognitive	Level
Outcomes	<ul> <li>learn importance of ancient bhartiya scientific knowledge and its</li> </ul>	2	
	utility in current scenario.		
	<ul> <li>understand the significance of study of science &amp; technology and</li> </ul>	2	
	their potential application		
	· exlain the meaning of Ayurveda and exemplify tridosh with	2	
	elaboration		
	<ul> <li>elaborate the importance of life style management through</li> </ul>	2	
	ayurvedic practices		
Unit	Contents	-	Hours
	Science and technology in ancient India		
	Introduction and importance of IKS		
	Contribution of ancient Indian scientist in science and technology		
	Concept of Matter, Life and Universe, Gravity		
TT 14 T	Sage Agastya's Model of Battery		
Unit I	Laboratory and Apparatus		08
	Dyes, Paints and Metallurgy		
	Velocity of Light		
	Sun, Earth, Moon, and Eclipses, Earth is Spherical and Rotation of Earth		
	Concepts of Zero and Pi, Number System	2 2 11 11	
	Importance of IKS in life science		
	Ethnic Studies		
Unit II	Life Science in Plants, Anatomy, Physiology, Agriculture, Ecology and Environment.		07
	<ul> <li>Ayurveda, Integrated Approach to Healthcare, Medicine, Micro Surgery, and Yoga, etc.</li> </ul>	obiology,	
	Tridosha		
II!s III	Definition and meaning of Ayurveda		00
Unit III	Charak sahita main points only.		08
	The concept of tridosha and its effect on body		
	•		

2217

## Faculty of college working on university Board of studies of university and some autonomous college:

॥ अंतरी पेटब् ज्ञानज्योत ॥



#### कवियत्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव

#### Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Ref.No. KBCNMU/21/ BOS/Microbiology /1/73/2023

प्रति.

rī,	
1. Dr. Ketan Premchand Narkhede, Jalgaon	Chairman
2. Dr. Ravindra Himmatrao Patil, Shirpur	Member
3. Dr. Bhushan Liladhar Chaudhari, K.B.C.N.M.U. Jalgaon	Member
4. Dr. Navin Dharmaji Dandi, K.B.C.N.M.U. Jalgaon	Member
5. Dr. Rajendra Dharmaji Shelar, Dhule	Member
6. Dr. Mrs. Sangita Jagdish Chandratre, Jalgaon.	Member
7. Dr. Swapnil Satish Joshi, Dhule	Member
8. Dr. Sandip Prakash Patil, Shirpur	Member
9. Dr. Riyazal Zafarali Sayyed, Shahada	Member
<ol> <li>Dr. Anirudhha V. Petkar, Chhatrapati Sambhajinagar</li> </ol>	Member
11. Dr. Bhupesh Patil, Mumbai	Member
12. Patil Janhavi Jagadish, Shirpur.	Invitee Member
13. Patil Jagruti Nimba, Shahada	Invitee Member

विषय -: मायक्रोबायोलॉजी तदर्थ अभ्यासमंडळाच्या प्रथम सभेस उपस्थित राहणेबाबत..

#### महोदय/ महोदया,

उपरोक्त विषयाच्या अनुषंगाने कळिवण्यात येते की, **मायक्रोबायोलॉजी** तदर्थ अभ्यासमंडळाची प्रथम सभा वार शुक्रवार, दि.१२.०५.२०२३ रोजी सकाळी १०.३० वाजता विद्यापीठ **परीक्षा भवनाच्या कक्ष** क्रमांक ७०७ मध्ये आयोजित करण्यात आली आहे.कृपया सर्वांनी उपस्थित राहून विद्यापीठास सहकार्य करावे ही विनंती.

#### \* सभेतील कार्यक्रम पत्रिका \*

विषय क्र.१: महाराष्ट्र विद्यापीठ सार्वजनिक कायदा २०१६ च्या कलम 34(4)(d) अन्वये विद्याशाखेवर नामनिर्देशन करणेबाबत

प्रत्येक अभ्यासमंडळाने नामनिर्नेशित केलेली एक व्यक्ती, जी मान्यताप्राप्त अध्यापक असेल आणि अन्यथा अभ्यासमंडळाचा सदस्य म्हणून नामनिर्देशित होण्यास पात्र असेल;

विषय क्र.२.: महाराष्ट्र सार्वजनिक विद्यापीठ अधिनियम २०१६, कलम ४१ (च) अन्वये प्राश्निक , परीक्षक आणि नियामक यांची नामीका तयार करणे आणि परीक्षा व मूल्यमापन मंडळाकडे त्यांची शिफारस करणे.

विषय क्र.३.: महाराष्ट्र सार्वजनिक तिहापीठ अधिनियम २०१६, कलम ४८ (३) (क) (चार) नुसार

अभ्यासमंडळाने त्यांच्या सदस्यांमधून दोन सदस्यांचे नामनिर्देशित करणे.त्यापैकी एक पदव्यूत्तर असेल; विषय क्र.४: शैक्षणिक वर्ष २०२३-२४ पासून निवन शैक्षणिक धोरण-२०२० लागू करावयाचे

असल्याने त्यासाठी आवश्यक असणारे संरचना (Structure) व अभ्यासक्रम तयार करणेबाबत विचारविनिमय करणेबाबत

कळावे

आपला विश्वासू, ( राजेंश चि.ठाकरे ) सहायक कुलसचिव अभ्यासमंडळ व पात्रता विभाग

#### प्रत माहितीसाठी :-

१.मा.प्र- कुलगुरु कार्यालय, कबचौ उमवि, जळगांव २.मा.संचालक, परीक्षा व मूल्यमापन मंडळ, कबचौ उमवि, जळगांव ३.मा.वित्त व लेखा अधिकारी, विभाग, कबचौ उमवि, जळगांव.

#### k. c.e. socioty's Moolji Jaitha College

An 'Autonomous College' Affiliated to K.B.C. North Maharashtra University, Jalgaon.

NAAC Reaccredited Grade - A (CGPA: 3.15 - 3" Cycle) UGC honoured "College of Excellence" (2014-2019) DST(FIST) Assisted College



#### के. सी. ई. सोसायटीचे मूळजी जेठा महाविद्यालय

क.व.चौ. उत्तर महाराष्ट्र विद्यापीठ, जळगाव संलग्नित 'स्वायत्त महाविद्यालय'

नॅकद्वारा पुनर्मानांकित श्रेणी –'ए'(सी.जो.पी.ए. : ३.९५ – तिसरी केरी) विद्यापीठ अनुदान आयोगद्वारा योबित 'कॉलेज ऑफ एक्सलन्स' (२०१४–२०१९) डी.एस.टी. (फीस्ट) अंतर्गत अर्थसहाय्य प्राप्त

Ref. No.

Date :- 15/03/2023

To,

Prof. Ravindra H. Patil, Dept of Microbiology and Biotechnology, Dept. of Microbiology & Biotechnology, R. C. Patel Arts, Science & Commerce College, Shirpur.

Subject :- Constitution of Board of Studies and Induction of members thereto.

In exercise of the powers conferred by under section 122(3) of the Maharashtra Public Universities Act, 2016 and under section 12 (5) (d) of the Notification dated 14 January, 2019 published by State of Maharashtra Gazette for constitution of various Statutory Bodies in the autonomous college I, Prof. S. N. Bharambe, Principal, Moolji Jaitha College, Jalgaon hereby communicate that, you are nominated by Hon'ble V-C, KBCNMU, Jalgaon as expert member of Board of Studies in Microbiology and Biotechnology under the Faculty of Science and Technology of M J College (Autonomous), Jalgaon. The functions of the Board of Studies shall be governed by the guidelines for autonomous colleges published in Jan, 2018. The term of the office of the Members shall be up to three years from the date of its first meeting. The meetings of Board of Studies shall be held at least twice a year. A copy of notification is attached herewith for your kind information.

(Prof. S. N. Bharambe) Principal, M. J. College, Jalgaon

#### Copy to :-

1) The persons concerned.

- 2) All the Directors/Heads of the Schools/Departments.
- 3) Office of the Principal.
- 4) The Registrar Office, MJC, Jalgaon.
- 5) Administrative Officer, KCE Society, Jalgaon
- 6) Finance Officer, KCE Society, Jalgaon.
- 7) All the Heads of the MJC, Administrative Sections.

#### **IKS** resources: lectures/webinars/books/webinars

The college has made available the online resources on IKS through its website. The links of the IKS resources such as Video lectures/webinars, IKS books/mauscripts etc. are shared with students through social media. The college library has a several books and journals available for IKS.

IKS syllabus: <a href="https://www.rcpasc.ac.in/microbiology-syllabus">https://www.rcpasc.ac.in/microbiology-syllabus</a>

:: Indian Knowledge Systems :: (iksindia.org)

Video lectures/webinars: <a href="https://www.rcpasc.ac.in/microbiology-syllabus">https://www.rcpasc.ac.in/microbiology-syllabus</a>

Vedic Microbiology: <a href="https://www.youtube.com/watch?v=0jAyxYWQmew">https://www.youtube.com/watch?v=0jAyxYWQmew</a>

IKS books/mauscripts: National Mission for Manuscripts | (namami.gov.in)

<u>Course of IKS: https://iksindia.org/courses-offered-by-iks-centers.php</u>

Webinars on IKS: https://iksindia.org/webinars.php

R. C. Patel Educational Trust's

Dr. D. R. Patil

R. C. Patel Educational Trust's
R. C. Patel Arts, Commerce and Science College
Shirpur, Dist.-Dhule (M.S.) 425405

#### PG students' research projects based on IKS:

Indian traditional knowledge encompasses a vast array of ancient wisdom, practices, and systems that have been passed down through generations. Hone of the most important example of Indian traditional knowledge is **Ayurveda**. This is a holistic system of medicine that originated in ancient India. It emphasizes the balance of mind, body, and spirit and uses natural remedies, herbs, diet, and lifestyle practices to promote health and well-being. The project work for MSc students involves many aspects related to Ayurveda, traditional herbs, traditional knowledge etc. For example, medicinal plants research for skincare and beauty practices using natural ingredients. Develop a line of Ayurvedic skincare products such as herbal face packs, oils, and hair treatments based on ancient formulations. The projects are also designed to **ex**plore the science of Ayurvedic pharmacology and formulation of herbal medicines to validate their antimicrobial, antioxidative, anti-inflammatory and plant growth promoting potential. A few topics of projects completed by PG students are mentioned below:



Dr. D. R. Patil

R. C. Patel Educational Trust's
R. C. Patel Arts, Commerce and Science College
Shirpur, Dist.-Dhule (M.S.) 425405

#### A Project Dissertation On

## "ISOLATION OF ENDOPHYTIC FUNGI FROM ETHNO MEDICINAL PLANTS AND THEIR BIOLOGICAL ACTIVITIES"

#### SUBMITTED TO

#### KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY, JALGAON

In Partial fulfilment of degree of

#### MASTER OF SCIENCE

(Microbiology)

#### **GUIDE**

#### CO-GUIDE

Dr. Ravindra H. Patil
Head, Department of Microbiology.

Dr. Mohini R. Patil
Assistant Professor,
Department of Microbiology.

#### Submitted by,

Mr. Parag K. Ahirrao

Miss. Neha R. Mali

Miss. Yogita S. Dorik

Miss. Bhagyashree K. Khairnar

Miss. Shital N. Jadhav

Miss. Kiran A. Behere

Mr. Sumit S. Patil



#### Department of Microbiology

R. C. Patel A. C. S. College, Shirpur Dist – Dhule 425405 2022-23

A

#### Project Report On

"Isolation, Characterization and Evaluation of Probiotic Properties of *Lactobacillus* from Different Flowers."

#### A DISSERTATION SUBMITTED TO

#### KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY' JALGAON

In Partial fulfilment for the degree of MASTER OF SCIENCE

(Microbiology)

Submitted By

Miss. Girnar Dipti D. Miss. Patil Rupali V. Mr. Patil Pradip C. Mr. Gurav Mahesh A. Mr. Valvi Sunil C.

Under the Guidance of

Prof. Mahesh P. Patil.

R.C. Patel Art's, Science and Commerce

College, Shirpur



Department of Microbiology

R.C. Patel Art's, Science and Commerce College, Shirpur Dist- Dhule 425405 2018-2019 A

#### Project Report On

"Isolation, Characterization and Evaluation of Probiotic Properties of Lactobacillus from Different Flowers."

A DISSERTATION SUBMITTED TO

### KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY' JALGAON

In Partial fulfilment for the degree of MASTER OF SCIENCE

(Microbiology)

Submitted By

Miss. Girnar Dipti D.
Miss. Patil Rupali V.
Mr. Patil Pradip C.
Mr. Gurav Mahesh A.
Mr.Valvi Sunil C.

Under the Guidance of

Prof. Mahesh P. Patil.

R.C. Patel Art's, Science and Commerce

College, Shirpur



### **Department of Microbiology**

R.C. Patel Art's, Science and Commerce College, Shirpur Dist- Dhule 425405 2018-2019



Isolation, Characterization of Potash Mobilizing Bacteria from Sugarcane Soil and its application as Bioinoculant

#### SUBMITTED BY

Miss .Palak Raheja Miss .Rajshri Wadile Miss. Snehlata Mange Miss. Kruti Harsola

For the Degree of Master of Science in Biotechnology

Under the Guidance of

Prof. Harsha D Pardeshi

SUBMITTED TO

R.C.Patel. Arts, Commerce & Science College, Shirpur Dist: Dhule 425405 (M.S)

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, Maharashtra

[2021-22]

#### " Isolation of plant growth promoting organism and study on their applications as biofertilizer"



DEPARTMENT OF

R.C. PATEL A. C. S. COLLEGE

MICROBIOLOGY

SHIRPUR,(DIST-DHULE),MS

AND

TEL:(02563)-299328(OFF.)

BIOTECHNOLOGY

WEB: www.mbbtshirpur.i

#### CERTIFICATE

This is to certify that project entitled "Isolation of plant growth promoting organism and study on their applications as biofertilizer" is the original research work carried out by Ms. Hemakshi Vadnere, Ms. Dipika Khairnar, Ms.Kamini Chaudhari, Ms. Smita Deore, Ms. Pradnya Rajput, Mr.Akshay Sonawane, Mr.Pushkaraj Salunkhe under supervision of Dr. Mohini R. Patil (Department Of Microbiology) in the partial fulfillment of degree of Master Of Science (Microbiology) during the academic year 2022-2023 at R.C. Patel A. S. C. College, Shirpur.

The work presented in this dissertation was carried out under my guidance and supervision. The findings reported in this dissertation are not allowed to publish in any Journal/Book without the permission of Research/Project guide.

Place: Shirpur

Date: 07/06/2023

Project Guide

Head of department

External Examiner



Internal Examiner



## R.C. Patel Art's, Science and Commerce College, Shirpur

Tel: (02563) -257328 (Off.) (02563)-259034, Fax: (02563)-255189

## Department of Microbiology and Biotechnology

## CERTIFICATE

This is to certify that project entitled "Evaluation of Insecticidal Efficacy of Moringa oleifera and Ricinus communis extract against Aleurolobus barodensis." submitted for partial fulfilment of Degree of "Master of Science in Microbiology" was carried out in the laboratories of R. C. Patel A. S. C. College, Shirpur. Submitted by Miss. Dhanwani Mamta D., Mr Pawar Shubham S., Mr. Lohar Prashant N., Mr. Patil Ashwin G. and Miss. Gujar Mayuri P. The work is presented in this dissertation was carryout under my guidance and supervision.

Place: Shirpur

Date: 21/04/2019

Dr. Ravindra H. Patil.

Head,

Department of Microbiology and Biotechnology

Internal Examiner

Dr. Ravindra H. Patil.

Head.

Department of Microbiology and Biotechnology



#### DEPARTMENT OF BIOTECHNOLOGY



#### CERTIFICATE

This is to certify that the project entitled "Isolation, Identification, and Potential Probiotic Characterization on of fructophilic lactic acid bacteria from fructophilic niches", submitted for partial fulfillment of the degree of "Master of Science in Biotechnology" were carried out in the Department of Biotechnology, R.C. Patel A.C.S. College Shirpur. By Mr. Mayur Patil, Mr. Rahul Nikam, Ms. Nikita Patil, Ms. Tejasvini Deore, Mr. Akash Pawar, Ms. Mona Bhamre, Ms. Mayuri Tolkar, Ms. Jayshree Patil. This work was carried out during the academic year 2022-23 under the supervision of Dr. Mahesh P. Patil (Asst. Professor. Microbiology).

The work presented in this dissertation was carried out under my guidance and supervision. The investigation described in this report is not allowed to publish in any journal without permission from the Research Guide/Head Department of Biotechnology, R. C. Patel A. C. S. College Shirpur.

Place: Shirpur

Date: 07/06/2023

Dr. Mahesh p. Patil (Project Guide)

Internal Examiner

Head Dept. of Biotechnology



## DEPARTMENT OF MICROBIOLOGY



#### CERTIFICATE

This is to certify that project entitled "Green synthesis of silver nanoparticles using Butea Monosperma plant extract: In vitro characterizations and antibacterial activity", submittedfor partial fulfilment of degree of "Master of Science in Microbiology" were carried out in the Department of microbiology, R.C. Patel A.C.S. College, Shirpur, By Mr. Saurabh Marathe, Miss. Ashwini Sonawane, Miss. Amrapali Wagh, Miss. Hemangi Patil, Miss. Riya Godhawani, Mr. Sandeep Patil, Miss.Nisha Rajput, This work was carried out during the academic year 2021-22 under the supervision of Dr. Ashwini G. Patil (Asst. Professor, Microbiology).

The work presented in this dissertation was carried out under my guidance and supervision. The investigation described in this report is not allowed to publish in any journal without the permission from research guide/head department of microbiology,

R. C. Patel A. C. S. College, Shirpur.

Place: Shirpur

Date:

Dr. Ashwini G. Patil (Project Guide)

Internal Examiner

Dept. of Microbiology

## KAVAYITRI BAHINABAI CHAUDHARI NMU, JALGAON R.C.PATEL ARTS, COMMERCE AND SCIENCE COLLEGE, SHIRPUR

#### DEPARTMENT OF BIOTECHNOLOGY



#### CERTIFICATE

This is to certify that the work entitle "To Study the Isolation of Azotobacter and it's Application as a Bio- Fertilizer" is a carried out by Miss. Bhavsar Shruti S, Miss. Navale Sneha V, Miss. Patil Karishma Y, Mr. Shimpi Rupesh G and Miss. Verma Anupama O. under the supervision of Dr. R.H. Patil at department of biotechnology, R. C.Patel ACS College, Shirpur towards the partial fulfilment of master of Science in Biotechnology during the academic year 2018-2019.

Place: Shirpur Date: /4/2019

Dr. R. H. Patil

Project Guide,

Department of Biotechnology

Dr. R. H. Patil

Head,

Department of Biotechnology

Internal Examiner

# Isolation, identification and potential probiotic characterization of fructophilic lactic acid bacteria from fructophilic niches

Dissertation project submitted to

Kavayitri Bahinabai Chaudhari North Maharashtra University Jalgaon



In the partial fulfillment for the degree of

Master of Science (Microbiology)

#### Submitted by

Ms. Megha U. Wagh

Ms. Ankita R. Shirsath

Ms. Priyanka P. Chaudhari

Mr. Prajwal S. Pawar

Ms. Mahima S. Patil

Mr. Prashant D. Dorik

Ms. Nayana S. Chaudhari

Project Guide
Dr. Mahesh Prakash Patil
Assistant Professor

Department of Microbiology, R. C. Patel ACS College, Shirpur

## "ISOLATION OF PHOSPHATE SOLUBILIZING BACTERIA FROM RHIZOSPHERE SOIL"

A

**Dissertation Submitted to** 

## KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY, JALGAON

In the Partial Fulfillment of the Degree of

MASTER OF SCIENCE (Microbiology)

### Submitted by

Miss. Puja Jayaswal

Miss. Vaibhavi Bachhav

Miss. Bhakti Bagale

Miss. Rituja Patil

Miss. Chetana Shinde

Miss. Pooja Pimpale

Miss. Pratiksha Malche



Project Supervisor Dr. R. H. Patil

Department of Microbiology & Biotechnology R. C. Patel A. C. S. College, Shirpur Dist Dhule 425405 2021-22



## Department of MICROBIOLOGY & BIOTECHNOLOGY

R.C.Patel A.C.S.College, Shirpur (Dist-Dhule), MS Tel: ( 02563)-257328(Off.) Web: www.mbbtshirpur.in

#### CERTIFICATE

This is to certify that project entitled "Production and purification of Xylanase from Aspergillus niger isolated from corn cobs" is the original research work carried out by Mr. Shubham Saner, Ms. Nilam Mali, Ms. Neha More, Ms. Manish Patil, and Ms. Sunayana Ahire under supervision of Dr. Sandip P. Patil and Prof. Leena P. Shirsath in the partial fulfilment of degree of Master of Science (Microbiology) during the academic year 2018-19 at R. C. Patel A. S. C. College, Shirpur.

The work presented in this dissertation was carried out under my guidance and supervision. The findings reported in this dissertation are not allowed to publish in any journal without the permission from research guide.

Place: Shirpur

Date: 20/04/2019

Dr. Sandip P. Patil

Project Guide

Prof. Leena P. Shirsath

Project Co-guide

Dr. Rayindra H. Patil

Head of department

External Examiner

Internal Evamine

" Isolation of plant growth promoting organism and study on their applications as biofertilizer"

#### A Project Dissertation On

## "ISOLATION OF PLANT GROWTH PROMOTING ORGANISM AND STUDY ON THEIR APPLICATIONS AS BIOFERTILIZER"

SUBMITTED TO

#### KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY, JALGAON

In Partial fulfillment of degree of

#### MASTER OF SCIENCE

(Microbiology)

GUIDE

CO-GUIDE

Dr. Mohini R. Patil Assistant Professor,

Dr. Ravindra H. Patil Head, Department of Microbiology

Department of Microbiology.

Submitted by,

Miss. Hemakshi R. Vadnere

Miss.Smita Deore Miss.Kamini Chaudhari Miss.Dipika khairnar

Miss.Pradnya rajput

Mr. Akshay Sonawane

Mr.Pushkaraj Salunkhe



#### Department of Microbiology

R. C. Patel A. C. S. College, Shirpur Dist. - Dhule 425405

2022-23

nirpur Dist. – Dhu 23 Scanned with CamScanner

## To study the Isolation of Azotobacter and it's Application as a Bio-fertilizer

A

Research Dissertation Submitted to

Kavayatri Bahinabai Chaudhari North Maharashtra University, Jalgaon. (MS)

For Partial Fulfilment of the Degree of Master of Science

In Biotechnology

(2018-2019)

**Project Guide** 

Dr. R. H. Patil

Submitted By

Miss.Bhavsar Shruti S.

Miss. Navale Sneha V.

Miss.Patil Karishma Y.

Mr.Shimpi Rupesh G.

Miss.Verma Anupama O.



Department of Biotechnology

R. C. Patel Art's, Commerce and Science College, Shirpur Dist.

Dhule

# "BIOGENIC SYNTHESIS OF SILVER NANOPARTICALS USING PLANT LEAF EXTRACT OF CISSUS QUADRANGULARIS"

A Dissertation Project Submitted To

Kavayitri Bahinabai Chaudhari, North Maharashtra University, Jalgaon



In The Partial Fulfillment For The Degree Of

## MASTER OF SCIENCE (BIOTECHNOLOGY)

Project Guide

Mrs. Ashwini Patil

Assistant Professor,

Department Of Biotechnology,

R.C. Patel ACS College,

Shirpur.

Submitted By

Miss. Sakshi Mahajan

Miss. Pradnya Desale

Miss. Karishma Patil

Mr. Ganesh Kadam

Mr. Paresh Chaudhari

#### A Project Dissertation On

## "ISOLATION OF ENDOPHYTIC FUNGI FROM ETHNO MEDICINAL PLANTS AND THEIR BIOLOGICAL ACTIVITIES"

#### SUBMITTED TO

#### KAVAYITRI BAHINABAI CHAUDHARI NORTH MAHARASHTRA UNIVERSITY, JALGAON

In Partial fulfilment of degree of

#### MASTER OF SCIENCE

(Microbiology)

#### GUIDE

**CO-GUIDE** 

Dr. Ravindra H. Patil
Head, Department of Microbiology.

Dr. Mohini R. Patil
Assistant Professor,
Department of Microbiology.

#### Submitted by,

Mr. Parag K. Ahirrao

Miss. Neha R. Mali

Miss. Yogita S. Dorik

Miss. Bhagyashree K. Khairnar

Miss. Shital N. Jadhav

Miss. Kiran A. Behere

Mr. Sumit S. Patil



### Department of Microbiology

R. C. Patel A. C. S. College, Shirpur Dist – Dhule 425405 2022-23



# Department of MICROBIOLOGY AND BIOTECHNOLOGY

R. C. Patel A.C.S College, Sharpar, (Dist Dhale), MS Tel. (42563), 20042 http:// Steb.news/collectorper/m

#### CERTIFICATE

This is to certify that project entitled "Optimization of Azu Dye Decolorization by Microbial Consortium for the Management of Textile Waste Water" is the original research work carried out by Ms. Janhavi J. Patil, Mr. Manish S. Jadhav, Mr. Mangesh G. Hajare, Ms. Kshitija S. Valvi, Ms. Sonali R. Mali, Mr. Manoj S. Pawara and Mr. Indrasing V. Vasave under the supervision of Dr. Sandip P. Patil (Project Guide) and Ms. Harsha D. Pardeshi (Project Co-Guide) in the partial fulfilment of degree of Master of Science (Microbiology) during the academic year 2022-23 at R. C. Patel A. S. C. College, Shirpur.

The work presented in this dissertation was carried out under my guidance and supervision. The findings reported in this dissertation are not allowed to publish in any Journal/Book without the permission of Research/Project guide and Co-Guide.

Place: Shirpur

Date: 07/06/2023

Project Guide

1000 Sign

Project Co-Guide

Internal Examiner

Head of department

Green synthesis of silver nanoparticles using Tridax procumbens flower extract: In vitro characterization and antibacterial activity

A
DISSERTATION PROJECT SUBMITTED
TO

Kavayitri Bahinabai Chaudhari

North Maharashtra University, Jalgaon



In the partial fulfilment of the degree of

MASTER OF SCIENCE (BIOTECHNOLOGY)

Project Guide Dr. Ashwini G. Patil

Department of Microbiology
R.C. Patel Arts, Commerce, and Science College, Shirpur-425405

#### Submitted By

Mr. Ketan Rajesh Bornare

Ms. Jagruti Arjun Mali

Mr. Dipak Suklal Jadhav

Ms. Yashashree Shantaram

More

Mr. Jagdish Yuvraj Patil

Ms. Roshani Yashwant Pawar

Mr. Rohit Samadhan Ahire

Ms. Tejaswini Sunil Nikam



Department of Biotechnology and Microbiology R.C. Patel Arts, Commerce and Science College, Shirpur Dist – Dhule, 425405 2022-23

### 3.1.2 Teachers Recognized as Research Guides

NORTH MAHARASHTRA UNIVERSITY, JALGAON Umavinagar, Post Box 80, Jalgaon - 425 001, INDIA

Fax Website Email

(91)-0257-2258406 www.nmu.ac.in **\$** 

Telephone :(O) : 0257-2257224 (O) : 0257-2258409

Grade - B (2.88) (NAAC Re-Accredited) ISO: 9001-2008

/2011

Ref No.: NMU/11/PGR/Geog/ 4069

Date: 29th November, 2011

To,
Dr.Patil Bharat Daga,
Geography Department,
R.C.Patel Arts, Commerce & Science College,
Shirpur Dist.Dhule

Subject

: Recognition as a Post Graduate Teacher/Ph.D.Guide

Reference

: B.U.T.R. Meeting dated <u>22.11.2011</u>. Item No. <u>03 (11) 08</u>

Sir.

With reference to your application for recognition as a P.G.Teacher/Ph.D.Guide of this University, I have to state that, on the recommendations of the Research & Recognition committee, the University Authorities are pleased to recognize you as Post Graduate Teacher of the North Maharashtra University, Jalgaon from 22.11.2011 for imparting instructions in the subject Geography - P.G.Teacher (by paper), M.Phil (by paper/research) and Ph.D. (by Research) under the faculty of Science.

2. I wish to add for your information that you can accept research students for registration up to the age of 65 years and guide registered students up to the age of 70 years. Further it is mandatory to get the Research Laboratory recognized by the North Maharashtra University, Jalgaon for registering Ph.D. students.

Yours sincerely,

(Dnyandeo Neelwarna)

10000x

Asst. Registrar

Board of Colleges and University Development



#### । अंतरी पेटवू ज्ञानज्योत । **उत्तर महाराष्ट्र विद्यापीठ, जळगाव – ४२५००१** NORTH MAHARASHTRA UNIVERSITY, JALGAON - 425001



रौप्य महोत्सवी वर्ष २०१४-१५

Fax : (91)-0257-2258406 Telephone :(O) : 0257-2257224, 0257-2258409

Website: <u>www.nmu.ac.in</u> Email: bcudresearch@rediffmail.com

Ref No.: NMU/11/PGR/Phy / 960, /2015 Date: 7th May, 2015

To.

Dr.Patil Arun Madhukar,
Physics Department,

RC Patel Arts, Commerce & Science College,

Shirpur Dist.Dhule

Subject

: Recognition as a Post Graduate Teacher/Ph.D.Guide

Reference

: B.U.T.R. Meeting dated 06.05.2015 Item No. 03 (1) 2

Sir.

With reference to your application for recognition as a P.G.Teacher/Ph.D.Guide of this University, I have to state that, on the recommendations of the Research & Recognition committee, the University Authorities are pleased to recognize you as Ph.D.Guide of the North Maharashtra University, Jalgaon from <u>06.05.2015</u> for imparting instructions in the subject <u>Physics - P.G.Teacher</u> (by paper), M.Phil (by paper/research) and Ph.D. (by Research) under the faculty of <u>Science</u>.

2. I wish to add for your information that you can accept research students for registration up to the age of 65 years and guide registered students up to the age of 70 years. Further it is mandatory to get the Research Laboratory recognized by the North Maharashtra University, Jalgaon for registering Ph.D. students.

Yours sincerely,

Deputy Registrar
Board of Colleges and University Development

Copy to: The Principal, RC Patel Arts, Commerce & Science College, Shirpur Dist.Dhule

#### ।। अंतरी पेटवू ज्ञानज्योत ।।

#### NORTH MAHARASHTRA UNIVERSITY, JALGAON Umavinagar, Post Box 80, Jalgaon - 425 001, INDIA

Fax Website: (91)-0257-2258406

Email :

www.nmu.ac.in bcudresearch@rediffmail.com



Telephone:(O): 0257-2257224

(O): 0257-2258409

Grade - B (2.88) (NAAC Re-Accrediated)

Ref No.: NMU/11/PGR/Biotech/ 4006

/2011

Date: 29th November, 2011

To,

Dr.Ravindra H.Patil, Microbiology Department, R.C.Patel Arts, Comm.& Science College, Shirpur Dist.Dhule

Subject

: Recognition as a Post Graduate Teacher/Ph.D.Guide

Reference

: B.U.T.R. Meeting dated **22.11.2011**. Item No. **03** (3) **01** 

Sir,

With reference to your application for recognition as a P.G.Teacher/Ph.D.Guide of this University, I have to state that, on the recommendations of the Research & Recognition committee, the University Authorities are pleased to recognize you as Post Graduate Teacher of the North Maharashtra University, Jalgaon from 22.11.2011 for imparting instructions in the subject Biotechnology & Microbiology - P.G. Teacher (by paper), M. Phil (by paper/research) and Ph.D. (by Research) under the faculty of Science.

2. I wish to add for your information that you can accept research students for registration up to the age of 65 years and guide registered students up to the age of 70 years. Further it is mandatory to get the Research Laboratory recognized by the North Maharashtra University, Jalgaon for registering Ph.D. students.

Yours sincerely,

(Dnyandeo Neelwarna)

Asst. Registrar

Board of Colleges and University Development



#### ।। अंतरी पेटवू ज्ञानज्योत ।।

## Kayayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Umavinagar, Jalgaon - 425 001, (M.S.) INDIA

#### Research Section

Ref No.: KBCNMU/11/PGR/Micr./\U\\\ /2020

Date: -7.0 /5 /2020

To,

Dr. Sandip Prakash Patil,

Dept. of Microbology,

R. C. Patel Arts, Science & Commerce College,

Shirpur, Dist., Dhule- 425405.

Subject: Recognition as a M.Phil/Ph.D.Guide

Ref:-

1) Your Letter dated 06.03.2020

2) RRC dated 16.03.2020

Dear Sir/Madam,

With reference to your application for recognition as M.Phil/Ph.D.Guide of this University, I have to state that, on the recommendations of the Research & Recognition Committee, the University Authorities are pleased to recognize you as Research Guide of the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon from <u>16.03.2020</u> for imparting instructions in the subject Microbiology –<u>M.Phil (by Paper/research) and Ph.D. (by research)</u> under the faculty of <u>Science & Technology.</u>

2. I wish to add for your information that you can accept research students for registration upto the age of 57 years and guide registered students upto the age of 60 years. Further it is mandatory to get the Research Laboratory (College/Institute/Industry) recognized by the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon for registering Ph.D. students.

Yours sincerely,

(V. V. Talele) Asstt. Registrar Research Section

Copy To:

**The Principal,** R. C. Patel Arts, Science & Commerce College, Shirpur, Dist., Dhule-425405.

Website: www.nmu.ac.in

E-mail: pvcresearch@nmu.ac.in



#### ।। अंतरी पेटवु ज्ञानज्योत ।।

## Kayayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Umavinagar, Jalgaon - 425 001, (M.S.) INDIA

#### Research Section

Ref No.: KBCNMU/11/PGR/Elet./52/6/2019

Date: 14.12.2019

To,

Dr. Sanjay Gorakh Bachhav,

Dept. of Electronic,

R. C. Patel Arts, Commerce & Science College,

Shirpur, Dist. Dhule

Subject: Recognition as a M.Phil/Ph.D.Guide

1) Your Letter dated 07.10.2019

2) RRC dated 16.10.2019

Dear Sir/Madam.

With reference to your application for recognition as M.Phil/Ph.D.Guide of this University, I have to state that, on the recommendations of the Research & Recognition Committee, the University Authorities are pleased to recognize you as Research Guide of the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon from 16.10.2019 for imparting instructions in the subject Electronic -M.Phil (by Paper/research) and Ph.D. (by research) under the faculty of Science & Technology.

I wish to add for your information that you can accept research students for registration upto the age of 57 years and guide registered students upto the age of 60 years. Further it is mandatory to get the Research Laboratory (College/Institute/Industry) recognized by the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon for registering Ph.D. students.

Yours sincerely,

Deputy Registrar Research Section

Copy To:

The Principal,

R. C. Patel Arts, Commerce & Science College, Shirpur, Dist. Dhule

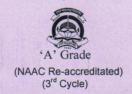
**■**(O): 0257-2258409

(O): 0257-2257221 & 2257222 & 224 Fax: (91)-0257-2258403 & 2258406

Website: www.nmu.ac.in

E-mail: pvcresearch@nmu.ac.in

267



## North Maharashtra University

Umavinagar, Post Box 80, Jalgaon - 425 001, (M.S.) INDIA

#### Pro-Vice Chancellor Office (Research Section)

Ref.No.: NMU/11/Ph.D./917 / 2018

Date. 26.02.2018

To,
Dr. Patil Dilip Ramsigh
R.C. Patel College,
Shirpur Dist. Dhule

Subject : Recognition as a M.Phil/Ph.D. Guide (Inter-disciplinary subject)

Reference: Academic Council Resolution No.164/2017 Dated 15.12.2017

dated 15.12.2017

Resp.Sir/Madam,

S

With reference to your application for recognition as M.Phil/Ph.D. Guide of this University. In this connection, I have to state that, on the recommendation of the Research & Recognition Committee, the University authorities are pleased to recognize you as Research Guide of North Maharashtra University, Jalgaon from 17.01.2018 for imparting instructions in the subject Chemistry (Inter-disciplinary subject) M.Phil and Ph.D. (By research) under the faculty of Science and Technology.

I wish to add for your information that you can accept research students for registration 03 years before your superannuation.

Thanking you,

Yours sincerely,

Dy.Registrar Research & Development

Copy to:
The Principal,
R.C. Patel College,
Shirpur Dist. Dhule

**(**O): 0257-2258409

(O): 0257-2257221 & 2257222 & 224 Fax: (91)-0257-2258403 & 2258406 Website: www.nmu.ac.in

E-mail: pvcresearch@nmu.ac.in

#### ।। अंतरी पेटवू ज्ञानज्योत ।।

#### NORTH MAHARASHTRA UNIVERSITY, JALGAON

Umavinagar, Post Box 80, Jalgaon - 425 001, INDIA

Fax : Website :

(91)-0257-2258406

Email

www.nmu.ac.in bcudresearch@rediffmail.com



Telephone :(O) : 0257-2257224

(O): 0257-2258409

Grade – B (2.88) (NAAC Re-Accredited) - ISO: 9001-2008

Ref No.: NMU/11/PGR/Elect/ 2414

/2012

Date: 21st September, 2012

To,
Dr.Patil Dilip Ramsing,
Principal,
R.C.Patel College,
Shirpur Dist.Dhule

Subject

: Recognition as a Post Graduate Teacher/Ph.D.Guide

Reference

: B.U.T.R. Meeting dated 17.09.2012 Item No. 03 (2) 04

Sir,

d1 111

With reference to your application for recognition as a P.G.Teacher/Ph.D.Guide of this University, I have to state that, on the recommendations of the Research & Recognition committee, the University Authorities are pleased to recognize you as Post Graduate Teacher of the North Maharashtra University, Jalgaon from 17.09.2012 for imparting instructions in the subject Electronics – P.G.Teacher (by paper), M.Phil (by paper/research) and Ph.D. (by Research) under the faculty of Science.

2. I wish to add for your information that you can accept research students for registration up to the age of 65 years and guide registered students up to the age of 70 years. Further it is mandatory to get the Research Laboratory recognized by the North Maharashtra University, Jalgaon for registering Ph.D. students.

Yours sincerely,

(Samadhan Surwade)

Deputy Registrar

Board of Colleges and University Development

#### ।। अंतरी पेटव् ज्ञानज्योत ।।

#### NORTH MAHARASHTRA UNIVERSITY, JALGAON Umavinagar, Post Box 80, Jalgaon - 425 001, INDIA

Fax

(91)-0257-2258406

Website:

www.nmu.ac.in

Telephone:(O): 0257-2257224

(O): 0257-2258409

Fmail

bcudresearch@rediffmail.com

Grade - B (2.88) (NAAC Re-Accredited)

Ref No.: NMU/11/PGR/Phy/ 2237.

/2010.

Date: 2nd September, 2010

To.

Dr.Patil Dilip Ramsing,

Principal.

R.C.Patel Arts, Commerce & Science College,

Shirpur Dist.Dhule

Subject: Recognition as a Post Graduate Teacher (M.Phil Ph.D.Research Guide

in Physics).

Reference: B.U.T.R. Meeting dated 28.07.2010 Item No. 03 (Phy.) 11

Sir.

With reference to your application for referred above as the recognition as a P.G. Teacher of this University, I have to state that on the recommendations of the committee for recognition of teachers, the University Authorities are pleased to recognize you as Post Graduate Teacher of the North Maharashtra University, Jalgaon from 28.07.2010 to 27.07.2017 for imparting instructions in the subject Physics -P.G. Teacher (By paper). M. Phil (by paper/research) and Ph.D. (by Research) under the faculty of Science.

I am further to add for your information and guidance that the teachers, who are recognized for imparting instruction to the Post Graduate classes, will continue to be so recognized for a period of Seven Years. Thereafter, you will have to submit information of your independent Research Publications, designation in the College, etc. for reconsideration of the recognition by the University Authorities.

Yours sincerely.

Www.pood

(Dnyandeo Neelwarna)

Asst. Registrar Board of Colleges and University Development

Note : As per resolution of B.U.T.R., research guides are entitled to accept research students for registration maximum upto the age of 65 years and guide registered students maximum upto the age of 70 years.

|| अंतरी पेटवू ज्ञानज्योत ||

North Maharashtra University Umavinagar, Post Box 80, Jalgaon – 425 001, INDIA

Telephone: (O): 0257-2257224

Fax:

(91)-0257-2258403

Website: www.nmu.ac.in

Email:

bcudresearch@rediffmail.com



Ref.No.: NMU/11/PGR/680/2018

Date, 02,02,2018

To, Prof./Dr. Bachute Milind Bhagwanrao R. C. Patel College of Shirpur. Dist.Dhule.

Recognition as a M.Phil/Ph.D. Guide

Reference: Academic Council meeting Dated 15.12.2017, Item No.164/2017

Resp.Sir/Madam,

With reference to your application for recognition as M.Phil/Ph.D. Guide of this University, I have to state that, on the recommendation of the Research & Recognition Committee, the University Authorities are pleased to recognize you as Research Guide of the North Maharashtra University, Jalgaon. from 05.09.2017 for imparting instructions in the subject Psychology M.Phil and Ph.D. (By research) under the faculty of Humanities

I wish to add for your information that you can accept research students for registration 03 years before your superannuation.

Thanking you,

Yours sincerely,

Dy.Registrar

Research & Development

Copy to: The Principal, R.C.Patel College of Shirpur Dist. Dhule.

#### || अंतरी पेटव् ज्ञानज्योत ||

### North Maharashtra University

Umavinagar, Post Box 80, Jalgaon - 425 001, INDIA Telephone: (O): 0257-2257224

(91)-0257-2258403 Fax: Website: www.nmu.ac.in

Email:

bcudresearch@rediffmail.com



Ref.No.: NMU/11/Ph.D./727/2018

Date:

/2018

Prof./Dr.Pralhad **X**adav Magare R.C.Patel Arts, Science & Com. College, Shirpur

> Recognition as a M.Phil/Ph.D. Guide Subject:

Reference: 1) Your application letter dated ------

2) Academic Council meeting Dated 15.12.2017, Item No.164/2017

Resp.Sir/Madam,

With reference to your application for recognition as M.Phil/Ph.D. Guide of this University, I have to state that, on the recommendation of the Research & Recognition Committee, the University Authorities are pleased to recognize you as Research Guide of the North Maharashtra University, Jalgaon. from 12.1.2017 for imparting instructions in the subject Geography M.Phil and Ph.D. (By research) under the faculty of Science & Technology.

I wish to add for your information that you can accept research students for registration 03 years before your superannuation.

Thanking you,

Yours sincerely,

Dy.Registrar Research & Development

Copy to: The Principal, R.C.Patel Arts, Science & Com. College, Shirpur

**≅**(O): 0257-2258409

(O): 0257-2257222 & 2257224 Fax: (91)-0257-2258403 & 2258406 Website: www.nmu.ac.in

E-mail: bcudresearch@rediffmail.com

।। अंतरी पेटवू ज्ञानज्योत ।।

#### NORTH MAHARASHTRA UNIVERSITY, JALGAON

Umavinagar, Post Box 80, Jalgaon - 425 001, INDIA

Fax : (91)-0257-2258406 Website : www.nmu.ac.in

Email : bcudresearch@rediffmail.com

Telephone :(O) : 0257-2257224 (O) : 0257-2258409

Grade – B (2.88) (NAAC Re-Accredited) ISO: 9001-2008

NMU/11/PGR/Marathi/ 2013

Date: 14/11/2013

To,

Dr.Sudhakar Sitaram Chaudhari, 14, Shashri Nagar, Shirpur,Dist.Dhule

Subject: Recognition as a Post Graduate Teacher/ Ph.D Guide.

Ref. : B.U.T.R. Meeting resolution no.3 dated 07.11.2013.Item No.2(5)

Dear Sir,

With reference to your application for recognition as a P.G Teacher/Ph.D Guide of this University, I have to state that, on the Recommendations of the Research & Recognition committee, the University Authorities are pleased to recognize you as Post Graduate Teacher of the North Maharashtra University, Jalgaon from 07.11.2013 for imparting instructions in the subject Marathi – P.G.Teacher (by Paper) & Ph.D guide under the faculty of Arts & Fine Arts.

2. I wish to add for your information that you can accept research students for registration up to the 65 years and guide registered students up to the age of 70 years.

po

(S.B.Strwade)

Dy.Registrar,

Board of Colleges and University Development

# NORTH MAHARASHTRA UNIVERSITY, JALGAON

Umavinagar, Post Box 80, Jalgaon - 425 001, INDIA

Fax Website

(91)-0257-2258406 www.nmu.ac.in

Email

bcudresearch@rediffmail.com



Telephone (O) . 0257-2257224 (O) . 0257-2258409

Grade - 6 (3.58) (NAAC Re-Accredited) 150 9001-2008

NMU/11/ PGR/Hindi/

Date: 14/11/2013

To,

Dr.Sunil M Patil, 20-A,Bansilal Nagar, Shirpur, Dist.Dhule.

Subject: Recognition as a Post Graduate Teacher/ Ph.D Guide

Ref. : B.U.T.R. Meeting resolution no.3 dated 07.11.2013.1tem No.3(06)

Dear Sir,

With reference to your application for recognition as a P.G Teacher/Ph.D Guide of this University, I have to state that, on the Recommendations of the Research & Recognition committee, the University Authorities are pleased to recognize you as Post Graduate Teacher of the North Maharashtra University, Jalgaon from 07.11.2013 for imparting instructions in the subject Hindi-P.G.Teacher (by Paper) & Ph.D guide under the faculty of Arts & Fine Arts.

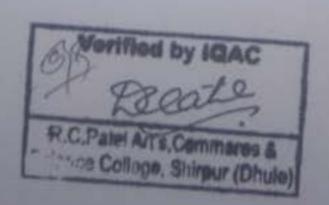
 I wish to add for your information that you can accept research students for registration up to the 65 years and guide registered students up to the age of 70 years.

(S.B.Surwade)

Dy.Registrar,

Board of Colleges and

University Development





# Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon Umavinagar, Jalgaon - 425 001; (M.S.) INDIA

# (Research Section)

KBCNMU/11/PGR/Def.&Strat.Stud./ 2.43 /2020

Date: 06/01/2020

11

To,
Dr. Pawar Raju Sitaram,
Asstt.Professor,
45B, Vidyavihar Housing Society-I,
Shirpur. Dist.Dhule.

Subject: Recognition as a M.Phil/Ph.D.Guide.

Dear Sir,

With reference to your application for recognition as M.Phil/Ph.D.Guide of this University, I have to state that, on the recommendations of the Research & Recognition Committee, the University Authorities are pleased to recognize you as Research Guide of the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon from 15.10.2019 for imparting instructions in the subject Defence & Strategic Studies — M.Phil and Ph.D. (by research) under the faculty of Humanities.

2. I wish to add for your information that you can accept research students for registration upto the age of 57 years and guide registered students upto the age of 60 years. Further it is mandatory to get the Research Laboratory (College/Institute/Industry) recognized by the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon for registering Ph.D. students.

Yours sincerely,

Dy Registrar, Research Section.

Copy. To :-

The Principal, R.C.Patel Arts, Com. & Science College, Shirpur. Dist.Dhule. ।। अंतरी पेटनु शानन्योः ।।

# NORTH MAHARASHTRA UNIVERSITY, JALGAON

Umavinagar, Post Box 80, Jalgaon - 425 001, INDIA

Fax

(91)-0257-22: 3406

Websitt www.nmu.ac.in

Ema: | bcuo: search@rediffmail.com .

THE PARTY OF THE P



Telephone :(O) . 0257-2257224 (O): 0257-2258499

(NAAC Re-Accredited) ISO 9001-2008

NMU/11/ PGR/Economics. 12013

Date: 14/11/2013

To,

Dr. Anil Gambhirao Sonawane, 36, Pitreshwar Colony, Near Shahada Road, Shirpur-425 405.

Subject: Recognition as a Post Graduate Teacher/ Ph.D Guide.

: B.U.T.R. Meeting resolution no. 3 dated 07.11.2013.Item No.5 (03)

Dear Sir,

With reference to your application for recognition as a Post Graduate Teacher/ Ph.D Guide of this University, I have to state that, on the Recommendations of the Research & Recognition committee, the University Authorities are pleased to recognize you as Post Graduate Teacher of the North Maharashtra University, Jalgaon from 07.11.2013 for imparting instructions in the subject Economics - P.G. Teacher (by Paper) & Ph.D guide under the faculty of Mental, Moral & Social Sciences

I wish to add for your information that you can accept research students for registration up to the 65 years and guide registered students up to the age of 70 years.

(S.B.Surwade)

Dy.Registrar,

Board of Colleges and University Development



# Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon Umavinagar, Jalgaon - 425 001, (M.S.) INDIA

# Research Section

Ref No.: KBCNMU/11/PGR/CommcLMgt./ 154 /2019 .

Date: 02.01.2020

To,
Dr. Anil Gambhirrao Sonawane
R. C. Patel Arts, Commerce & Science College,
Shirpur, Dist. Dhule.

Subject: Recognition as a M.Phil/Ph.D.Guide

Dear Sir/Madam,

With reference to your application for recognition as M.Phil/Ph.D.Guide of this University, I have to state that, on the recommendations of the Research & Recognition Committee, the University Authorities are pleased to recognize you as Research Guide of the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon from 14.10.2019 for imparting instructions in the subject Bussiness Economics—M.Phil and Ph.D. (by research) under the faculty of Commerce & Management.

2. I wish to add for your information that you can accept research students for registration upto the age of 57 years and guide registered students upto the age of 60 years. Further it is mandatory to get the Research Laboratory (College/Institute/Industry) recognized by the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon for registering Ph.D. students.

Yours sincerely,

Deputy Registrar Research Section

More

Copy To:

The Director,

R. C. Patel Arts, Commerce & Science College, Shirpur, Dist. Dhule

E(O): 9757-2258409

(D): 6257-2257221 & 2257222 & 224 Fax: (91)-6757-225840) & 2258406

Website: www.nmtr.ac.in

E-mail: pvcresearch@innu.ac.in

25



# Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon

Umavinagar, Jalgaon - 425 001, (M.S.) INDIA

#### Research Section

Ref No.: KBCNMV/11/PGR/Mar./ 56

/2020

Date: 03.01.2020

06

Dr.Patil Dilip Atmaram ,

Dept.of Marathi, R.C. Patel Arts, Comm. & Science College, Shirpur Dist-Dhule.

Subject: Recognition as a M.Phil/Ph.D.Guide

Dear Sir/Madam,

With reference to your application for recognition as M.Phil/Ph.D.Guide of this University, I have to state that, on the recommendations of the Research & Recognition Committee, the University Authorities are pleased to recognize you as Research Guide of the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon from 15.10.2019 for imparting instructions in the subject Marathi-M.Phil and Ph.D. (by research) under the faculty of Humanities.

2. I wish to add for your information that you can accept research students for registration upto the age of 57 years and guide registered students upto the age of 60 years. Further it is mandatory to get the Research Laboratory (College/Institute/Industry) recognized by the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon for registering Ph.D. students.

Yours sincerely,

Deputy Registrar Research Section

Copy To:

The Principal,

R.C.Patel Arts, Comm. & Science College, Shirpur

Dist-Dhule.

Fax: (91)-0257-2257224 & 2257284 Fax: (91)-0257-2258403 & 2258406 Website: www.nmu.ac.in E-mail: pvcresearch@nmu.ac.in 5

NORTH MAHARASHTRA UNIVERSITY, JALGAON

Umavinagar, Post Box 80, Jalgaon - 425 001, INDIA

: (91)-0257-2258403 Website: www.nmu.ac.in

Email : beudresearch@rediffmail.com



Telephone :(O): 0257-2257224 (O): 0257-2258409

Ref No.: NMU/11/PGR&T//History/978 / 2015

Date: 08/05/2015 18

To.

Dr.Ramesh Dhanraj Jadhav 12, A ViDyavihar Houseing Socity, Near Vasudeo Baba Mandir, Shirpur Dist- Dhule

> : Recognition as a Post Graduate Teacher /M.Phil./ Ph.D. Guide Subject

: B.U.T.R. Meeting dated 23.04.2015. Item No. 02 (02) Reference

Sir,

With reference to your application for recognition as a P.G.Teacher/M.Phil./ Ph.D. Guide of this University, I have to state that, on the recommendations of the Research & Recognition committee, the University Authorities are pleased to recognize you as a Post Graduate Teacher /M.Phil./ Ph.D. Guide of the North Maharashtra University, Jalgaon from 23.04.2015 for imparting instructions in the subject History - M.Phil., Ph.D. (By Research ) Guide under the faculty of Mental, Moral & Social Sciences")

Yours sincerely,

(G. N. Pawar)

Deputy Registrar Board of Colleges and University Development

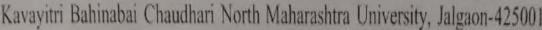
Copy to:

The Principal, R.C. Patel College Shirpur, Dist-Dhule

nmerce and r.Dist.Dhule



# ॥ अंतरी पेटवू ज्ञानज्योत ॥ कवियत्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव





KBCNMU/11/Ph.D./ 29 /2022

Date: 02-08-2022

KAMALAKAR RAMAN PATIL

R C PATEL EDUCATIONAL TRUST S R.C. PATEL ARTS COMMERCE &SCIENCE COLLEGE SHIRPUR, Near Karawand Naka, Shirpur

Subject: Recognition as a Ph.D.Guide

Dear Sir/Madam,

With reference to your application for recognition as M.Phil/Ph.D.Guide of this University, I have to state that, on the recommendations of the Research & Recognition Committee, the University Authorities are pleased to recognize you as Research Guide of the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon from 14-07-2022 for imparting instructions in the subject English - Ph.D. by Research under the faculty of Humanities.

I wish to add for your information that you can accept research students for registration upto the age of 57 years and guide registered students upto the age of 60 years. Further it is mandatory to recognize your college as a Research Center in the concern subject by the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon for registering the Ph.D. students.

Yours sincerely,

50/-

(Shri. V. V. Talele) Deputy Registrar Research Section

Copy To:

The Principal, R C PATEL EDUCATIONAL TRUST S R.C.PATEL ARTS COMMERCE &SCIENCE COLLEGE SHIRPUR, Near Karawand Naka, Shirpur

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# ॥ अंतरी पेटवू ज्ञानज्योत ॥ कवियत्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon-425001

KBCNMU/11/Ph.D./ 3 /2022

Date: 02-08-2022

To,

#### **AVINASH ARUN PATIL**

R C PATEL EDUCATIONAL TRUST S R.C.PATEL ARTS COMMERCE &SCIENCE COLLEGE SHIRPUR, Near Karawand Naka, Shirpur

Subject: Recognition as a Ph.D.Guide

Dear Sir/Madam,

With reference to your application for recognition as M.Phil/Ph.D.Guide of this University, I have to state that, on the recommendations of the Research & Recognition Committee, the University Authorities are pleased to recognize you as Research Guide of the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon from 12-07-2022 for imparting instructions in the subject Physics - Ph.D. by Research under the faculty of Science and Technology.

I wish to add for your information that you can accept research students for registration upto the age of 57 years and guide registered students upto the age of 60 years. Further it is mandatory to recognize your college as a Research Center in the concern subject by the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon for registering the Ph.D. students.

> Yours sincerely, sd/-

(Shri. V. V. Talele) Deputy Registrar Research Section

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## ॥ अंतरी पेटवू ज्ञानज्योत ॥ कवियत्री वहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव



Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon-425001

KBCNMU/11/Ph.D./ 54 /2022

Date: 02-08-2022

To,
HARISHCHANDRA BHILA PATIL
R C PATEL EDUCATIONAL TRUST S R.C.PATEL ARTS COMMERCE &SCIENCE COLLEGE SHIRPUR, Near
Karawand Naka, Shirpur

Subject : Recognition as a Post Graduate Teacher

Dear Sir/Madam,

With reference to your application for recognition as a P.G.Teacher of this University, I have to state that, on the recommendations of the Research & Recognition Committee, the University Authorities are pleased to recognize you as Post Graduate Teacher of the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon from 12-07-2022 for imparting instructions in the subject Physics - P.G. Teacher by Paper under the faculty of Science and Technology.

Yours sincerely,

sd/-

(Shri. V. V. Talele) Deputy Registrar Research Section

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The Principal, R C PATEL EDUCATIONAL TRUST S R.C.PATEL ARTS COMMERCE &SCIENCE COLLEGE SHIRPUR, Near Karawand Naka, Shirpur

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# ॥ अंतरी पेटव् ज्ञानज्योत ॥ कवियत्री बहिणाबाई चौधरी उत्तर महाराष्ट्र विद्यापीठ, जळगाव

Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon-425001

KECNMU/11/Ph.D./ 53 /2022

Date 02-08-2022

To,

#### JYOTI PRADIP MAHASHABDE

R C PATEL EDUCATIONAL TRUST S R.C.PATEL ARTS COMMERCE &SCIENCE COLLEGE SHIRPUR, Near Karawand Naka, Shirpur

Subject: Recognition as a Ph.D.Guide

Dear Sir/Madam.

With reference to your application for recognition as M.Phil/Ph.D.Guide of this University, I have to state that, on the recommendations of the Research & Recognition Committee, the University Authorities are pleased to recognize you as Research Guide of the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon from 12-07-2022 for imparting instructions in the subject Chemistry - Ph.D. by Research under the faculty of Science and Technology.

I wish to add for your information that you can accept research students for registration upto the age of 57 years and guide registered students upto the age of 60 years. Further it is mandatory to recognize your college as a Research Center in the concern subject by the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon for registering the Ph.D. students.

Yours sincerely,

nd/-

(Shri. V. V. Talele) Deputy Registrar Research Section

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The Principal, R C PATEL EDUCATIONAL TRUST S R.C.PATEL ARTS COMMERCE &SCIENCE COLLEGE SHIRPUR, Near Karawand Naka, Shirpur



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Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon-425001

KBCNMU/11/Ph.D./ 1471 /2023

Date: 22-08-2023

To,

#### MAHENDRA CHAITRAM AGALE

R C PATEL EDUCATIONAL TRUST S R.C.PATEL ARTS COMMERCE &SCIENCE COLLEGE SHIRPUR, Near Karawand Naka, Shirpur

Subject : Recognition as a Ph.D.Guide

Dear Sir/Madam,

With reference to your application for recognition as M.Phil/Ph.D.Guide of this University, I have to state that, on the recommendations of the Research & Recognition Committee, the University Authorities are pleased to recognize you as Research Guide of the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon from 20-06-2023 for imparting instructions in the subject Zoology - Ph.D. by Research under the faculty of Science and Technology.

I wish to add for your information that you can accept research students for registration upto the age of 57 years and guide registered students upto the age of 60 years. Further it is mandatory to recognize your college as a Research Center in the concern subject by the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon for registering the Ph.D. students.

> Yours sincerely, sd/-

(Shri, V. V. Talele) Deputy Registrar Research Section

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