

### 3.2.1

**Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (patents filed, published, incubation center facilities in the HEI to be considered)**

Sr No	Detail	Total Number
1	Grants / Research Projects	14
2	PhD Guides	09
3	Teachers registered for PhD	01
4	Teachers received PhD	02
5	IPR Workshops	01
6	Entrepreneurship/ Workshops / Conferences	14
7	Patents filed	01
8	MoU / Linkages	16

**3.1.1**

**Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the last five years (INR in Lakhs)**

<b>Year</b>	<b>2022 – 23</b>	<b>2021 – 22</b>	<b>2020 – 21</b>	<b>2019 – 20</b>	<b>2018 - 19</b>
<b>No. of Projects</b>	00	08	00	03	03
<b>(INR in Lakhs):</b>	00	1.95	00	2.15	3.75

<b>Project Name</b>	<b>Staff Name</b>	<b>Department</b>	<b>Year of Award</b>	<b>Amount Sanctioned</b>	<b>Duration of the project</b>	<b>Agency</b>	<b>Type</b>
Ecological status of some Sacred Groves of Radhanagari Tehsil with special reference to Avifauna	Dr Lagade VM	Zoology	2021-22	25000	2 years	Shivaji University Kolhapur	Government
Water quality assessment of ambeohal dam ajara tehsil	Dr Bhosale SV	Zoology	2021-22	25000	2 years	Shivaji University Kolhapur	Government
Phytochemical and antimicrobial screening of Zyphranthes candida	Dr Madhale SV	Botany	2021-22	24000	2 years	Shivaji University Kolhapur	Government

Phytochemical analysis of few selected medicinal plants available in western ghats	Dr Sutare MS	Botany	2021-22	23000	2 years	Shivaji University Kolhapur	Government
Ethnobotanical And Conservation Studies Of Medicinal Plants Of Radhanagari Tehsil	Dr Dorugade SP	Botany	2021-22	24,000	2 years	Shivaji University, Kolhapur	Government
Functional nanocomposites of transition metal oxides as a high performing electrode for Supercapacitor application	Mr Pawar PS	Chemistry	2021-22	25000	2 Years	Shivaji University Kolhapur	Government
Green synthesis and bioactivity studies of dithiocarbamate	Dr Junghare NV	Chemistry	2021-22	24000	2 years	Shivaji University Kolhapur	Government
Synthesis and characterisation of conducting polymers for water treatment	Dr Kamble AD	Chemistry	2021-22	25000	2 years	Shivaji University Kolhapur	Government
Effect of Yogasana and pranayama programme on performance of football players	Dr Magdum ST	Physical Education	2019-20	70000	2 years	Shivaji University, Kolhapur	Government

An aljebraic study of automata theory	Mr Patil AP	Mathematics & Statistics	2019-20	60000	2 Years	Shivaji University Kolhapur	Government
On data depth based procedures for multivariate data analysis	Dr Khorate SD	Mathematics & Statistics	2019-20	85000	2 years	Shivaji University Kolhapur	Government
Synthesis of biodegradable water absorption polymers from diiferent types of oils for agricultural purposes	Dr Kamble AD	Chemistry	2018-20	125000	2 years	Shivaji University Kolhapur	Government
Integrated environmental quality assessment of Dudhaganga river with special reference to Anthropolpygenic activities and threats from Kolhapur district Maharashtra	Dr Lagade VM	Zoology	2018-20	125000	2 years	Shivaji University Kolhapur	Government
Chemical based graphene-NiO composite paper electrode synthesis for hybrid supercapacitor	Dr Tamboli SH	Physics	2018-20	125000	2 years	Shivaji University Kolhapur	Government





Estd: 1962

"A++" Accredited by  
NAAC(2021) With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR-416 004,

MAHARASHTRA

PHONE :EPABX-0231-2609000, 2609145,

www.unishivaji.ac.in, stats@unishivaji.ac.in

शिवाजीविद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र.

दुरध्वनी: (ईपीएम्बीएक्स) ०२३१-२६०९०००, २६०९१४५



जा.क्र. मविचिचि/4/28/978

दिनांक: 01 SEP 2022

प्रति,

डॉ. अतुल दिनकर कांबळे,

श्री. यशवंतराय पाटील सायन्स कॉलेज,

सोळांकूर, ता. राधानगरी,

जि. कोल्हापूर 416212



विषय : Research Grants to College Teacher's 2021-2022 योजनेअंतर्गत

प्रकल्पाच्या मंजूरी बाबत...

संदर्भ : या विभागाचे SU/C.&U.D.Section/408, dt. 13/01/2022 रोजीचे

परिपत्रक

महोदय/महोदया,

उपरोक्त संदर्भीय परिपत्रकान्वये Research Grants to College Teacher's या योजनेअंतर्गत सन 2021-2022 या शैक्षणिक वर्षासाठी संशोधन प्रकल्पाचे प्रस्ताव सादर करण्याविषयी कळविण्यात आले होते. त्यास अनुसरून प्राप्त प्रस्तावांची विषयतज्ञांच्या समितीने छाननी केली असून आपल्या Synthesis and Characterisation of Conducting Polymers for water treatment या प्रकल्पास मंजूरी देण्यात आली आहे. सदर प्रकल्पासाठी एकूण ₹. 25000/- इतका निधी मंजूर करण्यात आला आहे. त्यापैकी तसलमात स्वरूपात पहिला हप्ता ₹.12500/- इतका वितरीत करण्यात येत आहे. सदर प्रकल्पाचा कालावधी हा मंजूरी पत्राच्या दिनांकापासून दोन वर्षे राहील.

प्रकल्पाचा उर्वरित निधी हा प्राचार्य/संचालक यांच्यामार्फत अंतिम अहवाल, सनदी लेखापरिक्षक यांच्या स्वाक्षरीचे उपयोगिता प्रमाणपत्र व विनियोग दाखले, फलनिष्पत्ती अहवाल व दोन्ही वर्षांची अनुक्रमणिका निहाय मुळ देयकावर स्वाक्षरी व Rates are reasonable and paid by me असे प्रत्येक देयकावर नमूद करून सर्व कागदपत्रे (एक मुळप्रत व एक छायांकित प्रत) कार्यालयास जमा केल्यानंतर वितरीत करण्यात येईल. प्रकल्प मुदतीनंतर एक महिन्याच्या कालावधीमध्ये उपरोक्त नमूद कागदपत्रे सादर करणे बंधनकारक राहील कळावे,

आपली विश्वासू,

उपकुलसचिव

महाविद्यालये व विद्यापीठ विकास विभाग

प्रत : 1) मा. प्राचार्य/संचालक,

श्री. यशवंतराय पाटील सायन्स कॉलेज, सोळांकूर, ता. राधानगरी, जि. कोल्हापूर



Estd: 1962

Accredited by  
NAAC (2011) with 'A' Grade

SHIVAJI UNIVERSITY, KOLHAPUR-4.

MAHARASHTRA

PHONE (PABX-0231-2609000, 2609148)

www.unishivaji.ac.in, stats@unishivaji.ac.in

शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र.

दूरध्वनी: (इंपोएक्टोएक्स) ०२३१-२६०९०००, २६०९१४५

जा.क्र. मविविचि/21/27/12/12

दिनांक: 17/12/2022

प्रति,

डॉ. विश्वजीत महादेव लगडे,

श्री. यशवंतराव पाटील सायन्स कॉलेज,

सोळांकूर, ता. राधानगरी,

जि. कोल्हापूर 416212

विषय : Research Grants to College Teacher's 2021-2022 योजनेअंतर्गत

प्रकल्पाच्या प्रथम वर्षाच्या निधी वाचत...

संदर्भ : या विभागाचे SU/C.&U.D.Section/1225, dt. 01/09/2022 रोजीचे मंजूरी पत्र  
महोदय महोदया,

उपरोक्त संदर्भात पत्रान्वये आपणाने Research Grants to College Teacher's या योजनेअंतर्गत सन 2021-2022 या शैक्षणिक वर्षासाठी "Ecological Status of some Sacred Groves of Radhanagari Tehsil with Special reference to Avifauna" या प्रकल्पास मंजूरी देण्यात आली असेून सदर प्रकल्पासाठी एकूण ₹. 25000/- इतका निधी मंजूर करण्यात आला आहे. त्यापैकी योजनेच्या मार्गदर्शक नियमावलीनुसार तसलेमात स्वरूपात पहिला हप्ता ₹.12500/- इतका धनादेश क्र.108100 दि. 31/12/2022 नुसार वितरीत करण्यात येत आहे.

प्रकल्पाचा उर्वरित निधी हा प्राचार्य संचालक याच्यामार्फत अंतिम अहवाल, सन्दी लेखापरिक्षक यांच्या स्वाक्षरीचे उपयोगिता प्रमाणपत्र व विनियोग दाखले, फर्मानिधती अहवाल व दोन्ही वर्षांची अनुक्रमांकित निहाय देयकांची यादी, मूळ देयकावर स्वाक्षरी व Rates are reasonable and paid by me असे प्रत्येक देयकावर नमूद करून सर्व कागदपत्रे (एक मूळप्रत व एक छायांकित प्रत) कार्यालयीन जमा केल्यानंतर वितरीत करण्यात येईल. प्रकल्प मुदतीनंतर एक माहितीच्या कालावधीमध्ये उपरोक्त नमूद कागदपत्रे सादर करणे बंधनकारक राहील

कळावे,



आपला विश्वासू,

*[Signature]*

उपकुलसचिव

महाविद्यालये व विद्यापीठ विकास विभाग

प्रत: 1) मा. प्राचार्य/संचालक,

श्री. यशवंतराव पाटील सायन्स कॉलेज, सोळांकूर, ता. राधानगरी, जि. कोल्हापूर 416212





Estd: 1962

"A++" Accredited by  
NAAC(2021) With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR-416 004,  
MAHARASHTRA

PHONE :EPABX-0231-2609000, 2609145,  
www.unishivaji.ac.in, stats@unishivaji.ac.in

शिवाजीविद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र.

दुरध्वनी: (ईपीएबीएक्स) ०२३१-२६०९०००, २६०९१४५



जा.क्र. मविवि/20/5 / 994

दिनांक: 01 SEP 2022

प्रति,

डॉ. सुखंदा वसंत भोसले,

श्री. यशवंतराव पाटील सायन्स कॉलेज,

सोळांकूर, ता. राधानगरी,

जि. कोल्हापूर 416212

विषय : Research Grants to College Teacher's 2021-2022 योजनेअंतर्गत  
प्रकल्पाच्या मंजूरी बाबत...

संदर्भ : या विभागाचे SU/C.&U.D.Section/408, dt. 13/01/2022 रोजीचे परिपत्रक  
महोदय/महोदया,

उपरोक्त संदर्भीय परिपत्रकान्वये Research Grants to College Teacher's या योजनेअंतर्गत सन 2021-2022 या शैक्षणिक वर्षासाठी संशोधन प्रकल्पाचे प्रस्ताव सादर करण्याविषयी कळविण्यात आले होते. त्यास अनुसरून प्राप्त प्रस्तावांची विषयतज्ञांच्या समितीने छाननी केली असून आपल्या Water Quality Assessment of Ambeohal Dam Ajara Tehsil या प्रकल्पास मंजूरी देण्यात आली आहे. सदर प्रकल्पासाठी एकूण ₹. 25000/- इतका निधी मंजूर करण्यात आला आहे. त्यापैकी तसलमात स्वरूपात पहिला हप्ता ₹.12500/- इतका वितरीत करण्यात येत आहे. सदर प्रकल्पाचा कालावधी हा मंजूरी पत्राच्या दिनांकापासून दोन वर्षे राहील.

प्रकल्पाचा उर्वरित निधी हा प्राचार्य/संचालक यांच्यामार्फत अंतिम अहवाल, सनदी लेखापरिक्षक यांच्या स्वाक्षरीचे उपयोगिता प्रमाणपत्र व विनियोग दाखले, फलनिष्पत्ती अहवाल व दोन्ही वर्षांची अनुक्रमणिका निहाय मुळ देयकांवर स्वाक्षरी व Rates are reasonable and paid by me असे प्रत्येक देयकावर नमूद करून सर्व कागदपत्रे (एक मुळप्रत व एक छायांकित प्रत) कार्यालयास जमा केल्यानंतर वितरीत करण्यात येईल. प्रकल्प मुदतीनंतर एक महिन्याच्या कालावधीमध्ये उपरोक्त नमूद कागदपत्रे सादर करणे बंधनकारक राहील कळावे,



आपली विश्वासु,

*[Signature]*

उपकुलसचिव

महाविद्यालये व विद्यापीठ विकास विभाग

प्रत : 1) मा. प्राचार्य/संचालक,

श्री. यशवंतराव पाटील सायन्स कॉलेज, सोळांकूर, ता. राधानगरी, जि. कोल्हापूर 416212

2) लेखा (पी.जी. बील्स) विभागास.



Estd: 1962

"A++" Accredited by  
NAAC(2021) With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR-416 004,  
MAHARASHTRA  
PHONE :EPABX-0231-2609000, 2609145.  
www.unishivaji.ac.in, stats@unishivaji.ac.in  
शिवाजीविद्यापीठ, कोल्हापूर -४१६ ००४, महाराष्ट्र.  
दुरध्वनी: (ईपीएबीएक्स) ०२३१-२६०९०००, २६०९१४५



जा.क्र. मविवि/2/32/976

दिनांक: 01 SEP 2022

प्रति,

डॉ. एस. व्ही. मधाले,

श्री. यशवंतराव पाटील सायन्स कॉलेज,  
सोळांकूर, ता. राधानगरी,  
जि. कोल्हापूर 416212

विषय : Research Grants to College Teacher's 2021-2022 योजनेअंतर्गत  
प्रकल्पाच्या मंजूरी बाबत...

संदर्भ : या विभागाचे SU/C.&U.D.Section/408, dt. 13/01/2022 रोजीचे परिपत्रक  
महोदय/महोदया,

उपरोक्त संदर्भीय परिपत्रकान्वये Research Grants to College Teacher's या योजनेअंतर्गत  
सन 2021-2022 या शैक्षणिक वर्षासाठी संशोधन प्रकल्पाचे प्रस्ताव सादर करण्याविषयी कळविण्यात आले  
होते. त्यास अनुसरून प्राप्त प्रस्तावांची विषयतज्ञांच्या समितीने छाननी केली असून आपल्या Phytochemical  
and antimicrobial Screening of Zypharus Candida या प्रकल्पास मंजूरी देण्यात आली आहे. सद  
प्रकल्पासाठी एकूण ₹. 24000/- इतका निधी मंजूर करण्यात आला आहे. त्यापैकी तसलमात स्वरूपात पहिल  
हप्ता ₹.12000/- इतका वितरीत करण्यात येत आहे. सदर प्रकल्पाचा कालावधी हा मंजूरी पत्राच्या  
दिनांकापासून दोन वर्षे राहील.

प्रकल्पाचा उर्वरित निधी हा प्राचार्य/संचालक यांच्यामार्फत अंतिम अहवाल, सनदी लेखापरिक्षक यांच्या  
स्वाक्षरीचे उपयोगिता प्रमाणपत्र व विनियोग दाखले, फलनिष्पत्ती अहवाल व दोन्ही वर्षांची अनुक्रमणिक  
निहाय मुळ देयकांवर स्वाक्षरी व Rates are reasonable and paid by me असे प्रत्येक देयकावर नमू  
करून सर्व कागदपत्रे (एक मुळप्रत व एक छायांकित प्रत) कार्यालयास जमा केल्यानंतर वितरीत करण्यात येईल  
प्रकल्प मुदतीनंतर एक महिन्याच्या कालावधीमध्ये उपरोक्त नमूद कागदपत्रे सादर करणे बंधनकारक राहील  
कळावे,



आपली विश्वासू,

*[Signature]*

उपकुलसचिव

महाविद्यालये व विद्यापीठ विकास विभाग

प्रत : 1) मा. प्राचार्य/संचालक,

श्री. यशवंतराव पाटील सायन्स कॉलेज, सोळांकूर, ता. राधानगरी, जि. कोल्हापूर 416212

2) लेखा (पी.जी. बील्स) विभागास.





Estd: 1962

"A++" Accredited by  
NAAC (2021) With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR-416 004,  
MAHARASHTRA

PHONE: 0231-2609000, 2609145,

www.unishivaji.ac.in, stats@unishivaji.ac.in

शिवाजीविद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र.

दुरध्वनी: (इपीएबीएक्स) ०२३१-२६०९०००, २६०९१४५



जा.क्र. मविविचि/3/34/977

दिनांक: 01 SEP 2022

प्रति,

**डॉ. मनिषा सुरेशकुमार सुतार,**

श्री. यशवंतराव पाटील सायन्स कॉलेज,

सोळांकूर, ता. राधानगरी,

जि. कोल्हापूर 416212

विषय : Research Grants to College Teacher's **2021-2022** योजनेअंतर्गत

प्रकल्पाच्या मंजूरी बाबत...

संदर्भ : या विभागाचे SU/C.&U.D.Section/408, dt. 13/01/2022 रोजीचे

परिपत्रक

महोदय/महोदया,

उपरोक्त संदर्भीय परिपत्रकान्वये Research Grants to College Teacher's या योजनेअंतर्गत सन 2021-2022 या शैक्षणिक वर्षासाठी संशोधन प्रकल्पाचे प्रस्ताव सादर करण्याविषयी कळविण्यात आले होते. त्यास अनुसरून प्राप्त प्रस्तावांची विषयतज्ञांच्या समितीने छाननी केली असून आपल्या Phytochemical analysis of few of selected medicinal plants available in western ghat या प्रकल्पास मंजूरी देण्यात आली आहे. सदर प्रकल्पासाठी एकूण ₹. 23000/- इतका निधी मंजूर करण्यात आला आहे. त्यापैकी तसलमात स्वरूपात पहिला हप्ता ₹. 11500/- इतका वितरीत करण्यात येत आहे. सदर प्रकल्पाचा कालावधी हा मंजूरी पत्राच्या दिनांकापासून दोन वर्षे राहील.

प्रकल्पाच्या उर्वरित निधी हा प्राचार्य/संचालक यांच्यामार्फत अंतिम अहवाल, सनदी लेखापरिक्षक यांच्या स्वाक्षरीचे उपयोगिता प्रमाणपत्र व विनियोग दाखले, फलनिष्पत्ती अहवाल व दोन्ही वर्षांची अनुक्रमणिका निहाय मूळ देयकांवर स्वाक्षरी व Rates are reasonable and paid by me असे प्रत्येक देयकावर नमूद करून सर्व कागदपत्रे (एक मुळप्रत व एक छायांकित प्रत) कार्यालयास जमा केल्यानंतर वितरीत करण्यात येईल. प्रकल्प मुदतीनंतर एक महिन्याच्या कालावधीमध्ये उपरोक्त नमूद कागदपत्रे सादर करणे बंधनकारक राहील कळावे,



आपली विश्वासु,

*(Signature)*

उपकुलसचिव

महाविद्यालये व विद्यापीठ विकास विभाग

प्रत : 1) मा. प्राचार्य/संचालक,



Estd: 1962

"A" Accredited by  
NAAC, 2011 With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR-416 004,  
MAHARASHTRA

PHONE 1 PABX-0231-2609000, 2609145,  
www.unishivaji.ac.in, stats@unishivaji.ac.in

शिवाजीविद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र.  
दुरध्वनी: (ईपीएबीएक्स) ०२३१-२६०९०००, २६०९१४५



जा.क्र. मविवि/1/25/1203

दिनांक: 11 JAN 2023

प्रति.

डॉ. एस. पी. दोस्ते,

श्री. यशवंतराव पाटील सायन्स कॉलेज,  
सोळांकूर, ता. राधानगरी,  
जि. कोल्हापूर 416212

विषय: Research Grants to College Teacher's 2021-2022 योजनेअंतर्गत  
प्रकल्पाच्या प्रथम वर्षाच्या निधी बाबत...

संदर्भ: या विभागाचे SU/C.&U.D.Section/ , dt. 01/09/2022 रोजीचे मंजुरी पत्र

महोदय/महोदया,

उपरोक्त संदर्भीय पत्रान्वये आपणास Research Grants to College Teacher's या योजनेअंतर्गत सन 2021-2022 या शैक्षणिक वर्षासाठी "Ethnobotanical and Conservation Studies of Radhanagari Tahsil" या प्रकल्पास मंजुरी देण्यात आली असून सदर प्रकल्पासाठी एकूण ₹. 24000/- इतका निधी मंजूर करण्यात आला आहे. त्यापैकी योजनेच्या मार्गदर्शक नियमावलीनुसार तसलमात स्वरूपात पहिला हप्ता ₹.12000/- इतका धनादेश क्रं.106934 दि. 29/12/2022 नुसार वितरीत करण्यात येत आहे.

प्रकल्पाचा उर्वरित निधी हा प्राचार्य/संचालक यांच्यामार्फत अंतिम अहवाल, सनदी लेखापरिक्षक यांच्या स्वाक्षरीचे उपयोगिता प्रमाणपत्र व विनियोग दाखले, फलनिष्पत्ती अहवाल व दोन्ही वर्षांची अनुक्रमणिका निहाय देयकांची यादी, मुळ देयकांवर स्वाक्षरी व Rates are reasonable and paid by me असे प्रत्येक देयकावर नमूद करून सर्व कागदपत्रे (एक मुळप्रत व एक छायांकित प्रत) कार्यालयास जमा केल्यानंतर वितरीत करण्यात येईल. प्रकल्प मुदतीनंतर एक महिन्याच्या कालावधीमध्ये उपरोक्त नमूद कागदपत्रे सादर करणे बंधनकारक राहील

कळावे,

आपला विश्वासू,

उपकुलसचिव

महाविद्यालये व विद्यापीठ विकास विभाग

प्रत: 1) मा. प्राचार्य/संचालक,

श्री. यशवंतराव पाटील सायन्स कॉलेज, सोळांकूर, ता. राधानगरी, जि. कोल्हापूर 416212





Estd: 1962

"A++" Accredited by  
NAAC(2021) With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR-416 004,  
MAHARASHTRA

PHONE :EPABX-0231-2609000, 2609145,  
www.unishivaji.ac.in, stats@unishivaji.ac.in

शिवाजीविद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र.

दुरध्वनी: (ईपीएबोएक्स) ०२३१-२६०९०००, २६०९१४५



जा.क्र. मविवि/5/29/ 979

दिनांक: 01 SEP 2022

प्रति,

श्री. प्रकाश शंकर पवार,

श्री. यशवंतराव पाटील सायन्स कॉलेज,

सोळांकूर, ता. राधानगरी,

जि. कोल्हापूर 416212

विषय : Research Grants to College Teacher's 2021-2022 योजनेअंतर्गत  
प्रकल्पाच्या मंजूरी बाबत...

संदर्भ : या विभागाचे SU/C.&U.D.Section/408, dt. 13/01/2022 रोजीचे  
परिपत्रक

महोदय/महोदया,

उपरोक्त संदर्भीय परिपत्रकान्वये Research Grants to College Teacher's या योजनेअंतर्गत सन 2021-2022 या शैक्षणिक वर्षासाठी संशोधन प्रकल्पाचे प्रस्ताव सादर करण्याविषयी कळविण्यात आले होते. त्यास अनुसरून प्राप्त प्रस्तावांची विषयतज्ञांच्या समितीने छाननी केली असून आपल्या Functional nanocomposite of transition metal oxide as a high performing electrode for supercapacitor application या प्रकल्पास मंजूरी देण्यात आली आहे. सदर प्रकल्पासाठी एकूण ₹. 25000/- इतका निधी मंजूर करण्यात आला आहे. त्यापैकी तसलमात स्वरूपात पहिला हप्ता ₹.12500/- इतका वितरीत करण्यात येत आहे. सदर प्रकल्पाचा कालावधी हा मंजूरी पत्राच्या दिनांकापासून दोन वर्षे राहील.

प्रकल्पाचा उर्वरित निधी हा प्राचार्य/संचालक यांच्यामार्फत अंतिम अहवाल, सनदी लेखापरिक्षक यांच्या स्वाक्षरीचे उपयोगिता प्रमाणपत्र व विनियोग दाखले, फलनिष्पत्ती अहवाल व दोन्ही वर्षांची अनुक्रमणिका निहाय मुळ देयकांवर स्वाक्षरी व Rates are reasonable and paid by me असे प्रत्येक देयकावर नमूद करून सर्व कागदपत्रे (एक मुळप्रत व एक छायांकित प्रत) कार्यालयास जमा केल्यानंतर वितरीत करण्यात येईल. प्रकल्प मुदतीनंतर एक महिन्याच्या कालावधीमध्ये उपरोक्त नमूद कागदपत्रे सादर करणे बंधनकारक राहील कळावे,



आपली विश्वासु,

*(Signature)*

उपकुलसचिव

महाविद्यालये व विद्यापीठ विकास विभाग

प्रत : 1) मा. प्राचार्य/संचालक,

श्री. यशवंतराव पाटील सायन्स कॉलेज, सोळांकूर, ता. राधानगरी, जि. कोल्हापूर 416212

2) लेखा (पी.जी. बील्स) विभागास.



SHIVAJI UNIVERSITY, KOLHAPUR-416 004,  
MAHARASHTRA

PHONE: 0231-2609000, 2609008

www.mshivaji.ac.in, e-mail: info@mshivaji.ac.in

शिवाजीविद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र.

दुरध्वनी: (इपीएचएचएस) ०२३१-२६०९०००, २६०९१४५



जा.क्र. मावि.वि.वि/6/30/2022

दिनांक: 01 SEP 2022

प्रति,

श्री. निलेश विष्णु जुनाघरे,

श्री. यशवंतराव पाटील सायन्स कॉलेज,

सोळांकूर, ता. राधानगरी,

जि. कोल्हापूर 416212

विषय: Research Grants to College Teacher's 2021-2022 योजनेअंतर्गत

प्रकल्पाच्या मंजूरी बाबत...

संदर्भ: या विभागाचे SU/C.&U.D.Section/408, dt. 13/01/2022 रोजीचे परिपत्रक  
महोदय/महोदया.

उपरोक्त संदर्भात परिपत्रकान्वये Research Grants to College Teacher's या यात्रेअंतर्गत  
सन 2021-2022 या शैक्षणिक वर्षासाठी संशोधन प्रकल्पाचे प्रस्ताव सादर करण्याविषयी कळविण्यात आले  
होते. त्यास अनुसरून प्राप्त प्रस्तावांची विषयवस्तूच्या मांतीने छाननी केली असून आपल्या Green Synthesis  
and Bioactivity Studies of Dithiocarbamate या प्रकल्पास मंजूरी देण्यात आली आहे. सदर प्रकल्पासाठी  
एकुण ₹. 25000/- इतका निधी मंजूर करण्यात आला आहे. त्यापैकी तत्समतात स्वरूपात पहिला हप्ता  
₹.12500/- इतका वितरित करण्यात येत आहे. सदर प्रकल्पाच्या वगलावधी हा मंजूरी पत्राच्या दिनांकापासून  
दोन वर्षे राहील.

प्रकल्पाच्या उर्वरित निधी हा प्राचार्य/संचालक या व्यापारित अंतिम अहवाल, सनदी लेखापरीक्षक यांच्या  
स्वाक्षरीचे उपयोगिता प्रमाणपत्र व विनियोग दाखले, फलनिष्पत्ती अहवाल व दोन्ही वर्षांची अनुक्रमणिका  
निहाय मुळ देयकपत्रे स्वाक्षरी व Rates are reasonable and paid by me असे प्रत्येक देयकावर नमूद  
करून सर्व कागदपत्रे (एक मुळपत्र व एक छायांकित प्रत) कार्यालयास जमा केल्यानंतर वितरित करण्यात येईल.  
प्रकल्प गुदतीनंतर एक महिन्याच्या वगलावधीमध्ये उपरोक्त नमूद कागदपत्रे सादर करणे बंधनकारक राहील  
कळावे,



आपली विश्वासू,

*[Signature]*

उपकुलसचिव

महाविद्यालये व विद्यापीठ विकास विभाग

प्रत: 1) मा. प्राचार्य/संचालक,

श्री. यशवंतराव पाटील सायन्स कॉलेज, सोळांकूर, ता. राधानगरी, जि. कोल्हापूर 416212

2) लेखापरीक्षक, कोल्हापूर विभाग





Estd: 1962  
NAAC "A" Grade

SHIVAJI UNIVERSITY, KOLHAPUR-416 004 MAHARASHTRA

Colleges and University Development Section

PHONE : EPABX-2609000, 2609145

□ FAX : 0091-231-2691533 & 0091-231-2692333

Website : [www.unishivaji.ac.in](http://www.unishivaji.ac.in) E-mail: [stats@unishivaji.ac.in](mailto:stats@unishivaji.ac.in)

शिवाजी विद्यापीठ, कोल्हापूर - ४१६००४ महाराष्ट्र (महाविद्यालये व विद्यापीठ विकास विभाग)

दुरध्वनी: (ईपीएबीएक्स) २६०९०००, २६०९१४५

□ फॅक्स: ००९१-२३१-२६९१५३३, २६९२३३३, २६९३२९४

Ref No. : SU/C&U.D.Section/Prop. No.: 99/1335

Date: 21 MAR 2021

To,

**Dr. Sushant Tanaji Magdum,**

Shri. Yashwantrao Patil Science College Solankur,

Tal - Radhanagari, Dist - Kolhapur

Sub: Your project entitled, "Effect of Yogasana and Pranayama programme on performance of Football players."

Ref : Our Office Circular No : SU / C.&U.D. Section/ UGK/ 144, dt. 23/5/2019.

Sir / Madam,

With reference to your application for financial assistance for scheme under Research Initiation Scheme-2019-2020, I am directed to inform you that the research project entitled "Effect of Yogasana and Pranayama programme on performance of Football players." has been accepted for the financial support under the scheme for the period of two years. The total grant for the projects will be ₹.70000/- . The first installment (i.e.advance) of ₹.45000/-.

The Details of the funds sanctioned. :

Sr. No	Item	Amount sanctioned in Rs.			Grant released as First installment
		1st Year	2nd Year	Total	
A)	<b>Recurring</b>				
	1) Books and Journals	₹.5000/-	₹.5000/-	₹.10000/-	₹.5000/-
	2) Hiring Services	₹.5000/-	₹.5000/-	₹.10000/-	₹.5000/-
	3) Field Work and Travel	₹.5000/-	₹.5000/-	₹.10000/-	₹.5000/-
	4) Chemical and Glassware	₹.0/-	₹.0/-	₹.0/-	₹.0/-
	5) Contingency	₹.10000/-	₹.10000/-	₹.20000/-	₹.10000/-
B)	<b>Non-recurring</b>				
	*Equipment	₹.20000/-	₹.0/-	₹.20000/-	₹.20000/-
	<b>Total</b>	₹.45000/-	₹.25000/-	₹.70000/-	₹.45000/-

\* Name of the Equipment Equipment :Football, Goal Post, Net, Yoga Kit etc..

**\*\*Once the Project grant is approved, No Chages can be made to the funding.\*\***

Thanking you,



Yours faithfully,  
  
Deputy Registrar,  
Colleges and University  
Development Section  
Shivaji University, Kolhapur

Encl. :- As above

Copy to:

- Account (P.G. Bill) Section
- The Head/ Principal, Shri. Yashwantrao Patil Science College Solankur, Tal - Radhanagari, Dist - Kolhapur.

**SHIVAJI UNIVERSITY, KOLHAPUR  
RESEARCH INITIATION SCHEME**

**Utilization certificate**

Certified that the grant of Rs. 45,000/- (Rupees forty five thousand only) received from the University under the scheme of support for Research Project entitled "**Effect of** **Yogasana** and Pranayama Programme on Performance of Football Players" vide Shivaji University letter No. SU/C & U.D. Section/99/137 dated 6<sup>th</sup> August 2021 has been fully utilized for the purpose for which it was sanctioned and in accordance with the terms and conditions laid down by the University.



For SACHHIDANAND & CO.  
Chartered Accountants

*S. S. Kulkarni*

CA Sachhidanand S. Kulkarni  
M.No.136842  
FRN 144323W

Signature of the  
Principal Investigator

*[Signature]*

UDIN 22136842APSTEG 1730

Signature of the Principal



*[Signature]*

PRINCIPAL

Shri Yashwantrao Patil Science College,  
Solankur, Tal. Radhanagar, Dist. Kolhapur.

**SHIVAJI UNIVERSITY, KOLHAPUR**  
**RESEARCH INITIATION SCHEME**  
**Statement of Expenditure in respect of Research Project**

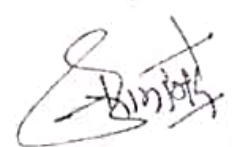
- 1) Name of Principal Investigator :- Dr. Sushant Tanaji Magdum  
 2) Name of College/Institution :- Shri. Yashwantrao Patil Science College, Solankur  
 3) University approval No. and Date :- Ref. No.: SU/C&U.D.Section/Prop.No.:99/1335  
 Date:- 1<sup>st</sup> March 2021  
 4) Title of the Research Project :- "Effect of Yogasana and Pranayama Programme on Performance of Football Players  
 5) Effective date of starting the project :- 6<sup>th</sup> August 2021  
 6) (a) Period of Expenditure :- From 6<sup>th</sup> August 2021 to 5<sup>th</sup> August 2022  
 (b) Details of Expenditure

Item	Sanctioned Amount (Rs.)	Expenses incurred (Rs.)
A) Non-recurring component:		
i) Equipment	Rs. 20,000/-	Rs. 20,000/-
ii) Books/Journals	Rs. 5000/-	Rs. 5000/-
B) Recurring component:		
(i) Hiring Services	Rs. 5,000/-	Rs. 5,000/-
(ii) Field Work and Travel	Rs. 5,000/-	Rs. 5,000/-
(iii) Chemicals and glassware	Rs. 0/-	Rs. 0/-
(iv) Contingency (including special needs)	Rs. 10,000/-	Rs. 10,000/-
<b>Total (Rs.)</b>	<b>Rs. 45,000/-</b>	<b>Rs. 45,000/-</b>

- (b) (1) As a result of check or audit objective, some irregularity is noticed, at a later Date, action will be taken to refund, adjust or regularize the objected amounts.
- (2) It is certified that the grant of Rs. 45,000/- (Rupees forty five thousand only) received from the University under the scheme of support for Research Project entitled "Effect of Yogasana and Pranayama Programme on Performance of Football Players" vide University letter No Ref. No.: SU/C&U.D.Section/99/137 dated 6<sup>th</sup> August 2021 has been fully utilized for the purpose for which it was sanctioned and in accordance with the terms and conditions laid down by the University.


  
 Principal Investigator

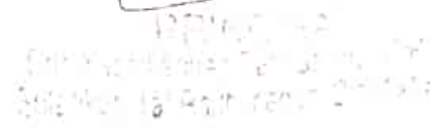
Principal



Statutory Auditor



  
**S. S. KULKARNI**  
 C.A.  
 Membership No. 436842






**SHIVAJI UNIVERSITY KOLHAPUR**  
**RESEARCH STRENGTHENING SCHEME**

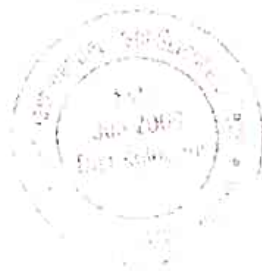
**Summary of Expenditure utilized**

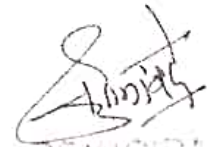
Sr.No.	Item	Amount (Rs)	Page No.
A)	Recurring		
1	Books and Journals	Rs. 5,000/-	01
2	Hiring Services	Rs. 5,000/-	02
3	Fieldwork and Travel	Rs. 5,000/-	03
4	Contingency (Including special needs)	Rs. 10,000/-	04 & 05
B)	Non- Recurring		
	Equipment	Rs. 20,000/-	06
	Total	Rs. 45,000/-	06



  
**S. S. KULKARNI**  
C.A.  
Membership No. 130842

  
Principal Investigator



Principal  
  
PRINCIPAL  
Shivaji University Kolhapur  
Sudhakar, Tal. Kolhapur Dist. Kolhapur



Estd: 1962

"A++"

Accredited by NAAC  
with CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR-416 004 MAHARASHTRA  
Colleges and University Development Section  
PHONE :EPABX-2609000, 2609145

□ FAX :0091-231-2691533 & 0091-231-2692333

Website : [www.unishivaji.ac.in](http://www.unishivaji.ac.in) E-mail: [stats@unishivaji.ac.in](mailto:stats@unishivaji.ac.in)

शिवाजी विद्यापीठ, कोल्हापूर - ४१६००४ महाराष्ट्र (महाविद्यालये व विद्यापीठ विकास विभाग)

दुरध्वनी: (ईपीएबीएक्स) २६०९०००, २६०९१४५

□ फॅक्स: ००९१-२३१-२६९१५३३, २६९२३३३, २६९३२९४

Ref No. : SU/C&U.D.Section/68/137

Date 16 AUG 2021

To,

**Mr. Amarnath Pandit Patil**

Shri. Yashwantrao Patil Science College Solankur,  
Tal - Radhanagari, Dist - Kolhapur

Sub. :- Grants Release order under Research Initiation Scheme 2019-2020.

Sir/Madam,

With reference to above mentioned subject, I am directed to inform you that, the University authorities have approved your research proposal entitled "*An algebraic study of automata using transformation semigroups and their minimization problem*" under Research Initiation Scheme 2019-2020.

- As per project guidelines, total grants of ₹. 60000/- has been sanctioned to your research project and out of grant ₹. 50000/- sending herewith as a first installment vide cheque bearing number 087081:29/7/2021.
- The second installment of remaining grants will be released after submission of Final Report, Utilization Certificate, Statement of Expenditure & Two Years Original Bills.
- The effective date of start of the project should be the date on which Cheque Issue. The total period of the project will be for two years and under no circumstances it will be extended further.

Thanking you,

Yours faithfully,

Deputy Registrar,  
Colleges & Univeristy Development  
Section

Shivaji University, Kolhapur.

Encl. : As above.

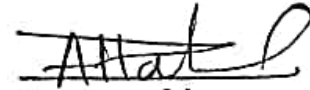
Copy to;

The Principal/Head of the Department,  
Shri. Yashwantrao Patil Science College Solankur, Tal - Radhanagari, Dist - Kolhapur

**SHIVAJI UNIVERSITY, KOLHAPUR  
RESEARCH INITIATION SCHEME**

**Utilization certificate**

Certified that the grant of Rs. 50,000/- (Rupees fifty thousand only) received from the University under the scheme of support for Research Project entitled "An Algebraic Study of Automata Theory Using Transformation Semigroups and Their Minimization Problem" vide Shivaji University letter Ref. No.: SU / C&U.D. Section / 68 / 137 dated 6<sup>th</sup> August 2021 has been fully utilized for the purpose for which it was sanctioned and in accordance with the terms and conditions laid down by the University.



Signature of the  
Principal Investigator



Signature of the Principal

**PRINCIPAL**

Shri Yashwantrao Patil Science College,  
Solankur, Tal. Radhanagari, Dist. Kolhapur.

For SACHHIDANAND & CO.  
Chartered Accountants



CA Sachhidanand S. Kulkarni  
M.No.136842  
FRN 144323W



UDIN 22136842 AYIVQ53727





Accredited by NAAC  
with CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR-416 004 MAHARASHTRA  
Colleges and University Development Section  
PHONE :EPABX-2609000, 2609145  
□ FAX :0091-231-2691533 & 0091-231-2692333  
Website : [www.unishivaji.ac.in](http://www.unishivaji.ac.in) E-mail: [stats@unishivaji.ac.in](mailto:stats@unishivaji.ac.in)  
शिवाजी विद्यापीठ, कोल्हापूर - ४१६००४ महाराष्ट्र (महाविद्यालये व विद्यापीठ विकास विभाग)  
दुरध्वनी: (ईपीएबीएक्स) २६०९०००, २६०९१४५  
□ फॅक्स: ००९१-२३१-२६९१५३३, २६९२३३३, २६९३२९४

Ref No. : SU/C&U.D.Section/108/137

Date: 6 AUG 2021

To,

**Mr. Swapnil Dattatray Khorate**

Shri. Yashwantrao Patil Science College,  
Solankur, Tal. - Radhanagari, Dist. - Kolhapur.

Sub. :- Grants Release order under Research Initiation Scheme **2019-2020.**

Sir/Madam,

With reference to above mentioned subject, I am directed to inform you that, the University authorities have approved your research proposal entitled "*On Data Depth Based Procedures for Multivariate Data Analysis*" under Research Initiation Scheme 2019-2020.

- As per project guidelines, total grants of ₹. **85000/-** has been sanctioned to your research project and out of grant ₹. **42500/-** sending herewith as a first installment vide cheque bearing number **087082:29/7/2021.**
- The second installment of remaining grants will be released after submission of Final Report, Utilization Certificate, Statement of Expenditure & Two Years Original Bills.
- The effective date of start of the project should be the date on which Cheque Issue. The total period of the project will be for two years and under no circumstances it will be extended further.

Thanking you,

Yours faithfully,

**Deputy Registrar,**  
Colleges & Univeristy Development  
Section  
Shivaji University, Kolhapur.

Encl. : As above.

Copy to;  
The Principal/Head of the Department,  
Shri. Yashwantrao Patil Science College,  
Solankur, Tal. - Radhanagari, Dist. - Kolhapur.

**SHIVAJI UNIVERSITY, KOLHAPUR  
RESEARCH INITIATION SCHEME**

**Annexure-D**

**Utilization certificate**

Certified that the grant of Rs. 42,500/- (Rupees forty two thousand five hundred only) received from the University under the scheme of support for Research Project entitled "On Data Depth Based Procedures for Multivariate Data Analysis" vide Shivaji University letter No. SU/C & U.D. Section/ 108/137 dated 6<sup>th</sup> August 2021 has been fully utilized for the purpose for which it was sanctioned and in accordance with the terms and conditions laid down by the University.



For SACHHIDANAND & CO.  
Chartered Accountants

*S. S. Kulkarni*

CA Sachhidanand S. Kulkarni  
M.No.136842  
FRN 144323W

*[Signature]*

Signature of the  
Principal Investigator

UDIN 22136842ARSTLZ7146.



*[Signature]*  
Signature of the Principal  
PRINCIPAL

Shri Yashwantrao P. Solankur  
Solankur, T. P.





SHIVAJI UNIVERSITY, KOLHAPUR-416 004 MAHARASHTRA  
Colleges and University Development Section  
PHONE :EPABX-2609000, 2609145  
FAX :0091-231-2691533 & 0091-231-2692333  
Website : [www.unishivaji.ac.in](http://www.unishivaji.ac.in) E-mail: [stats@unishivaji.ac.in](mailto:stats@unishivaji.ac.in)  
शिवाजी विद्यापीठ, कोल्हापूर - ४१६००४ महाराष्ट्र (महाविद्यालये व विद्यापीठ विकास विभाग)  
दुरध्वनी: (ईपीएबीएक्स) २६०९०००, २६०९१४५  
फॅक्स: ००९१-२३१-२६९१५३३, २६९२३३३, २६९२३३३

Ref No. : SU/C&U.D.Section/37/184

Date: 15 MAY. 2018

To,  
Dr. Atul Dinkar Kamble  
Shri Yashwantrao Patil Science Collge,  
Solankur, Tal-Radhanagri Kolhapur.

Sub: Your project entitled, "Synthesis of biodegradable water absorption Polymers from different types of oils for Agriculture purposes"

Ref: Our Office Circular No : SU / C.&U.D. Section/ UGK/ 347, dt. 11/07/2017.

Sir / Madam,

With reference to your application for financial assistance for scheme under Research Initiation Scheme-2017-2018, I am directed to inform you that the research project entitled "Synthesis of biodegradable water absorption Polymers from different types of oils for Agriculture purposes" has been accepted for the financial support under the scheme for the period of two years (2018-2019 to 2019-2020). The total grant for the projects will be ₹.125000/- (₹. One Lakhs Twenty Five Thousand Only). The first installment (i.e.advance) of ₹.105000/- (₹. One Lakhs Five Thousand Only) will be released after receiving the following documents i.e. University approval letter (Change in Staff), appointment letter, Confirmation Order, Undertaking duly signed by the P.I and Principal in the prescribed format, Acceptance letter (Annex. B), Aadhar Card Zerox, Pan Card Zerox, Passbook zerox (Joint passbook), Advance Stamp Receipt etc.,

The Details of the funds sanctioned.:

Sr. No	Item	Amount sanctioned in Rs.			Grant released as First Installment
		1 <sup>st</sup> Year	2 <sup>nd</sup> Year	Total	
A)	<b>Recurring</b>				
	1) Books and Journals	₹.5000/-	₹.0/-	₹. 5000/-	₹. 5000/-
	2) Hiring Services	₹. 0/-	₹.0/-	₹. 0/-	₹. 0/-
	3) Field Work and Travel	₹.2500/-	₹.2500/-	₹. 5000/-	₹. 2500/-
	4) Chemical and Glassware	₹.15000/-	₹.15000/-	₹.30000/-	15000/-
	5) Contingency	₹.2500/-	₹.2500/-	₹. 5000/-	₹. 2500/-
B)	<b>Non-recurring</b>				
	*Equipment	₹. 80000/-	₹. 0/-	₹. 80000/-	₹. 80000/-
	<b>Total</b>	₹. 105000/-	₹. 20000/-	₹. 125000/-	₹. 105000/-

Name of the Equipment : Digital Balance, Heating Mantle, Nitrogen Gas Cylinder, Melting Point Apparatus and Laptop

Kindly submit the above documents with duly signed in prescribed format to Registrar, Shivaji University, Kolhapur, at the earliest so as to release the grant.

Thanking you,

Yours faithfully,

Deputy Registrar,  
Colleges and University Development Section  
Shivaji University, Kolhapur

Encl. :- As above  
Copy to:

- Account (P.G. Bill) Section
- The Principal/Head, Shri Yashwantrao Patil Science Collge, Solankur, Tal-Radhanagri Kolhapur
- Dr. P. V. Anbhule, Co-ordinator, Department of Chemistry, Shivaji University, Kolhapur.



Estd: 1962

"A++" Accredited by  
NAAC(2021) With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR-416 004,  
MAHARASHTRA

PHONE :EPABX-0231-2609000, 2609145,  
www.unishivaji.ac.in, stats@unishivaji.ac.in

शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र.

दुरध्वनी: (ईपीएबीएक्स) ०२३१-२६०९०००, २६०९१४५



Annexure – H

SHIVAJI UNIVERSITY, KOLHAPUR  
RESEARCH INITIATION SCHEME

Project Completion Certificate

This is to certify that ~~Mr./Mrs./Ms/Dr./Prof.~~ Atul Dinkar Kamble of Shri. Yashwantrao Patil Science Collge, Solankur, Tal-Radhanagri, Kolhapur has successfully completed research scheme entitled "Synthesis of biodegradable water absorption Polymers from different types of oils for Agriculture purposes" sanctioned by Shivaji University, Kolhapur under Research Initiation Scheme during dt. 06/07/2018 to 05/07/2020. He /She worked as Principal Investigator/~~Co-Principal Investigator~~ for the project.

Date :- 18 MAY 2023



Signature

Coordinator,

Research Initiation Scheme  
Shivaji University, Kolhapur



M/S.PATIL GHEVADE MAHAPURKAR  
& ASSOCIATES  
Chartered Accountants  
K. S. PATIL  
B.Sc.(Hons) F.C.A.  
Partner

Flat No. 2,  
Station View Apartment, Ghorpade Galli,  
Behind M/s. Rote Brothers,  
Shahupuri,  
Kolhapur-416001  
Phone: (0231) 2659392  
9822095270

## Utilization Certificate for the Scheme of Synthesis Of Biodegradable Water Absorption Polymers From Different Types Of Oils For Agricultural Purposes

Certificate that the Atul Dinkar Kamble Shri Yashwantrao Patil Science College, Solankur, Worked As A Synthesis Of Biodegradable Water Absorption Polymers From Different Types Of Oils For Agricultural Purposes Research Fellow Colleges And University Development Section Shivaji University, Kolhapur From 15 May 2018 Recently Sanction Letter No. SU/C&U.D. Section/37/184 and grant of Rs. 20000/- (Rs. Twenty Thousand Only) has been received by the Atul Dinkar Kamble of Shri Yashwantrao Patil Science College, Solankur the Scheme Synthesis Of Biodegradable Water Absorption Polymers From Different Types Of Oils For Agricultural Purposes With reference to the Vouchers and books of accounts, submitted to me, it is hereby certified that Dean/Principal of this College/Institute has utilized the grant of Rs. 18,866/- (Eighteen Thousand Eight Hundred Sixty-Six Only) for the said purpose.

Place : Kolhapur  
Date : 25/02/2022

For M/s. Patil Ghevade Mahapurkar  
& Associates  
Chartered Accountants



(CA. Kashinath S. Patil)  
M.No. 118103

UDIN- 22118103ADQFCT1068

Principal  
PRINCIPAL

Shri Yashwantrao Patil Science College,  
Solankur, Tal. Radhanagari, Dist. Kolhapur.



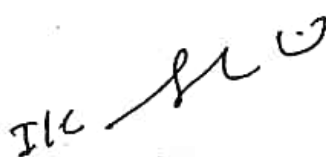
**SHIVAJI UNIVERSITY, KOLHAPUR**  
**RESEARCH STRENGTHENING SCHEME**  
**UTILISATION CERTIFICATE**

Certified that the grant of ₹. 105000/- (Rupees One lakh five Thousand only) received from the University under the Research Strengthening Scheme of support for Research Project entitled "Synthesis of biodegradable water absorption polymers from different types of oils for agricultural purposes" vide Shivaji University letter No. F. SU/C. U & D. Section/37/550 dated 26 July 2018 has been fully utilized for the purpose for which it was sanctioned and in accordance with the terms and conditions laid down by the University.



Signature of the  
Principal Investigator





Signature of the  
Principal  
Principal  
Shri. Yashwantrao Patil  
Science College, Solankur

SIGNATURE OF THE UNIVERSITY STATUTORY AUDITOR





## SHIVAJI UNIVERSITY, KOLHAPUR

## RESEARCH INITIATION SCHEME

Summary of expenditure

Sr. No	Bill No.	Date	Party Name	Amount	Page No.
<b>A) Non-Recurring Components:</b>					
<b>i) Equipment:</b>					
1)	141	06/09/2018	Eagle Scientific Co., Kolhapur	57230/-	1
2)	8970	05/08/2018	Reliance retail Ltd, Kolhapur	24296	2/3
<b>ii) Books/Journals:</b>					
1)	12025	23/09/2018	Granth book world, Kolhapur	2440	4
2)	12026	23/09/2018	Granth book world, Kolhapur	2764	4
<b>Recurring Components:</b>					
<b>i) Hiring Services: Nil</b>					
1)	-	-	-	-	
<b>ii) Field Work And Travel :</b>					
1)	58	13/02/2019	Samarth Travels	800/-	5
2)	19	15/02/2019	Samarth Travels	800/-	6
3)	38	27/05/2019	Samarth Travels	800/-	7
4)	20	07/06/2019	Own Bike	200/-	8
<b>iii) Chemicals and Glassware:</b>					
1)	140	16/10/2018	Eagle Scientific Co., Kolhapur	11718/-	9
2)	138	16/10/2018	Eagle Scientific Co., Kolhapur	5744/-	10
<b>iv) Contingency:</b>					
1)	19	17/09/2018	Krishnai Stationary, Solankur	1147/-	11
2)	09	07/01/2019	Sai Stat. and Zerox, Solankur	1400/-	12
<b>Total</b>				<b>109339/-</b>	

Sign

Principal Investigator



For M/s. Patil Gheva Mahapurkar & Associates  
Chartered Accountants

Partner  
CA. Hashinath S. Patil  
M. No. 118103



Estd: 1962  
NAAC "A" Grade

SHIVAJI UNIVERSITY, KOLHAPUR-416 004 MAHARASHTRA

Colleges and University Development Section

PHONE :EPABX-2609000, 2609145

□ FAX :0091-231-2691533 & 0091-231-2692333

Website : [www.unishivaji.ac.in](http://www.unishivaji.ac.in) E-mail: [stats@unishivaji.ac.in](mailto:stats@unishivaji.ac.in)

शिवाजी विद्यापीठ, कोल्हापूर - ४१६००४ महाराष्ट्र (महाविद्यालये व विद्यापीठ विकास विभाग)

दुरध्वनी: (ईपीएबीएक्स) २६०९०००, २६०९१४५

□ फॅक्स: ००९१-२३१-२६९१५३३, २६९२३३३, २६९३२९४

Ref No. : SU/C&U.D.Section/98/२८७

Date: 10 MAY 2018

To,

**Dr.Lagade Vishwajeet Mahadev,**

Shir Yashwantrao Patil Science College,

Solankur, Tal-Radhanagri Kolhapur.

Sub: Your project entitled, *"Integrated Environmental Quality Assessment of Dudhganag River with special reference to Anthropogenic Activities and Threats from Kolhapur District, Maharashtra"*

Ref: Our Office Circular No : SU / C.&U.D. Section/ UGK/ 347, dt. 11/07/2017.

Sir / Madam,

With reference to your application for financial assistance for scheme under Research Initiation Scheme-2017-2018, I am directed to inform you that the research project entitled *"Integrated Environmental Quality Assessment of Dudhganag River with special reference to Anthropogenic Activities and Threats from Kolhapur District, Maharashtra"* has been accepted for the financial support under the scheme for the period of two years (2018-2019 to 2019-2020). The total grant for the projects will be ₹.125000/- (₹. One Lakhs Twenty Five Thousand Only). The first installment (i.e.advance) of ₹.112500/- (₹. One Lakhs Twelve Thousand Five Hundred Only) will be released after receiving the following documents i.e. *University approval letter (Change in Staff), appointment letter, Confirmation Order, Undertaking duly signed by the P.I and Principal in the prescribed format, Acceptance letter (Annex. B), Aadhar Card Zerox, Pan Card Zerox, Passbook zerox (Joint passbook), Advance Stamp Receipt etc.,*

The Details of the funds sanctioned. :

Sr. No	Item	Amount sanctioned in Rs.			Grant released as First installment
		1 <sup>st</sup> Year	2 <sup>nd</sup> Year	Total	
A)	<b>Recurring</b>				
	1) Books and Journals	₹.0/-	₹.0/-	₹.0/-	₹.0/-
	2) Hiring Services	₹.0/-	₹.0/-	₹.0/-	₹.0/-
	3) Field Work and Travel	₹.5000/-	₹.5000/-	₹.10000/-	₹.5000/-
	4) Chemical and Glassware	₹.5000/-	₹.5000/-	₹.10000/-	5000/-
	5) Contingency	₹.2500/-	₹.2500/-	₹.5000/-	₹.2500/-
B)	<b>Non-recurring</b>				
	*Equipment	₹.100000/-	₹.0/-	₹.100000/-	₹.100000/-
	<b>Total</b>	₹.112500/-	₹.12500/-	₹.125000/-	₹.112500/-

\* Name of the Equipment Equipment : UV Spectrophoto meter, Camera, Light Microscope

Kindly submit the above documents with duly signed in prescribed format to Registrar, Shivaji University, Kolhapur at the earliest.



Annexure-D

SHIVAJI UNIVERSITY, KOLHAPUR  
RESEARCH STRENGTHENING SCHEME

Utilization certificate

Certified that the grant of ₹.1, 2500/- (Rupees, Twelve Thousand Five Hundred Only) sanctioned grant for second year from the University under the Research Strengthening Scheme of support for Research Project entitled "Integrated Environmental Quality Assessment of Dudhganga River with special reference to Anthropogenic Activities and Threats from Kolhapur District, Maharashtra". vide Shivaji University letter No. SU/BCUD/98/227 Dated 10 May 2018 out of which Rs, 12342/- (Twelve Thousand Three Hundred Fourty Two only ) has been fully utilized for the purpose for which it was sanctioned and in accordance with the terms and conditions laid down by the University.

Signature of the  
Principal Investigator / Co-Investigator

Signature of the  
Signature of the Head / Director / Coordinator of the University  
Department

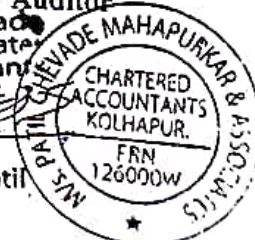
**PRINCIPAL**

Shri.Yashwantrao Patil  
Science College, Solankur



Signature of the  
University statutory Auditor  
For M/s. Patil Ghevade  
Mahapurkar & Associates  
Chartered Accountants

Partner  
CA. Kashinath S. Patil  
M. No. 118103





श्रीवाजी विद्यापीठ कोल्हापूर  
जानमेवामृतम्  
Estd. 1962  
NAAC "A" Grade

**SHIVAJI UNIVERSITY, KOLHAPUR-416 004 MAHARASHTRA**  
**Colleges and University Development Section**  
 PHONE : EPABX-2609000, 2609145  
 FAX : 0091-231-2691533 & 0091-231-2692333  
 Website : [www.unishivaji.ac.in](http://www.unishivaji.ac.in) E-mail: [stats@unishivaji.ac.in](mailto:stats@unishivaji.ac.in)  
 शिवाजी विद्यापीठ, कोल्हापूर - ४१६००४ महाराष्ट्र (महाविद्यालये व विद्यापीठ विकास विभाग)  
 दूरध्वनी: (इंगीएवोएक्स) २६०९०००, २६०९१४५  
 फॅक्स: ००९१-२३१-२६९१५३३, २६९२३३३, २६९३२९४

Ref No. : SU/C&U.D.Section/85/ 232 Date: 10 MAY 2018

To,  
**Dr. Sikander Hamid Tamboli,**  
 Shri. Yashwantrao Patil Science College,  
 Solankur Tal- Radhanagari, Dist: Kolhapur.

Sub: Your project entitled, "*Chemical based Graphene/NIO Composite Paper Electrode Synthesis for Hybrid Supercapacitor*"  
 Ref: Our Office Circular No : SU / C.&U.D. Section/ UGK/ 347, dt. 11/07/2017.

Sir / Madam,  
 With reference to your application for financial assistance for scheme under Research Initiation Scheme-2017-2018, I am directed to inform you that the research project entitled "*Chemical based Graphene/NIO Composite Paper Electrode Synthesis for Hybrid Supercapacitor*" has been accepted for the financial support under the scheme for the period of two years (2018-2019 to 2019-2020). The total grant for the projects will be ₹.125000/- (₹. One Lakhs Twenty Five Thousand Only). The first installment (i.e.advance) of ₹.112500/- (₹. One Lakhs Twelve Thousand Five Hundred Only) will be released after receiving the following documents i.e. *University approval letter (Change in Staff), appointment letter, Confirmation Order, Undertaking duly signed by the P.I and Principal in the prescribed format, Acceptance letter (Annex. B), Aadhar Card Zerox, Pan Card Zerox, Passbook zerox (Joint passbook), Advance Stamp Receipt etc.,*

The Details of the funds sanctioned. :

Sr. No	Item	Amount sanctioned in Rs.			Grant released as First installment
		1 <sup>st</sup> Year	2 <sup>nd</sup> Year	Total	
A)	<b>Recurring</b>				
	1) Books and Journals	₹.0/-	₹.0/-	₹.0/-	₹.0/-
	2) Hiring Services	₹.0/-	₹.0/-	₹.0/-	₹.0/-
	3) Field Work and Travel	₹.0/-	₹.0/-	₹.0/-	₹.0/-
	4) Chemical and Glassware	₹.10000/-	₹.10000/-	₹.20000/-	10000/-
	5) Contingency	₹.2500/-	₹.2500/-	₹.5000/-	₹.2500/-
B)	<b>Non-recurring</b>				
	*Equipment	₹.100000/-	₹.0/-	₹.100000/-	₹.100000/-
	<b>Total</b>	₹.112500/-	₹.12500/-	₹.125000/-	₹.112500/-

\* Name of the Equipment Equipment : Centrefuge Machine, pH mater, Magnetic Stirrer, Digital weight Balance and Micropipette

Kindly submit the above documents with duly signed in prescribed format to Registrar, Shivaji University, Kolhapur, at the earliest so as to release the grant.  
 Thanking you,

Yours faithfully,  
  
 Deputy Registrar,  
 Colleges and University Development Section  
 Shivaji University, Kolhapur

Encl. :- As above  
 Copy to:

- Account (P.G. Bill) Section
- The Principal/Head, Shri. Yashwantrao Patil Science College, Solankur Tal- Radhanagari Dist: Kolhapur



**SHIVAJI UNIVERSITY, KOLHAPUR  
RESEARCH INITIATION SCHEME**

**Utilization Certificate**

Certified that the of Rs. 112500/- Rupees One Lakh Twelve Thousand Five Hundred only) received from the University in first year (2018-19) and Rs. 00/- (Rupees zero zero) in second year (2019-2020) under the scheme of support for Research Project entitled 'Chemical based Graphene/NiO Composite Paper Electrode Synthesis for Hybrid Supercapacitor' vide Shivaji University letter No.

F.SU/C&U.D.Section/85/581 dated 27/07/2018 has been fully utilized for the purpose for which it was sanctioned and in accordance with the terms and conditions laid down by the University.



*[Signature]*  
Dr. Sankar H. Tamboli  
P.I. Minor Research Project  
Shivaji University Kolhapur  
Assistant Professor,  
Shri Yashwantrao Patil  
Science College, Solapur.

*[Signature]*  
**PRINCIPAL**  
Signature of the  
Shri. Yashwantrao Patil  
Principal/Director of the Department  
Science College, Solapur

For Sankpal Kulkarni & Associates  
Chartered Accountants

*[Signature]*  
(Shrirang Kulkarni)  
Partner, M. No. 108722  
FRN 121256W



UDIN - 20108722AAAAAW2652



## SHIVAJI UNIVERSITY, KOLHAPUR

## RESEARCH INITIATION SCHEME

## Statement of Expenditure in respect of Research Project

- 1) Name of Principal Investigator **Dr. Sikandar H. Tamboli**
- 2) Name of College/Institution **Shri. Yashwantrao Patil Science College, Solankur**
- 3) University approval No. and Date **SU/C&U.D.Section/85/232, 10/05/2018**
- 4) Title of the Research Project **Chemical based Graphene/NiO Composite Paper**

**Electrode Synthesis for Hybrid Supercapacitor**

- 5) Effective date of starting the project **02/08/2018**
- 6) (a) Period of Expenditure: From : **02/08/2019 to 01/08/2020**

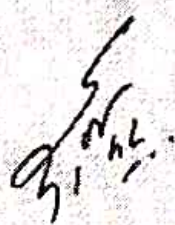
(b) Details of Expenditure As below

Item	Sanctioned Amount in 2 <sup>nd</sup> year (Rs.)	Expenses incurred in 2 <sup>nd</sup> year (Rs.)
<b>A) Non-recurring component :</b>	00	00
i) Equipment	00	00
ii) Books/Journals	00	00
<b>B) Recurring component :</b>	00	00
(i) Hiring Services	00	00
(ii) Field Work and Travel	00	00
(iii) Chemicals and glassware	00	00
(iv) Contingency (including special needs)	00	00
<b>Total (Rs.)</b>	00	00

(c) (1) As a result of check or audit objective, some irregularity is noticed, at a later Date, action will be taken to refund, adjust or regularize the objected amounts.

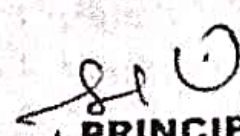


(2) It is certified that the grant of Rs. 112500/- Rupees One Lakh Twelve Thousand Five Hundred only received from the University in first year (2018-19) and Rs. 00/- (Rupees zero) in second year (2019-2020) under the scheme of support for Research Project entitled Chemical based Graphene/NiO Composite Paper Electrode Synthesis for Hybrid Supercapacitor vide University letter No SU/C&U.D.Section/85/581 dated 27/07/2018 has been fully utilized for the purpose for which it was sanctioned and in accordance with the terms and conditions laid down by the University.

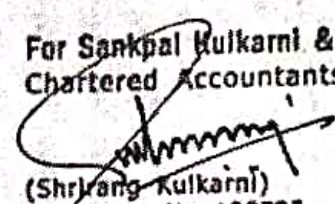
  
Principal Investigator

**Dr. Sikandar H. Tamboli**  
PI. Minor Research Project  
RIS Shivaji University Kolhapur  
Assistant Professor,  
Shri Yashwantrao Patil  
Science College Solankur.



  
**PRINCIPAL**  
Shri. Yashwantrao Patil  
Science College Solankur  
Principal/Director/Head of the University Department

For Sankpal Kulkarni & Associates  
Chartered Accountants

  
(Sankpal Kulkarni)  
Partner, M. No. 106722  
FIR 121256W

Statutory Auditor





# Shivaji University, Kolhapur



the Chancellor, Vice-Chancellor and Members of the Management Council on the recommendation of the Academic Council certify that

*Kherale Swapnil Dattatray*  
Mother's Name - Bharati



has passed the

*Doctor of Philosophy*

*in Statistics*

*in faculty of Science And Technology*

*on 28<sup>th</sup> December, 2022.*

*The said degree has been conferred on him*

*at Kolhapur in the Summer Session*

*of the year two thousand twenty three.*

**In Testimony** whereof are set the seal of the university and the signatures of the Registrar and the Vice-Chancellor.

*[Signature]*  
Ag Registrar



*[Signature]*  
Vice-Chancellor



**Savitribai Phule Pune University**  
(formerly University of Pune)

**Declaration of Result of the Doctor of Philosophy (Ph. D.)**

**Junghare Nilesh Vishnu**

( जुनघरे निलेश विष्णू )

**Mother's Name : Kantabai**

( कांताबाई )

University has accepted thesis submitted by the above mentioned candidate for award of Ph.D., as per reports of referees and examiners of open defence of the thesis. Accordingly, it is hereby notified that, the above mentioned candidate is declared to have passed the examination of Ph.D. and has become eligible for the award of Ph. D. Degree.

**RELEVANT DETAILS ARE AS UNDER:**

1. Faculty : Science & Technology
2. Subject : Chemistry
3. Title of the Thesis : "Synthesis, Characterization and Biological Activities of N, S Containing Dithiocarbamate Schiff Bases and Transition Metal Complexes of Substituted Acetophenone and Benzaldehyde"
4. Place of Research : Pune District Education Association's Annasaheb Magar Mahavidyalaya, Hadapsar, Pune - 411 028.
5. Name and Address of the Guide : Dr. Jagtap Shrikant Balkrishna  
Pune District Education Association's Annasaheb Magar Mahavidyalaya, Hadapsar, Pune - 411 028.
6. Date of Registration : 17<sup>th</sup> March, 2018
7. Date of Declaration of Result : 10<sup>th</sup> November, 2022



Ganeshkhind, Pune 411007.  
Ref. No. PGS/Ph.D. / 28  
Date : 06/11/2023

*[Signature]*  
Director, 4/1/2023  
Board of Examinations and Evaluation





SHIVAJI UNIVERSITY, KOLHAPUR-416 004. MAHARASHTRA  
PHONE : EPABX-2609000 PGBUTR - 2609139  
FAX : +91-0231-2691533 & 2692333 website: www.unishivaji.ac.in  
शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र  
दूरध्वनी : (प्रभोदध्वनी) २६०९००० वीरळी ध्वनी २६०९१३९, २६०९  
फॅक्स : +९१-०२३१-२६९१५३३ व २६९२३३३  
e-mail : pgbutr@unishivaji.ac.in

Ref. No. : SU/PGBUTR/Recog/ 5913/288/220 | 10871

Date : 04 JUN 2022

To,  
Dr. Patil Rahul Bharamgonda  
Shri. Yashwantrao Patil Science Mahavidyalaya,  
Near Govt. Hospital, Solankur,  
Tal - Radhanagari, Dist. Kolhapur-416212

Sub : Recognition as a Research Guide for M.Phil., Ph.D.,

Sir/Madam,

With reference to your application dated 29-NOV-21 for recognition as a Research Guide for M.Phil., Ph.D., I am directed to inform you that the University Authorities are pleased to grant recognition as mentioned below

Degree	Subject	Type of Recognition
M.Phil. & Ph.D.	Physics	Permanent

Note :-

1. This recognition is valid till you are in regular services of the University Department / Affiliated College / Institution affiliated to this University and will be eligible to guide research students as per the rules prescribed by the University authorities, from time to time.
2. If you are rejoining Department / College / Institution affiliated to this University, you will have to inform this office with necessary documents for continuation of the said recognition.
3. If you are a recognized guide of any other University, you will have to inform this office, failing which necessary action will be taken.
4. As per University Grants Commission (Minimum Standards and Procedure for Award of M.Phil. /Ph.D. Degree) Regulations, 2016, a Research Guide/Co-Guide who is Professor, at any given point of time, cannot guide more than three (3) M.Phil. and eight (8) Ph.D. scholars. An Associate Professor as Research Guide can guide upto a maximum of two (2) M.Phil. and six (6) Ph.D. scholars and an Assistant Professor as Research Guide can guide upto a maximum of one (1) M.Phil. and four (4) Ph.D.

Yours faithfully,

Dr. V. N. Shinde  
Ag. Registrar

Copy forwarded with compliments to:  
The Principal,  
Shri. Yashwantrao Patil Science Mahavidyalaya,  
Near Govt. Hospital, Solankur,  
Tal - Radhanagari, Dist. Kolhapur-416212



Ref.No. S.U./Ph.D. / Phy / 2022-23 / 1129

Date :- 17 JAN 2023

To,

✓ Smt. Jadhav Aishwarya Nandkumar  
Vyankatnagar

**Sub : Provisional Admission and Guide Allotment Letter for Ph.D. Programme.**

**Sir / Madam,**

With reference to your application, I am to inform you that you are hereby provisionally admitted to Ph.D. programme in Physics in the Faculty of Science and Technology for the academic year 2022-23 under the guidance of Dr. Rahul Bharamgonda Patil, subject to fulfillment of following conditions.

- i) This Guide allotment letter is issued to you after receiving provisional approval from eligibility section and subject to compliance of necessary documents and remission of fee.
- ii) You will have to pay the yearly fee as prescribed by University. If you fail to pay the fee regularly for every year, the fine will be imposed as per University rules.
- iii) You are hereby informed to remit fee as prescribed by University and to submit eight copies of synopsis through the Research Guide to the undersigned within one month from the date of issue of this letter, failing which your admission shall stand cancelled. No separate Communication will be made in this regard.
- iv) The title of your thesis/dissertation will be communicated to you by PGBUTR Section after approval of Research and Recognition Committee.
- v) Successful completion of M. Phil / M.Phil course work / Pre Ph.D. theory course work as per UGC norms shall be pre-requisite for the submission of thesis as per provision of R.R.D. 14.2.

The UGC Regulation on minimum Standards and Procedure for award of M.Phil. and Ph.D. Degree 2016 (date 16 May 2016), amendment of 2018 dated 27th August 2018 and the rules and regulations approved by university authorities, from time to time shall be applicable for M.Phil./Ph.D. Programme.

[Important Note: This admission shall not be treated as final unless final approval to eligibility is granted. Further, this admission will be confirmed only after approval of RAC and RRC. The University reserves its right to cancel this admission.]

Yours faithfully,

  
Dr. Head, Kolhapure  
Prof. & Head,  
Department of Physics,  
Shivaji University,  
Kolhapur-416 004.

[Note:- Pay fee of Rs. 1000/-

(Provisional registration fee Rs. 500/- A.2.R.20. & Library deposit of Rs. 500/- E.2.R.1)]

Copy to:

1. Guide- Dr. Rahul Bharamgonda Patil  
Shri. Yashwantrao Patil Science Mahavidyalaya, Solankur
2. PGBUTR Section, Shivaji University, Kolhapur.
3. The Director, Barr. Balasaheb Khardekar Knowledge Resource Centre, Shivaji University, Kolhapur.





SHIVAJI UNIVERSITY, KOLHAPUR-416 004, MAHARASHTRA  
PHONE : EPABX-2609000 PGBUTR - 2609139  
FAX : +91-0231-2691533 & 2692333 website www.unishivaji.ac.in  
शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र  
दूरध्वनी (दफ्तरीय) २६०९००० वी.पी.बी. २६०९१३९, २६०९  
फॅक्स : +९१-०२३१-२६९१५३३ व २६९२३३३.  
e-mail : pgbutr@unishivaji.ac.in

Ref. No. : SU/PGBUTR/Recog/ 5912/293/224 [10371]

Date : 04 JUN 2022

To,  
**Dr. Tamboli Sikandar Hamid**  
Shri. Yashwantrao Patil Science Mahavidyalaya,  
Near Govt. Hospital, Solankur,  
Tal - Radhanagari, Dist. Kolhapur-416212

Sub : Recognition as a **Research Guide** for M.Phil., Ph.D.

Sir/Madam,


With reference to your application dated 29-NOV-21 for recognition as a Research Guide for M.Phil., Ph.D., I am directed to inform you that the University Authorities are pleased to grant recognition as mentioned below

Degree	Subject	Type of Recognition
M.Phil. & Ph.D.	Physies	Permanent

Note :-

1. This recognition is valid till you are in regular services of the University Department / Affiliated College / Institution affiliated to this University and will be eligible to guide research students as per the rules prescribed by the University authorities, from time to time.
2. If you are rejoining Department / College / Institution affiliated to this University, you will have to inform this office with necessary documents for continuation of the said recognition.
3. If you are a recognized guide of any other University, you will have to inform this office, failing which necessary action will be taken.
4. As per University Grants Commission (Minimum Standards and Procedure for Award of M.Phil. /Ph.D. Degree) Regulations, 2016, a Research Guide/Co-Guide who is Professor, at any given point of time, cannot guide more than three (3) M.Phil. and eight (8) Ph.D. scholars. An Associate Professor as Research Guide can guide upto a maximum of two (2) M.Phil. and six (6) Ph.D. scholars and an Assistant Professor as Research Guide can guide upto a maximum of one (1) M.Phil. and four (4) Ph.D.

Yours faithfully,

  
Dr. V. N. Shinde  
Ag. Registrar

Copy forwarded with compliments to:  
**The Principal,**  
Shri. Yashwantrao Patil Science Mahavidyalaya,  
Near Govt. Hospital, Solankur,  
Tal - Radhanagari, Dist. Kolhapur-416212



Ref.No. S.U./Ph.D. / phy / 2022-23 / 1130

Date : - 7 JAN 2023

To,

Shri Bagwan Sohel Iqbal

2299 C Ward Somwar Peth Kolhapur. Pin-  
416002

**Sub : Provisional Admission and Guide Allotment Letter for Ph.D. Programme.**

**Sir / Madam,**


With reference to your application, I am to inform you that you are hereby provisionally admitted to **Ph.D. programme in Physics** in the Faculty of Science and Technology for the academic year 2022-23 under the guidance of **Dr. Sikandar Hamid Tamboli**, subject to fulfillment of following conditions.

- i) This Guide allotment letter is issued to you after receiving provisional approval from eligibility section and subject to compliance of necessary documents and remission of fee.
- ii) You will have to pay the yearly fee as prescribed by University. If you fail to pay the fee regularly for every year, the fine will be imposed as per University rules.
- iii) You are hereby informed to remit fee as prescribed by University and to submit eight copies of synopsis through the Research Guide to the undersigned within one month from the date of issue of this letter, failing which your admission shall stand cancelled. No separate Communication will be made in this regard.
- iv) The title of your thesis/dissertation will be communicated to you by PGBUTR Section after approval of Research and Recognition Committee.
- v) Successful completion of M. Phil / M.Phil course work / Pre Ph.D. theory course work as per UGC norms shall be pre-requisite for the submission of thesis as per provision of R.R.D. 14.2.

The UGC Regulation on minimum Standards and Procedure for award of M.Phil. and Ph.D. Degree 2016 (date 16 May 2016), amendment of 2018 dated 27th August 2018 and the rules and regulations approved by university authorities, from time to time shall be applicable for M.Phil/Ph.D Programme.

**[Important Note: This admission shall not be treated as final unless final approval to eligibility is granted. Further, this admission will be confirmed only after approval of RAC and RRC. The University reserves its right to cancel this admission.]**

Yours faithfully,

  
Dr. K. V. Kulkarni  
Head / Director  
Prof. & Head,  
Department of Physics,  
Shivaji University,  
Kolhapur-416004.

[Note:- Pay fee of Rs. 1000/-

(Provisional registration fee Rs. 500/- A.2.R.20. & Library deposit of Rs. 500/- E.2.R.1)]

Copy to:

1. Guide- Dr. Sikandar Hamid Tamboli

Shri. Yashwantrao Patil Science Mahavidyalaya, Solankur

2. PGBUTR Section, Shivaji University, Kolhapur.

3. The Director, Barr. Balasaheb Khardekar Knowledge Resource Centre, Shivaji University, Kolhapur.



SHIVAJI UNIVERSITY, KOLHAPUR-416 004, MAHARASHTRA  
PHONE : EPABX-2609000 PGBUTR - 2609139  
FAX +91-0231-2691533 & 2692333 website: www.unishivaji.ac.in  
शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र  
दूरध्वनी : (इपीएबीएक्स) 2609000 पीजीयूटीआर 2609139, 2609  
फॅक्स : +91-0231-2691533 & 2692333  
e-mail : pgbutr@unishivaji.ac.in

Ref. No. : SU/PGBUTR/Recog/ 8822/273/209 / 10371

Date : 04 JUN 2022

To,

**Dr. Magdum Sushant Tanaji**

Shri. Yashwantrao Patil Science Mahavidyalaya,  
Near Govt. Hospital, Solankur, Tal - Radhanagari,  
Dist. Kolhapur-416212

Sub : Recognition as a **Research Guide** for Ph.D..

Sir/Madam,

With reference to your application dated 03-DEC-21 for recognition as a Research Guide for Ph.D., I am directed to inform you that the University Authorities are pleased to grant recognition as mentioned below

Degree	Subject	Type of Recognition
Ph.D.	Physical Education	Permanent

Note :-

1. This recognition is valid till you are in regular services of the University Department / Affiliated College / Institution affiliated to this University and will be eligible to guide research students as per the rules prescribed by the University authorities, from time to time.
2. If you are rejoining Department / College / Institution affiliated to this University, you will have to inform this office with necessary documents for continuation of the said recognition.
3. If you are a recognized guide of any other University, you will have to inform this office, failing which necessary action will be taken.
4. As per University Grants Commission (Minimum Standards and Procedure for Award of M.Phil. /Ph.D. Degree) Regulations, 2016, a Research Guide/Co-Guide who is Professor, at any given point of time, cannot guide more than three (3) M.Phil. and eight (8) Ph.D. scholars. An Associate Professor as Research Guide can guide upto a maximum of two (2) M.Phil. and six (6) Ph.D. scholars and an Assistant Professor as Research Guide can guide upto a maximum of one (1) M.Phil. and four (4) Ph.D.

Yours faithfully,

Dr. V. N. Shinde  
Ag. Registrar

Copy forwarded with compliments to:

**The Principal,**

Shri. Yashwantrao Patil Science Mahavidyalaya,  
Near Govt. Hospital, Solankur, Tal - Radhanagari,  
Dist. Kolhapur-416212

Date: 22 FEB 2021

Ref. No. : SU/PGBUTR/Recog/9/614

To,  
**Dr. Madhale Santosh Vasant**  
Shri. Yashawantrao Patil Science  
College, Solankur.  
Tal- Radhanagari, Dist-Kolhapur.-

Sub : Recognition as a **Research Guide** for M.Phil./ Ph.D..

Sir/Madam,

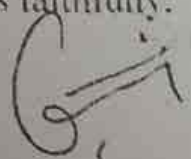
With reference to your application dated 07-Feb-2020 for recognition as a Research Guide for M.Phil./ Ph.D., I am directed to inform you that the University Authorities are pleased to grant recognition as mentioned below

Degree	Subject	Type of Recognition
M.Phil. & Ph.D.	Botany	Permanent

Note :-

1. This recognition is valid till you are in regular services of the University Department / Affiliated College / Institution affiliated to this University and will be eligible to guide research students as per the rules prescribed by the University authorities, from time to time.
2. If you are rejoining Department / College / Institution affiliated to this University, you will have to inform this office with necessary documents for continuation of the said recognition .
3. If you are a recognized guide of any other University, you will have to inform this office, failing which necessary action will be taken.
4. As per University Grants Commission (Minimum Standards and Procedure for Award of M.Phil. Ph.D. Degree) Regulations, 2016, a Research Guide/Co-Guide who is Professor, at any given point of time, cannot guide more than three (3) M.Phil. and eight (8) Ph.D. scholars. An Associate Professor as Research Guide can guide upto a maximum of two (2) M.Phil. and six (6) Ph.D. scholars and an Assistant Professor as Research Guide can guide upto a maximum of one (1) M.Phil. and four (4) Ph.D.

Yours faithfully.



Registrar

Prof. Dr. V. D. Nandavadekar

Forwarded with compliments to:



Ref. No. SU/PG-BUTR/Ph.D./O.D./695 / 3170

Date: 27 JUL 2023

To,  
Smt. Salokhe Varsharani Vasant,  
A1, Sonurli, Post. Navale,  
Tal. Bhudargad, Dist. Kolhapur.

**Sub:** Confirmation of admission to Ph.D. Degree Course.

Sir / Madam,

I am directed to inform you that you are hereby admitted to Ph.D. degree programme in Botany under the **Faculty of Science & Technology** w.e.f. 1/1/2023 under the guidance of Dr. S. V. Madhale on following conditions.

1. You will have to remit the yearly fee as mentioned below from the date of admission.
2. You will be imposed with the fine as per university rules, in case of your failure to remit prescribed fee in month of **January**, every year...

Sr. No.	Particulars	Regular Students & DRF	Form JRF/UGC Teacher Fellow/Full Time Teacher at Jr./Sr.College, Laboratory, Private & Govt.Organisation Employed Persons
i)	Tuition Fee	Rs. 7405	Rs. 7405
ii)	Library Fee	Rs. 976	Rs. 1948
iii)	Internet fees	Rs. 1948	Rs. 1948
iv)	Lab Fees (Sci & Engg.)	RS. 2926	Rs. 5845
v)	Lab. Dev. Fees	Rs. 1948	Rs. 1948
vi)	Medical Charges	Rs. 100	Rs. 100
vii)	Student Development Kalyan Nidhi	Rs. 100	Rs. 100
viii)	Accident/Medical Help Fund Scheme	Rs. 20	Rs. 20
ix)	Youth Festival	Rs. 50	Rs. 50
	Total	Rs. 15473/-	Rs.19364/-

Successful completion of M. Phil course / M.Phil. Theory course work / pre Ph.D. theory course work shall be pre-requisite for the submission of thesis as per R.R.D. 14. If you fail to pay the above fee within one month from the date of receipt of this letter, your admission will be automatically cancelled.

Yours faithfully,

Dy. Registrar

**Copy to:**

1. The Head, Department of Botany, Shivaji University, Kolhapur.
  2. Dr. S. V. Madhale, Shri. Yashwantrao Patil Science College, Solankur, Tal. Radhanagari, Dist. Kolhapur.
  3. The Director, Barr. Balasaheb Khardekar Knowledge Resource Center, Shivaji University, Kolhapur.
- Ps: The Approved title of your proposed research work is,

**AUTECOLOGICAL STUDY OF HIBISCUS TILIACEUS Linn. FROM WEST COAST OF MAHARASHTRA (INDIA)**

You should verify the title of thesis and communicate this office (within 15 days) for technical/typographical errors.

Ref. No. : SU/PGBUTR/Recog/13/622

Date: 20 FEB 2021

To,

**Dr. Sutare Manisha Sureshkumar**

Shri. Yashawantrao Patil Science

College, Solankur.

Tal- Radhanagari, Dist- Kolhapur.-

Sub : Recognition as a **Research Guide** for M.Phil./ Ph.D.,

Sir/Madam,

With reference to your application dated 07-Feb-2020 for recognition as a Research Guide for M.Phil./ Ph.D., I am directed to inform you that the University Authorities are pleased to grant recognition as mentioned below:

Degree	Subject	Type of Recognition
M.Phil. & Ph.D.	Botany	Permanent

Note :-

1. This recognition is valid till you are in regular services of the University Department / Affiliated College / Institution affiliated to this University and will be eligible to guide research students as per the rules prescribed by the University authorities, from time to time.
2. If you are rejoining Department / College / Institution affiliated to this University, you will have to inform this office with necessary documents for continuation of the said recognition.
3. If you are a recognized guide of any other University, you will have to inform this office, failing which necessary action will be taken.
4. As per University Grants Commission (Minimum Standards and Procedure for Award of M.Phil. /Ph.D. Degree) Regulations, 2016, a Research Guide/Co-Guide who is Professor, at any given point of time, cannot guide more than three (3) M.Phil. and eight (8) Ph.D. scholars. An Associate Professor as Research Guide can guide upto a maximum of two (2) M.Phil. and six (6) Ph.D. scholars and an Assistant Professor as Research Guide can guide upto a maximum of one (1) M.Phil. and four (4) Ph.D.

Yours faithfully,



Registrar

Prof. Dr. V. D. Nandavadekar

Copy forwarded with compliments to:  
**The Principal,**  
Shri. Yashawantrao Patil Science College,  
Solankur, Tal- Radhanagari,  
Dist- Kolhapur.-



Ref. No. : SU/PGBUTR/Recog/209/ 745

Date: 20 FEB 2021

To,  
**Dr. Wali Bharati Sangmesh**  
Shri. Yashawantrao Patil Science  
College, Solankur.  
Tal- Radhanagari, Dist-Kolhapur.-

Sub : Recognition as a **Research Guide** for M.Phil./ Ph.D..

Sir/Madam,


With reference to your application dated 07-Feb-2020 for recognition as a Research Guide for M.Phil./ Ph.D., I am directed to inform you that the University Authorities are pleased to grant recognition as mentioned below

Degree	Subject	Type of Recognition
M.Phil. & Ph.D.	Zoology	Permanent

Note :-

1. This recognition is valid till you are in regular services of the University Department / Affiliated College / Institution affiliated to this University and will be eligible to guide research students as per the rules prescribed by the University authorities, from time to time.
2. If you are rejoining Department / College / Institution affiliated to this University, you will have to inform this office with necessary documents for continuation of the said recognition.
3. If you are a recognized guide of any other University, you will have to inform this office, failing which necessary action will be taken.
4. As per University Grants Commission (Minimum Standards and Procedure for Award of M.Phil. /Ph.D. Degree) Regulations, 2016, a Research Guide/Co-Guide who is Professor, at any given point of time, cannot guide more than three (3) M.Phil. and eight (8) Ph.D scholars. An Associate Professor as Research Guide can guide upto a maximum of two (2) M.Phil. and six (6) Ph.D. scholars and an Assistant Professor as Research Guide can guide upto a maximum of one (1) M.Phil. and four (4) Ph.D.

Yours faithfully,

  
Registrar  
Prof. Dr. V. D. Nandavadekar

Copy forwarded with compliments to:  
**The Principal,**  
Shri. Yashawantrao Patil Science College,  
Solankur, Tal- Radhanagari,  
Dist-Kolhapur.-

 <p>Estd. 1962 "A++" Accredited by NAAC(2021) With CGPA 3.52</p>	<p align="center"><b>SHIVAJI UNIVERSITY, KOLHAPUR - 416 004, MAHARASHTRA</b></p> <p align="center">PHONE : EPABX - 2609000 PGBUTR- 0231 2609296/9139. www.unishivaji.ac.in, pgbutr@unishivaji.ac.in शिवाजी विद्यापीठ, कोल्हापूर - ४१६, ००४. महाराष्ट्र दूरध्वनी - ईपीएबीएक्स - २६०९००० दूरध्वनी पोलीसबोर्डोअंतर् विभाग - ०२३१ २६०९२९६/९१३९, www.unishivaji.ac.in, pgbutr@unishivaji.ac.in</p>	
---	---	---

SU/PG/BUTR/Ph.D/356/1724

Date: 25 MAY 2023

To,  
Smt. Agawane Pratibha Maruti,  
Department of Zoology,  
Shivaji University, Kolhapur

**Subject :- Change of the Guide.**

Sir,

With reference to above, I am directed to inform you that the Research & Recognition Committee in Zoology in its meeting held on 22/05/2023, has accorded approval to change the guide for Ph.D. as mentioned below.

Sr. No.	Name of the Student	Name of the Guide
1	Smt. Agawane Pratibha Maruti	Dr. B. S. Wali

This is for information and necessary action.

Yours faithfully,



Dy. Registrar

Copy to :

1. Dr. R. S. Dubal (Old Guide),  
Rajarshi Chhatrapati Shahu College,  
Kolhapur
2. Dr. B. S. Wali (New Guide),  
Department of Zoology,  
Shri. Yashwantrao Patil Science College,  
Solankur.
3. The Head,  
Department of Zoology,  
Shivaji University, Kolhapur.





Estd. 1962  
"A++" Accredited  
by NAAC(2021)  
With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004, MAHARASHTRA  
PHONE : EPABX - 2609000 PGBUTR- 0231 2609296/9139,  
www.unishivaji.ac.in, pgbutr@gmail.com  
शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४,  
महाराष्ट्र  
दूरध्वनी - ईपीएबीएक्स - २६०९००० दूरध्वनी पी. जी. बी. यु. टी. आर. - ०२३१ २६०९२९६/९१३९,  
www.unishivaji.ac.in, pgbutr@gmail.com



Ref. No. SU/PG-BUTR/Ph.D./O.D./329 / 12 505

Date : 07 OCT 2022

To,  
Shri. Jagatap Santosh Sambhaji,  
Department of Zoology,  
Shivaji University, Kolhapur.

Sub: Confirmation of admission to Ph.D. Degree Course.

Sir / Madam,

I am directed to inform you that you are hereby admitted to Ph.D. degree programme in **Zoology** under the **Faculty of Science & Technology** w.e.f. 1/1/2022 under the guidance of **Dr. B. S. Wali** on following conditions.

1. You will have to remit the yearly fee as mentioned below from the date of admission.
2. You will be imposed with the fine as per university rules, in case of your failure to remit prescribed fee in month of **January**, every year...

Sr. No.	Particulars	Regular Students & DRF	For JRF/UGC Teacher Fellow/Full Time Teacher at Jr./Sr.College, Laboratory, Private & Govt.Organisation Employed Persons
i)	Tuition Fee	Rs. 7405	Rs. 7405
ii)	Library Fee	Rs. 976	Rs. 1948
iii)	Internet Fees	Rs. 1948	Rs. 1948
iv)	Lab Fee: (Sci & Engg.)	RS. 2926	Rs. 5845
v)	Lab. Dev. Fees	Rs. 1948	Rs. 1948
vi)	Medical Charges	Rs. 100	Rs. 100
vii)	Student Development Kalyan Nidhi	Rs. 100	Rs. 100
viii)	Accident/Medical Help Fund Scheme	Rs. 20	Rs. 20
ix)	Youth Festival	Rs. 50	Rs. 50
	Total	Rs. 15473/-	Rs.19364/-

Successful completion of M. Phil course / M.Phil. Theory course work / pre Ph.D. theory course work shall be pre-requisite for the submission of thesis as per R.R.D. 14. If you fail to pay the above fee within one month from the date of receipt of this letter, your admission will be automatically cancelled.

Yours faithfully,

Dy. Registrar

#### Copy to:

1. The Head, Department of Zoology, Shivaji University, Kolhapur.
2. Dr. B. S. Wali Department of Zoology, Shri Yashwantrao Patil Science College, Solankur, 416 212
3. The Director, Barr. Balasaheb Khardekar Knowledge Resource Center, Shivaji University, Kolhapur.

Ps: The Approved title of your proposed research work is,

**EFFECT OF GLIRICIDIA SEPIUM AND DATURA STRAMONIUM EXTRACT ON CHORIOALLANTOIC MEMBRANE OF GALLUS GALLUS DOMESTICUS**

[Note: The student should verify the title of thesis and communicate this office (within 15 days) for technical/typographical errors, if any]



Estd. 1962

"A++" Accredited  
by NAAC(2021)  
With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004, MAHARASHTRA  
PHONE : EPABX - 2609000 PGBUTR- 0231 2609296/9139,  
www.unishivaji.ac.in, pgbutr@gmail.com  
शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४,  
महाराष्ट्र  
दूरध्वनी - ईपीएबीएक्स - २६०९००० दूरध्वनी पी. जी. बी. यु. टी. आर. - ०२३१ २६०९२९६/९१३९,  
www.unishivaji.ac.in, pgbutr@gmail.com



Ref. No. SU/PG-BUTR/Ph.D./O.D./327 /12-353

Date: 03 OCT 2022

To,  
Smt. Pawar Anupama Bharat,  
Department of Zoology,  
Shivaji University, Kolhapur.

**Sub:** Confirmation of admission to Ph.D. Degree Course.

Sir / Madam,

I am directed to inform you that you are hereby admitted to Ph.D. degree programme in **Zoology** under the **Faculty of Science & Technology** w.e.f. 1/1/2022 under the guidance of **Dr. B. S. Wali (Guide) & Dr. G. K. Sontakke (Co-Guide)** on following conditions.

1. You will have to remit the yearly fee as mentioned below from the date of admission.
2. You will be imposed with the fine as per university rules, in case of your failure to remit prescribed fee in month of January, every year...

Sr. No.	Particulars	Regular Students & DRF	Form JRF/UGC Teacher Fellow/Full Time Teacher at Jr./Sr.College., Laboratory, Private & Govt.Organisation Employed Persons
i)	Tuition Fee	Rs. 7405	Rs. 7405
ii)	Library Fee	Rs. 976	Rs. 1948
iii)	Internet fees	Rs. 1948	Rs. 1948
iv)	Lab Fees (Sci & Engg.)	RS. 2926	Rs. 5845
v)	Lab. Dev. Fees	Rs. 1948	Rs. 1948
vi)	Medical Charges	Rs. 100	Rs. 100
vii)	Student Development Kalyan Nidhi	Rs. 100	Rs. 100
viii)	Accident/Medical Help Fund Scheme	Rs. 20	Rs. 20
ix)	Youth Festival	Rs. 50	Rs. 50
	Total	Rs. 15473/-	Rs.19364/-

Successful completion of M. Phil course / M.Phil. Theory course work / pre Ph.D. theory course work shall be pre-requisite for the submission of thesis as per R.R.D. 14. If you fail to pay the above fee within one month from the date of receipt of this letter, your admission will be automatically cancelled.

Yours faithfully,

Dy. Registrar

**Copy to:**

1. The Head, Department of Zoology, Shivaji University, Kolhapur.
2. Dr. B. S. Wali (Guide), Department of Zoology, Shri Yashwantrao Patil Science College, Solankur, Tal. Radhanagari, Dist. Kolhapur
3. Dr. G. K. Sontakke (Co-Guide), Department of Zoology, Vivekanand College, Kolhapur
4. The Director, Barr. Balasaheb Khardekar Knowledge Resource Center, Shivaji University, Kolhapur.

Ps: The Approved title of your proposed research work is,

**"META ANALYSIS OF SOIL BIOTA RICHNESS ACROSS DIFFERENT LAND USE PATTERNS AND THEIR RESPONSE TO SOIL NUTRIENTS IN RADHANAGARI TAHSIL, MAHARSHTRA, INDIA"**

[Note: The student should verify the title of thesis and communicate this office (within 15 days) for technical/typographical errors, if any]





SHIVAJI UNIVERSITY, KOLHAPUR-416 004, MAHARASHTRA  
PHONE : EPABX-2609000, PGBUTR - 2609139  
FAX : 91-0231-2691533 & 2692333 website: www.unishivaji.ac.in  
शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र  
दूरध्वनी : (०२३१-२६०९०००) व पीबीयूटी २६०९१३९, २६०९  
फॅक्स : ९१-०२३१-२६९१५३३ व २६९२३३३  
e-mail : pgbutr@unishivaji.ac.in

Ref. No. : SU/PGBUTR/Recog/207/ 747

Date : 20 FEB 2021

To,

**Dr. Lagade Vishwajeet Mahadev**

Shri. Yashawantrao Patil Science

College, Solankur.

Tal- Radhanagari, Dist-Kolhapur.-

Sub : Recognition as a **Research Guide** for M.Phil./ Ph.D..

Sir/Madam,

With reference to your application dated 07-Feb-2020 for recognition as a Research Guide for M.Phil./ Ph.D., I am directed to inform you that the University Authorities are pleased to grant recognition as mentioned below

Degree	Subject	Type of Recognition
M.Phil. & Ph.D.	Zoology	Permanent

Note :-

1. This recognition is valid till you are in regular services of the University Department / Affiliated College / Institution affiliated to this University and will be eligible to guide research students as per the rules prescribed by the University authorities, from time to time.
2. If you are rejoining Department / College / Institution affiliated to this University, you will have to inform this office with necessary documents for continuation of the said recognition.
3. If you are a recognized guide of any other University, you will have to inform this office, failing which necessary action will be taken.
4. As per University Grants Commission (Minimum Standards and Procedure for Award of M.Phil./ Ph.D. Degree) Regulations, 2016, a Research Guide/Co-Guide who is Professor, at any given point of time, cannot guide more than three (3) M.Phil. and eight (8) Ph.D. scholars. An Associate Professor as Research Guide can guide upto a maximum of two (2) M.Phil. and six (6) Ph.D. scholars and an Assistant Professor as Research Guide can guide upto a maximum of one (1) M.Phil. and four (4) Ph.D.

Yours faithfully,

Registrar

Prof. Dr. V. D. Nandavadekar

Copy forwarded with compliments to:

**The Principal,**

Shri. Yashawantrao Patil Science College,

Solankur, Tal- Radhanagari,

Dist-Kolhapur.-



Estd 1962  
"A++" Accredited  
by NAAC(2021)  
With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004, MAHARASHTRA  
PHONE EPABX - 2609000 PGBUTR 0231 2609296/9139.

www.unishivaji.ac.in, pgbutr@unishivaji.ac.in  
फ़ोन २६०९०००, पृष्ठ ०२३१ २६०९२९६/९१३९

पुस्तकें, इंटरनेट, प्रयोग प्रयोग पी जी वी यू टी आर ०२३१ २६०९२९६/९१३९  
www.unishivaji.ac.in, pgbutr@unishivaji.ac.in



Ref No. SU/PG-BUTR/Ph.D./O.D./727/3971

Date: 12 SEP 2023

To,  
Shri Kamble Vishalsinha Shamrao,  
Near Primary School, Khindi Wharawade,  
Tal Radhanagari, Dist. Kolhapur. 416211.

Sub: Confirmation of admission to Ph.D. Degree Course.

Sir / Madam,

I am directed to inform you that you are hereby admitted to Ph.D. degree programme in Zoology under the Faculty of Science & Technology w.e.f. 1/1/2023 under the guidance of Dr. V. M. Lagade on following conditions

1. You will have to remit the yearly fee as mentioned below from the date of admission.
2. You will be imposed with the fine as per university rules, in case of your failure to remit prescribed fee in month of January, every year.

Sr No	Particulars	Regular Students & DRF	For JRF/UGC Teacher Fellow/Full Time Teacher at Jr/Sr College, Laboratory, Private & Govt Organisation Employed Persons
i)	Tuition Fee		
ii)	Library Fee	Rs 7405	Rs 7405
iii)	Internet fees	Rs 976	Rs 1948
iv)	Lab Fees (Sci & Engg.)	Rs 1948	Rs 1948
v)	Lab Dev. Fees	RS 2926	Rs 5845
vi)	Medical Charges	Rs 1948	Rs 1948
vii)	Student Development Kalyan Nidhi	Rs 100	Rs 100
viii)	Accident Medical Help Fund Scheme	Rs 100	Rs 100
ix)	Youth Festival	Rs 20	Rs 20
	Total	Rs 50	Rs 50
		Rs. 15473/-	Rs. 19364/-

Successful completion of M. Phil course / M.Phil. Theory course work / pre Ph.D. theory course work shall be pre-requisite for the submission of thesis as per R.R.D. 14. If you fail to pay the above fee within one month from the date of receipt of this letter, your admission will be automatically cancelled.

Yours faithfully,

Dy. Registrar

Copy to:

1. The Head, Department of Zoology, Shivaji University, Kolhapur.
2. Dr. V. M. Lagade, Department of Zoology, Shri. Yashwantrao Patil Science College, Solankur, Dist. Kolhapur. 416212.
3. The Director, Barr. Balasaheb Khardekar Knowledge Resource Center, Shivaji University, Kolhapur.

Ps: The Approved title of your proposed research work is,

**STUDIES ON ECOLOGICAL ASSESSMENT OF SACRED GROVES IN KOLHAPUR DISTRICT WITH SPECIAL EMPHASIS ON MACRO INVERTEBRATES, ANTHROPOGENIC ACTIVITIES, AND CONSERVATION STRATEGIES**





Ref. No. SU/PG-BIRTH/Ph.D./O.D./725/3963

Date: 12 SEP 2023

To:  
Smt. Chharg Rupali Rajendra,  
Darnale Ah 211, Gangapuri,  
Wai Tal. Wai, Dist. Satara.

**Sub:** Confirmation of admission to Ph.D. Degree Course.

Sir / Madam,

I am directed to inform you that you are hereby admitted to Ph.D. degree programme in **Zoology** under the **Faculty of Science & Technology** w.e.f. 1/1/2022 under the guidance of **Dr. V. M. Lagade** (Guide) & **Dr. R. B. More** (Co-Guide) on following conditions

1. You will have to remit the yearly fee as mentioned below from the date of admission.
2. You will be imposed with the fine as per university rules, in case of your failure to remit prescribed fee in month of January, every year...

Sr. No.	Particulars	Regular Students & DRF	Form JRF/UGC Teacher Fellow/Full Time Teacher at Jr./Sr.College, Laboratory, Private & Govt.Organisation Employed Persons
i)	Tuition Fee	Rs. 7405	Rs. 7405
ii)	Library Fee	Rs. 976	Rs. 1948
iii)	Internet fees	Rs. 1948	Rs. 1948
iv)	Lab Fees (Sci & Engg.)	RS. 2926	Rs. 5845
v)	Lab. Dev. Fees	Rs. 1948	Rs. 1948
vi)	Medical Charges	Rs. 100	Rs. 100
vii)	Student Development Kalyan Nidhi	Rs. 100	Rs. 100
viii)	Accident/Medical Help Fund Scheme	Rs. 20	Rs. 20
ix)	Youth Festival	Rs. 50	Rs. 50
	Total	Rs. 15473/-	Rs. 19364/-

Successful completion of M. Phil course / M.Phil. Theory course work / pre Ph.D. theory course work shall be pre-requisite for the submission of thesis as per R.R.D. 14. If you fail to pay the above fee within one month from the date of receipt of this letter, your admission will be automatically cancelled.

Yours faithfully,

Dy. Registrar

Copy to:

1. The Head, Department of Zoology, Shivaji University, Kolhapur.
2. Dr. V. M. Lagade (Guide), Department of Zoology, Shri. Yashwantrao Patil Science College, Selankur, Dist. Kolhapur, 416212
3. Dr. R. B. More (Co-Guide), Department of Zoology and Fisheries, Yashwantrao Chavan Institute of Science, Sata.
4. The Director, Barr. Balasaheb Khardekar Knowledge Resource Center, Shivaji University, Kolhapur.

The Approved title of your proposed research work is,  
**STUDIES ON FAUNAL DIVERSITY OF SACRED GROVES OF SATARA DISTRICT, MAHARASHTRA WITH REFERENCE TO VERTEBRATE FAUNA, THREATS AND CONSERVATION STRATEGIES**

You should verify the title of thesis and communicate this office (within 15 days) for technical/typographical errors, if any!



SHIVAJI UNIVERSITY, KOLHAPUR-416 004. MAHARASHTRA  
PHONE : EPABX-2609000 PGBUTR - 2609139  
FAX +91-0231-2691533 & 2692333 website: www.unishivaji.ac.in  
शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४, महाराष्ट्र  
दुरध्वनी : (ईपीएबीएक्स) 2609000 पीजीबीयुटीआर 2609139, 2609  
फॅक्स : +91-0231-2691533 o 2692333.  
e-mail : pgbutr@unishivaji.ac.in

Ref. No. : SU/PGBUTR/Recog/19/711

Date 2 FEB 2020

To,  
**Dr. Kamble Atul Dinkar**  
Shri. Yashawantrao Patil Science  
College, Solankur.  
Tal- Radhanagari, Dist-Kolhapur.-

Sub : Recognition as a **Research Guide** for M.Phil./ Ph.D..

Sir/Madam,

With reference to your application dated 10-Feb-2020 for recognition as a Research Guide for M.Phil./ Ph.D., I am directed to inform you that the University Authorities are pleased to grant recognition as mentioned below

Degree	Subject	Type of Recognition
M.Phil. & Ph.D.	Chemistry	Permanent

Note :-

1. This recognition is valid till you are in regular services of the University Department / Affiliated College / Institution affiliated to this University and will be eligible to guide research students as per the rules prescribed by the University authorities, from time to time.
2. If you are rejoining Department / College / Institution affiliated to this University, you will have to inform this office with necessary documents for continuation of the said recognition.
3. If you are a recognized guide of any other University, you will have to inform this office, failing which necessary action will be taken.
4. As per University Grants Commission (Minimum Standards and Procedure for Award of M.Phil. /Ph.D. Degree) Regulations, 2016, a Research Guide/Co-Guide who is Professor, at any given point of time, cannot guide more than three (3) M.Phil. and eight (8) Ph.D. scholars. An Associate Professor as Research Guide can guide upto a maximum of two (2) M.Phil. and six (6) Ph.D. scholars and an Assistant Professor as Research Guide can guide upto a maximum of one (1) M.Phil. and four (4) Ph.D.

Yours faithfully,

Registrar

Prof. Dr. V. D. Nandavadekar

Copy forwarded with compliments to:  
The Principal,  
Shri. Yashawantrao Patil Science  
College, Solankur.  
Tal- Radhanagari, Dist-Kolhapur.-







Estd. 1962

"A++" Accredited  
by NAAC(2021)  
With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004, MAHARASHTRA  
PHONE : EPABX - 2609000 PGBUTR - 0231 2609296/9139,  
www.unishivaji.ac.in, pgbutr@gmail.com  
शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४,  
पत्राचार  
दूरध्वनी : २६०९००० दूरध्वनी पी. जी. बी. यु. टी. आर. - ०२३१ २६०९२९६/९१३९,  
www.unishivaji.ac.in, pgbutr@gmail.com



Ref. No. SU/PG-BUTR/Ph.D./O.D./479/19657

Date : 13 DEC 2021

To,

Smt. Kamble Shital Mohan,

A/P Rethare Budruk,

Tal. Karad, Dist. Satara,

**Sub:** Confirmation of admission to Ph.D. Degree Course.



Sir / Madam,

I am directed to inform you that you are hereby admitted to Ph.D. degree programme in Chemistry under the Faculty of Science & Technology w.e.f. 1/7/2021 under the guidance of Dr. A. D. Kamble (Guide) & Dr. V. R. More (Co-Guide) on following conditions.

1. You will have to remit the yearly fee as mentioned below from the date of admission.

2. You will be imposed with the fine as per university rules, in case of your failure to remit prescribed fee in month of July, every year...

Sr. No.	Particulars	Regular Students & DRF	Form JRF/UGC Teacher Fellow/Full Time Teacher at Jr./Sr.College, Laboratory, Private & Govt.Organisation Employed Persons
i)	Tuition Fee	Rs. 7405	Rs. 7405
ii)	Library Fee	Rs. 976	Rs. 1948
iii)	Internet fees	Rs. 1948	Rs. 1948
iv)	Lab Fees (Sci & Engg.)	RS. 2926	Rs. 5845
v)	Lab. Dev. Fees	Rs. 1948	Rs. 1948
vi)	Medical Charges	Rs. 100	Rs. 100
vii)	Student Development Kalyan Nidhi	Rs. 100	Rs. 100
viii)	Accident Medical Help Fund Scheme	Rs. 20	Rs. 20
ix)	Youth Festival	Rs. 50	Rs. 50
	Total	Rs. 15473/-	Rs.19364/-

Successful completion of M. Phil course / M.Phil. Theory course work / pre Ph.D. theory course work shall be pre-requisite for the submission of thesis as per R.R.D. 14. If you fail to pay the above fee within one month from the date of receipt of this letter, your admission will be automatically cancelled.

Yours faithfully,

*(Signature)*  
Dr. Registrar

Copy to:

1. The Head, Department of Chemistry, Shivaji University, Kolhapur.
2. Dr. A. D. Kamble, Department of Chemistry, Shri Yashwantrao Patil Science College, Solapur, Tal. Radhanagari, Dist. Kolhapur
3. Dr. V. R. More (Co-Guide), The New College, Kolhapur
4. The Director, Balasaheb Khardekar Knowledge Resource Center, Shivaji University, Kolhapur.

Ps. The Approved title of your proposed research work is,

**FUNCTIONALIZATION OF GRAPHENE OXIDE USING REDOX ACTIVE ORGANIC MOLECULES FOR ENERGY STORAGE APPLICATIONS**

Note: The student should verify the title of thesis and communicate this office (within 15 days) for technical/typographical errors, if any

2022.12.21.12.23



Estd. 1962

"A++" Accredited  
by NAAC(2021)  
With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004, MAHARASHTRA  
PHONE EPABX - 2609000 PGBUTR 0211 2609296/9139.  
www.unishivaji.ac.in, pgbutor@unishivaji.ac.in  
शिवाजी विद्यापीठ, कोल्हापूर - ४१६ ००४  
पदवी - पदव्यवस्थापक - प्रशासन - प्रमुख पी जी यू टी ऑफर, एम २६०९२९६/९१३९  
www.unishivaji.ac.in, pgbutor@unishivaji.ac.in

R5230383



Ref. No. SU/PG-BUTR/PN.D./O.D./584 / 2041

Date: 12 JUN 2023

To,  
Smt. Kamble Deepali Sachin,  
Matruvihar, Plot No. 3, Behind Pratik Hotel,  
Pedgaon Road, Vaduj, Tal. Khatav,  
Dist. Satara. 415506.



**Sub:** Confirmation of admission to Ph.D. Degree Course.

Sir / Madam,

I am directed to inform you that you are hereby admitted to Ph.D. degree programme in Chemistry under the Faculty of Science & Technology w.e.f. 1/1/2023 under the guidance of Dr. A. D. Kamble (Guide) Dr. S. M. Khetre (Co-Guide) on following conditions.

1. You will have to remit the yearly fee as mentioned below from the date of admission.
2. You will be imposed with the fine as per university rules, in case of your failure to remit prescribed fee in month of January, every year...

Sr. No.	Particulars	Regular Students & DRF	Form JRF/UGC Teacher Fellow/Full Time Teacher at Jr. Sr. College, Laboratory, Private & Govt Organisation Employed Persons
i)	Tuition Fee	Rs. 7405	Rs. 7405
ii)	Library Fee	Rs. 976	Rs. 1948
iii)	Internet fees	Rs. 1948	Rs. 1948
iv)	Lab Fees (Sci & Engg.)	Rs. 2926	Rs. 5845
v)	Lab. Dev. Fees	Rs. 1948	Rs. 1948
vi)	Medical Charges	Rs. 100	Rs. 100
vii)	Student Development Kalyan Nidhi	Rs. 100	Rs. 100
viii)	Accident/Medical Help Fund Scheme	Rs. 20	Rs. 20
ix)	Youth Festival	Rs. 50	Rs. 50
	Total	Rs. 15473/-	Rs. 19364/-

Successful completion of M. Phil course / M.Phil. Theory course work / pre Ph.D. theory course work shall be pre-requisite for the submission of thesis as per R.R.D. 14. If you fail to pay the above fee within one month from the date of receipt of this letter, your admission will be automatically cancelled.

Yours faithfully,

Dy. Registrar

Copy to:

1. The Head, Department of Chemistry, Shivaji University, Kolhapur.
2. Dr. A. D. Kamble (Guide), Department of Chemistry, Shri Yashwantrao Patil Science College, Solankur, Tal. Radhanagari, Dist. Kolhapur
3. Dr. S. M. Khetre (Co-Guide), Department of Chemistry, Dahiwadi College, Dahiwadi, Tal. Man, Dist. Satara
4. The Director, Barr. Balasaheb Khardekar Knowledge Resource Center, Shivaji University, Kolhapur

The Approved title of your proposed research work is,  
**SYNTHESIS AND CHARACTERIZATION OF BIODEGRADABLE CONDUCTING POLYMER BASED HYDROGELS FOR DRUG DELIVERY APPLICATIONS**  
The student should verify the title of thesis and communicate this office (within 15 days) for technical/typographical errors, if any.





Estd. 1962  
"A++" Accredited  
by NAAC(2021)  
With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004, MAHARASHTRA  
PHONE : LPADK - 2609000 PDBUTR- 0281 2609206/9139,  
www.unishivaji.ac.in, mahutr@unishivaji.ac.in  
विभागीय निदेशिका, कोल्हापूर - ४१६ ००४,  
www.unishivaji.ac.in, mahutr@unishivaji.ac.in



Ref. No. SU/PG-BUTR/Ph.D./O.D./520 /1464

To,  
**Smt. Patil Amruta Dileep,**  
A/P Pandewadi Main Road,  
Tal. Radhanagari, Dist. Kolhapur.



Date: 08 MAY 2023

**Sub: Confirmation of admission to Ph.D. Degree Course.**

Sir / Madam,

I am directed to inform you that you are hereby admitted to Ph.D. degree programme in Chemistry under the Faculty of Science & Technology w.e.f. 1/1/2023 under the guidance of **Dr. A. D. Kamble** (Guide) & **Dr. Arjun Kumbhar** (Co-Guide) on following conditions.

1. You will have to remit the yearly fee as mentioned below from the date of admission.
2. You will be imposed with the fine as per university rules, in case of your failure to remit prescribed fee in month of January, every year...

Sr. No.	Particulars	Regular Students & DRF	Form JRF/UGC Teacher Fellow/Full Time Teacher at Jr./Sr.College, Laboratory, Private & Govt.Organisation Employed Persons
i)	Tuition Fee	Rs. 7405	Rs. 7405
ii)	Library Fee	Rs. 976	Rs. 1948
iii)	Internet fees	Rs. 1948	Rs. 1948
iv)	Lab Fees (Sci & Engg.)	RS. 2926	Rs. 5845
v)	Lab. Dev. Fees	Rs. 1948	Rs. 1948
vi)	Medical Charges	Rs. 100	Rs. 100
vii)	Student Development Kalyan Nidhi	Rs. 100	Rs. 100
viii)	Accident/Medical Help Fund Scheme	Rs. 20	Rs. 20
ix)	Youth Festival	Rs. 50	Rs. 50
	Total	Rs. 15473/-	Rs.19364/-

Successful completion of M. Phil course / M.Phil. Theory course work / pre Ph.D. theory course work shall be pre-requisite for the submission of thesis as per R.R.D. 14. If you fail to pay the above fee within one month from the date of receipt of this letter, your admission will be automatically cancelled.

Yours faithfully,

Dy. Registrar

Copy to:

1. The Head, Department of Chemistry, Shivaji University, Kolhapur.
2. Dr. A. D. Kamble (Guide), Department of Chemistry, Shri. Yashwantrao Patil Science College, Solankur, Tal. Radhanagari, Dist. Kolhapur
3. Dr. Arjun Kumbhar (Co-Guide), Department of Chemistry, Vivekanand College, Kolhapur
4. The Director, Barr. Balasaheb Khardekar Knowledge Resource Center, Shivaji University, Kolhapur.

Ps: The Approved title of your proposed research work is,

**SYNTHESIS AND CHARACTERIZATION OF METAL PYROPHOSPHATE-MXene COMPOSITE FOR SUPERCAPACITOR APPLICATION**

(Note: The student should verify the title of thesis and communicate this office (within 15 days) for technical/typographical errors, if any)





Estd. 1962  
"A++" Accredited  
by NAAC(2021)  
With CGPA 3.52

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004, MAHARASHTRA  
PHONE : EPABX - 2609000 PGBUTR- 0231 2609296/9139,  
www.unishivaji.ac.in, pgbutr@unishivaji.ac.in  
शिवजी विद्यापीठ, कोल्हापूर - ४१६ ००४.  
www.unishivaji.ac.in, pgbutr@unishivaji.ac.in



Ref. No. SU/PG-BUTR/Ph.D./O.D./509 /1425

Date : 04 MAY 2023

To,  
Shri. Lad Sumit Sanjay,  
Department of Chemistry,  
Balasaheb Desai College, Patan,  
Tal. Patan, Dist. Satara.



Sub: Confirmation of admission to Ph.D. Degree Course.

Sir / Madam,

I am directed to inform you that you are hereby admitted to Ph.D. degree programme in Chemistry under the Faculty of Science & Technology w.e.f. 1/7/2022 under the guidance of Dr. A. D. Kamble (Guide), Dr. V. A. Kalantre (Co-Guide) on following conditions.

1. You will have to remit the yearly fee as mentioned below from the date of admission.
2. You will be imposed with the fine as per university rules, in case of your failure to remit prescribed fee in month of July, every year...

Sr. No.	Particulars	Regular Students & DRF	Form JRF/UGC Teacher Fellow/Full Time Teacher at Jr./Sr.College, Laboratory, Private & Govt.Organisation Employed Persons
i)	Tuition Fee	Rs. 7405	Rs. 7405
ii)	Library Fee	Rs. 976	Rs. 1948
iii)	Internet fees	Rs. 1948	Rs. 1948
iv)	Lab Fees (Sci & Engg.)	RS. 2926	Rs. 5845
v)	Lab. Dev. Fees	Rs. 1948	Rs. 1948
vi)	Medical Charges	Rs. 100	Rs. 100
vii)	Student Development Kalyan Nidhi	Rs. 100	Rs. 100
viii)	Accident/Medical Help Fund Scheme	Rs. 20	Rs. 20
ix)	Youth Festival	Rs. 50	Rs. 50
	Total	Rs. 15473/-	Rs.19364/-

Successful completion of M. Phil course / M.Phil. Theory course work / pre Ph.D. theory course work shall be pre-requisite for the submission of thesis as per R.R.D. 14. If you fail to pay the above fee within one month from the date of receipt of this letter, your admission will be automatically cancelled.

Yours faithfully,

Dr. Registrar

Copy to:

1. The Head, Department of Chemistry, Shivaji University, Kolhapur.
2. Dr. A. D. Kamble (Guide), Department of Chemistry, Shri Yashwantrao Patil Science College, Solankur, Tal. Radhanagari, Dist. Kolhapur
3. Dr. V. A. Kalantre (Co-Guide), Department of Chemistry, Balasaheb Desai College, Patan, Tal. Patan, Dist. Satara
4. The Director, Barr. Balasaheb Khardekar Knowledge Resource Center, Shivaji University, Kolhapur.

Ps: The Approved title of your proposed research work is,

SILVER DECORATED LANTHANUM SUBSTITUTED MIXED TRANSITION METAL COBALTATE -  
REDUCED GRAPHENE OXIDE NANOCOMPOSITE FOR SUPERCAPACITORS

[Note: The student should verify the title of thesis and communicate this office (within 15 days) for technical/typographical errors, if any]





**SHIVAJI UNIVERSITY, KOLHAPUR - 416 004 MAHARASHTRA**

Phone : EPABX-2609000 PGBUTR-0231-2609139/2609296

Fax : 0091-231-2693294 website : [www.unishivaji.ac.in](http://www.unishivaji.ac.in)

शिवाजी विद्यापीठ, कोल्हापूर ४१६ ००४, महाराष्ट्र

दूरध्वनी : (ईपीएबीएक्स) २६०९००० पी.जी.सी.यु.टी.आर. - ०२३१-२६०९१३९/२६०९२९६

फॅक्स : ००९१-२३१- २६९३२९४ E-Mail : [pgbutr@unishivaji.ac.in](mailto:pgbutr@unishivaji.ac.in)

Ref.No. : S.U./P.G.B.U.T.R./Ph.D./5904

Date : 12 JUN 2019

To,

**Shri. Prakash Shankar Pawar**

A/P Dapaka, Tal. Mukhed,

Dist. Nanded. 431 715

Sub : Confirmation of admission to Ph.D. Degree Course.

Sir/Madam,

With reference to your application I am directed to inform you that you are hereby admitted to Ph.D. degree programme in Chemistry in the Faculty of Science & Technology w.e.f. 1/7/2018 under the guidance of Dr. K. K. Patil, (Guide) on the following conditions.

- lxv. You will have to pay the yearly fees as mentioned below from the date of admission.
- lxvi. If you fail to pay the fees in month of July of every year the fine will be imposed as per University rules.

Sr. No.	Particular	Regular Students & DRF	Form JRF/UGC Teacher Fellow/Full Time Teacher at Jr./Sr. College, Laboratory, Private & Govt. Organisation Employed Persons
i)	Tution Fee	7405	7405
ii)	Library Fees	976	1948
iii)	Internet Fees	1948	1948
iv)	Lab Fees (Sci & Engg.)	2926	5845
v)	Lab. Dev. Fees	1948	1948
vi)	Medical Charges	195	195
Total Fees		16374	22214

Successful completion of M.Phil. Course/M.Phil theory course work / pre Ph.D. theory course work shall be pre-requisite for the submission of thesis as per R.R.D.14. If you fail to pay the above fees within one month from the receipt of this letter, your admission will be automatically cancelled.

Yours faithfully,

Dy. Registrar

Copy to :

- 1 Dr. K. K. Patil, (Guide), Department of Chemistry, Rajaram College, Kolhapur.
- 2 The Director , Barr. Balasaheb Khardekar knowledge Resource Centre, Shivaji University, Kolhapur.
- 3 The Head, Department of Chemistry, Shivaji University, Kolhapur.

Ps. The Approved title of your proposed research work is,

**DESIGN AND FABRICATION OF INORGANIC-ORGANIC COMPOSITES FOR PHOTOVOLTAIC DEVICES**



Estd. 1962  
NAAC 'A' Grade

SHIVAJI UNIVERSITY, KOLHAPUR - 416 004 MAHARASHTRA

Phone : EPABX-2609000 PGBUTR-0231-260913/2609296

Fax : 0091-231-2693294 website : [www.unishivaji.ac.in](http://www.unishivaji.ac.in)

शिवाजी विद्यापीठ, कोल्हापूर ४१६ ००४, महाराष्ट्र

दूरध्वनी : (ईपीएबीएक्स) २६०९००० पी जी बी यू टी आर - ०२३१-२६०९१३/२६०९२९६

फॅक्स : ००९१-२३१-२६९३२९४ E-Mail : [pgbutr@unishivaji.ac.in](mailto:pgbutr@unishivaji.ac.in)

Ref.No. : S.U./P.G.B.U.T.R./Ph.D./624-

Date 15 Feb 2020

To,

Shri. Prakash Shankar Pawar  
A/P Dapaka, Tal. Mukhed,  
Dist. Nanded. 431 715

Subject : Change of the Guide.

Ref : Your letter dated 19/08/2019

Sir/Madam,

With reference to above, I am directed to inform you that the university authorities have accorded approval to change the guide for Ph.D. as mentioned below.

Sr. No.	Name of the student	Name of the New Guide
1.	Shri. Prakash Shankar Pawar	Dr. S. D. Delekar

This is for information and necessary action.

Yours faithfully,

Dy. Registrar

Copy to :

1. Dr. K. K. Patil, (Old Guide)  
Department of Chemistry,  
Rajaram College, Kolhapur.
2. Dr. S. D. Delekar, (New Guide)  
Department of Chemistry,  
Shivaji University, Kolhapur.
3. Head, Department of Chemistry,  
Shivaji University, Kolhapur.



### 3.2.2

#### **Number of workshops/seminars/conferences including programs conducted on Research Methodology, Intellectual Property Rights (IPR) and entrepreneurship during the last five years**

Year	2022-23	2021-22	2020-21	2019-20	2018-19
Number	03	02	02	01	02

Year	Name of the workshop/ seminar/ conference	Number of Participants	Date
2022-23	5th International eConference ICFMET-2023 (Online)	90	05 & 06 May 2023
2022-23	Intellectual Property Rights (IPR) & Patents and Design filing	62	09 May 2023
2022-23	Hands-on training of Mushroom cultivation and post-harvest processing	161	04 Nov. 2022
2021-22	4th International eConference ICF-CEET (Online)	84	19 & 20 Nov. 2021
2021-22	One day webinar on Handling of House hold chemicals-Its advantages and disadvantages	46	30 Aug. 2021
2020-21	3rd International eConference ICF-MET (Online)	52	27 & 28 Nov. 2020
2020-21	International Conference on Conservation of Wild Taxa: Present Scenario	175	04 Feb. 2021
2019-20	Horticulture - an agribusiness - Workshop	133	20 Dec. 2019
2018-19	Basic Sciences and Research - Workshop	100	24 Dec. 2018
2018-19	2nd International Conference - ICMES-2018	300	07 & 08 Dec. 2018



II GYAN SEVATYAG II

Shri Vyanknath Shikshan Prasarak Mandal's

**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR**

Taluka: Radhanagari, District: Kolhapur (Maharashtra, India). Pincode: 416212

Email: ypsvnsolankur@gmail.com / ypsvns.436.cl@gmail.com

Website: www.ypsc.ac.in

Affiliated to Shivaji University Kolhapur, MS, India | Accredited by NAAC with 'B' Grade (CGPA=2.14)

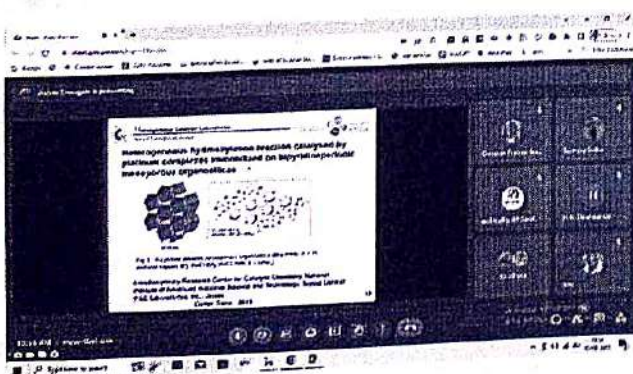
**Shri. A. V. Patil**  
Secretary

**Shri. R. V. Patil**  
Chairman

## Activity Report – Conference

(Academic Year: 2022-23)

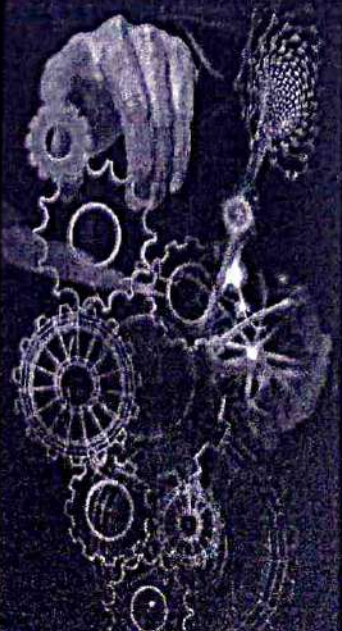
Name of the activity	-	International eConference ICFMET-2023
Organized by	-	Department of Physics, YPSC Solankur
Date of Activity	-	5 & 6 May 2023
Time	-	10 am onwards
Venue	-	online
Total Number of participants	-	60
Name of Faculty	-	Dr RB Patil
Objective	-	e-conference
Outcome	-	recent advances in materials engineering & nanotechnology





# 5<sup>th</sup> International e-Conference on Frontiers in Materials Engineering & nanoTechnology [ IC-FMET-2023 ]

(May 05 - 06, 2023)



Organized by



**Shri Yashwantrao Patil  
Science College, Solankur**

Technical Sponsor



Convener  
**Dr. Rahul B. Patil**

For further details, please log on  
E-mail: [icfmet2023@gmail.com](mailto:icfmet2023@gmail.com)  
Website: [www.ypsc.ac.in](http://www.ypsc.ac.in)



## Organizing Committee

**Chairman**  
**Dr. Chougale G. G.**  
Principal

**Organizing Secretary**  
**Dr. Avitaj A. Jatratkar**

**Co-ordinator**  
**Dr. Sikandar H. Tamboli**

And all the students, teaching and non-teaching staff of  
YPS, Solankur

## Call for Abstracts

We cordially invite to submit the abstracts of original work in electronic format as per template provided on the website. Those willing for poster presentation should prepare the HD jpg image of the poster (preferably using Coreldraw software) and those interested for oral presentation should prepare the video file (5 minutes) & ppt as per instructions. Five best posters and orals will be honored.

## Earlier Publications

- 1) ICMES - 2018 : Materials Today Proceedings [vol.23/P2(2020)]  
Scopus & WOS indexed journal
- 2) ICFMET - 2020 : Materials Today Proceedings [vol.47/P16(2021)]  
Scopus & WOS indexed journal
- 3) ICFMET - 2020 : International Journal of Nanotechnology  
[vol.18/N.11-12(2021)] Scopus & WOS indexed journal
- 4) ICCEET - 2021 : Journal of Active & Passive Electronic Devices  
[vol.16/N.2(2022)] WOS indexed journal
- 5) ICCEET - 2021 : Journal of Advanced Applied Scientific Research  
[vol.4/N.1(2022)] WOS indexed journal

## Important Dates:

Last date for abstract submission: April 05, 2023  
Last date for Registration: April 25, 2023

The conference souvenir (only abstracts) will  
be published and e-copy will be shared.

(Sorry, NO registrations after last date)

## Patrons

**Hon. A. Y. Patil**  
(Former, SVSPM, Solankur)

**Hon. R. Y. Patil**  
(Chairman, SVSPM, Solankur)

## About YPSC, Solankur

The institute is situated at the heart of Western Ghats, one of the 18 global biodiversity hotspots. It is the only science college in tehsil. Being the mountainous rural area, to meet the barrier in higher education and to remove the inequities in access to education amongst various socials, the foundation of Sanstha pillared under the competent guidance of Hon. Shri. A. Y. Patil.

Shri Vyanknath Shikshan Prasarak Mandal, Solankur was established in 1996. Starting with primary, highschool, junior college of arts & science; the senior college started in the year 2009 with the mission to sensitize the students to ethical, social and cultural values to make an enlightened nation and strive for mass welfare and happiness through spread of education. The college is accredited by NAAC.

It has organized several national and international conferences. The college is committed to meet the educational and societal needs of the hilly rural area which will help to build up the humane nation under the skilled leadership of Chairman Hon. R. Y. Patil.

The full length peer reviewed papers will be published in  
Web of Science / Scopus indexed journals.

## Mode of Payment

After acceptance of abstract, you will receive the abstract number. Then payment has to be done as per the details given by email. Further email the registration form and payment details to - [regifmet2023@gmail.com](mailto:regifmet2023@gmail.com)

The conference certificate will be sent by Post.

## Registration Fee:

Authors	Registration Fees
Indian authors (working in India)	Rs. 1500 /-
Foreign author (Working abroad)	\$ 50 /-





HIGUAN SEVA YAGRI

Shri Vyanknath Shikshan Prasarak Mandal's

**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR**

Taluka: Rudhanagari, District: Kolhapur (Maharashtra, India). Pincode: 416212

Email: [ypscsolankur@gmail.com](mailto:ypscsolankur@gmail.com) / [ypscsolankur436@gmail.com](mailto:ypscsolankur436@gmail.com)

Website: [www.ypsc.ac.in](http://www.ypsc.ac.in)

Affiliated to Shriyaji University, Kolhapur, MS, India | Accredited by NAAC with 'B' Grade (CGPA-2.14)



**Shri. A. Y. Patil**  
Secretary

**Shri. R. Y. Patil**  
President

## Activity Report

(Academic Year: 2022 -2023)

Name of the activity	- Online Workshop on "Intellectual Property Rights (IPR) & Patents and Design filing"
Name of the organizing department/ support service.	- Department of Botany Y. P. S. College, Solankur.
Organized in collaboration with	- RGNIIPM, Nagpur.
Name of the Resource person(s)	- 1. Dr. Bharat N. Suryawanshi, Assistant. Controller of Patents & Designs, RGNIIPM Nagpur.
Date	- 09/05/2023
Venue	- Online on Webex platform. <a href="https://rgniipmiprtraininginstitute.webex.com/rgniipmiprtraininginstitute/j.php?MTID=m647840e4f5fa27da6afdc17a08a01d96">https://rgniipmiprtraininginstitute.webex.com/rgniipmiprtraininginstitute/j.php?MTID=m647840e4f5fa27da6afdc17a08a01d96</a>
Number of beneficiaries	- 62
Aim	- Introduction to Intellectual Property Rights (IPR) & Patents and Design filing
Outcome	- Increased awareness of IPR and its importance: Participants will gain a better understanding of what IPR is, why it is important, and how it can be used to protect their inventions and creations.







॥ GYAN SEVATVAG ॥

Shri Vyanknath Shikshan Prasarak Mandal's

## SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR

Taluka: Radhanagari, District: Kolhapur (Maharashtra, India). Pincode: 416212

Email: [xymsolankur@gmail.com](mailto:xymsolankur@gmail.com) / [xymsolankur1364@gmail.com](mailto:xymsolankur1364@gmail.com)

Website: [www.xyms.ac.in](http://www.xyms.ac.in)

Affiliated to Shivaji University Kolhapur, MS, India | Accredited by NAAC with 'B' Grade (CGPA: 2.14)

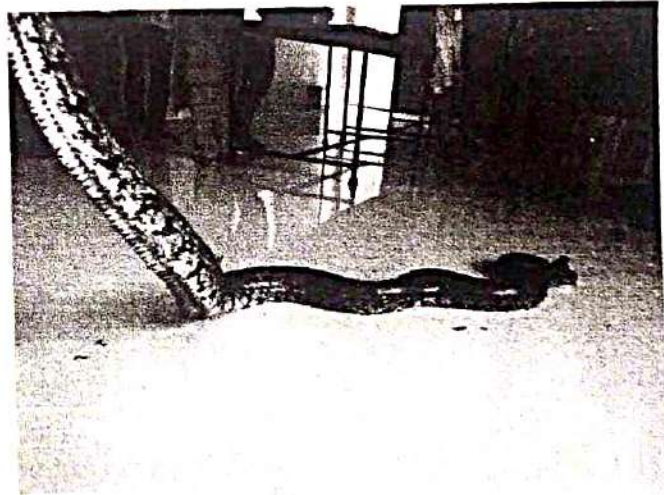
Shri. A. Y. Patil  
Secretary

Shri. R. Y. Patil  
Chairman



### Workshop on Identification of Poisonous and Non-poisonous Snakes

The Department of Zoology has organized one day workshop for college students on Identification of Poisonous and Non-poisonous snake on 04/12/2022. Mr. Rushikesh Sutar was expert for this workshop. He has brought Indian Rock python for demonstration the students. He has explained the various external features of Non-poisonous snakes and how this features are differ from poisonous snakes. Total 22 students were participated in this workshop.



  
Head  
Department of Zoology  
Shri. Yashwantrao Patil Science  
College, Solankur.







Shri. Vyanknath Shikshan Prasarak Mandal's

# SHRI. YASHWANTARAO PATIL SCIENCE COLLEGE, SOLANKUR

Taluka: Radhanagari, District: Kolhapur

Affiliated to Shivaji University Kolhapur, MS, India | Accredited by NAAC with 'B' Grade (CGPA=2.14)

In association with

**Rajiv Gandhi National Institute of Intellectual Property Management (RGNIIPM)**

Government of India, Nagpur

(Under National Intellectual Property Awareness Mission)

Online Workshop on

## "INTELLECTUAL PROPERTY RIGHTS (IPR) & PATENTS AND DESIGN FILING"

(No fees to attend the program)

**Speaker**

**Dr. Bharat N. Suryawanshi**

Assistant. Controller of Patents &  
Designs,

RGNIIPM Nagpur



Date & Time of Programme:

Registration Link: <https://forms.gle/s9pGK51M2iGCtXkt6>

WhatsApp Group link: <https://chat.whatsapp.com/IMMFsTnf0cz1IvE8Q7ya6t>

No fees to attend the program- E- certificates will be given to all participants who attended the programme

### ORGANIZERS

**Dr. S. P. Dorugade**

Coordinator,  
IPR Workshop,

**Dr. S. V. Madhale**

IQAC Coordinator and  
Head, Department of Botany  
YPSC, Solankur

**Dr. G. G. Chougale**

I/C Principal,  
YPSC, Solankur





# Shri Yashwantrao Patil Science College, Solankur

Tal. Radhanagari, Dist. Kolhapur - 416212

Email: ypmsolankur@gmail.com / ypms436.el@unishivaji.ac.in

Website: www.ypsc.ac.in

Accredited by NAAC with 'B' grade (CGPA 2.14) | Affiliated to Shivaji University, Kolhapur

Dr. S. A. Manjare  
Principal

Shri. A. Y. Patil  
Secretary

Shri. R. Y. Patil  
President

## Activity Report

(Academic Year: 2022-23)

Name of the activity	-	STATE LEVEL WORKSHOP AND HANDS-ON TRAINING OF MUSHROOM CULTIVATION AND POST-HARVEST PROCESSING
Name of the organizing department/ support service	-	Botany
Organized in collaboration with	-	
Name of the Resource person(s)	-	Mr. Parimal Udgave
Date	-	04/11/2022
Venue	-	Yashwant Hall, YPSC, Solankur
Number of beneficiaries	-	161
Aim	-	The aim of the workshop is to provide an introduction to mushroom cultivation, with a particular focus on small-scale and hobby growers. The workshop will cover topics such as substrate preparation, inoculation, incubation, and fruiting. There will be plenty of opportunity for participants to ask questions and get advice from the expert instructors.
Outcome	-	The workshop was a success and everyone learned a lot about mushroom cultivation.

Head  
Department of Botany  
Shri Yashwantrao Patil Science College  
Solankur, Tal. Radhanagari



HIGYAN SEVA TYAGI

Shri Vyanknath Shikshan Prasarak Mandal's

**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR**

Taluka: Radhanagari, District: Kolhapur (Maharashtra, India). Pincode: 416212

Email: [spxmsolankur@gmail.com](mailto:spxmsolankur@gmail.com) - [spxms4364@gmail.com](mailto:spxms4364@gmail.com)

Website: [www.spx.ac.in](http://www.spx.ac.in)

Affiliated to Shivaji University, Kolhapur, MS, India | Accredited by NAAC with 'B' Grade (CGPA: 2.14)

Shri. A. Y. Patil  
Secretary

Shri. R. Y. Patil  
Chairman

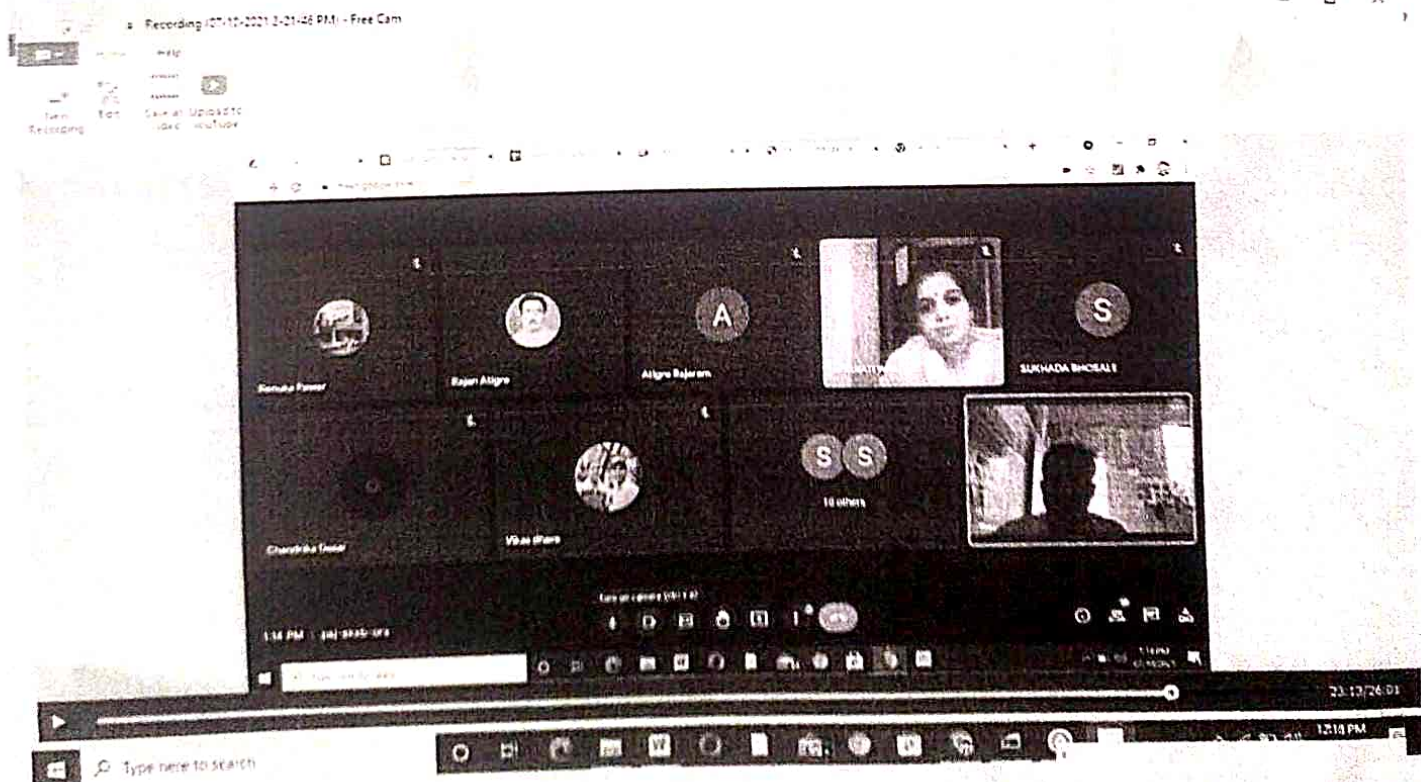



## Webinar conducted by Department of Zoology

### Academic Year 2021-22

On the occasion of Wildlife Week, Department of Zoology has conducted the National Level Webinar on "Importance of Wildlife and Strategies for its conservation" during celebration of World Wildlife Week on 6-7 October, 2021. The first Resource person for webinar was **Dr. Suryakant Maske**, Assistant Professor, Department of Zoology, Shri Vijaysinha Yadav College Path Vadgaon. Sir has delivered talk on Biodiversity of Western Ghats and its threats. The second Resource person was Dr. Lagade V. M. topic was Wildlife, its threats and conservative measures with reference to Radhanagari Wildlife Sanctuary

### Google Links of Webinar



  
**Head**  
Department of Zoology  
Shri. Yashwantrao Patil Science  
College, Solankur.







HIGHER SECONDARY

Shri Vyanknath Shikshan Prasarak Mandal's

# SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR

Taluka: Radhanagari, District: Kolhapur (Maharashtra, India), Pincode: 416212

Phone: 020-26666666, 020-26666667, 020-26666668, 020-26666669

Website: www.yashwantrao.org

Affiliated to Shri Chhatrapati Shivaji Maharaj Vastu Sangrahalaya, Mumbai

Shri. A. Y. Patil

Secretary

Shri. R. V. Patil

Chairman

## Webinar conducted by Department of Zoology

### Academic Year 2020-21

Department of Zoology has conducted the Online State level webinar on **"Changing scenario and Career Development"** on 17<sup>th</sup> July, 2021. For this event the Resources person was **Dr. Rachna Ingavale**, Assistant Professor, Department of Environment management, CSIBER Kolhapur. Dr. Rachana Madam has given various opportunities in governmental and non-governmental institutes for students after graduation.

**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE SOLANKUR**  
TALUKA: RADHANAGARI, DISTRICT: KOLHAPUR

Department of Zoology  
Organized,  
**State Level Webinar**

Association with "Chhatrapati Shivaji Institute Of Business, Education and Research" (CSIBER) Kolhapur

**Topic** → "Changing scenario and Career Development"

**Date** → 17<sup>th</sup> July 2021  
**Time** → 4:00 pm to 6:00 pm

**Points to be covered** →

- How to choose your career
- Changing skills requirements
- Preparation for future career
- Future scope after Science Graduation

**Resource Person** → Assistant Professor, Department of Environment Management, CSIBER, Kolhapur

**Registration** → Free

**Hosts** → Shri. A. Y. Patil, Secretary  
Shri. R. V. Patil, Chairman

**Guests** → Dr. R. V. Ingavale, Assistant Professor, CSIBER, Kolhapur  
Dr. R. V. Ingavale, Assistant Professor, CSIBER, Kolhapur

**Guests** → Dr. R. V. Ingavale, Assistant Professor, CSIBER, Kolhapur  
Dr. R. V. Ingavale, Assistant Professor, CSIBER, Kolhapur

Invitation letter of the event

Head  
Department of Zoology  
Shri. Yashwantrao Patil Science  
College, Solankur.






SHRI YANKNATH SHIKSHAN PRASARAK MANDAL'S  
**SHRI YASHWANTRAO PATIL  
SCIENCE COLLEGE, SOLANKUR**  
(Affiliated to Shivaji University Kolhapur, MS, India; Accredited by NAAC with 'B' Grade (CGPA=2.14))

**DEPARTMENT OF BOTANY**  
*is organizing*


State Level Workshop and Hands on  
Training of  
**MUSHROOM CULTIVATION  
AND POST HARVEST  
PROCESSING**  
Date: 4<sup>th</sup> November, 2022

**RESOURCE PERSON**  
Mr. Parimal Ramesh Udgave  
Founder and Director,  
Biobrite Agro Solutions Private Limited, Kolhapur


**CONVENERS**




Dr. M. S. Sutare  
Assistant Professor,  
Department of Botany




Dr. S. P. Dorugade  
Assistant Professor,  
Department of Botany




Hon. Shri. A. Y. Patil  
(Founder)  
SVSPM, Solankur



Hon. Shri. R. Y. Patil  
Chairman  
SVSPM, Solankur



Hon. Prof. S. A. Manjare  
Principal,  
YPSG, Solankur




Dr. S. V. Madhale  
IQAC Co-ordinator  
Head, Department of Botany

**Registration Charges:**  
Online: Rs. 100 only  
Offline: Rs. 150 Only

**Account Details:**  
Account Holder: Dr. Santosh Vasan Madhale  
Bank Name: Bank of Baroda  
Bank Account Number: 20778100002852  
IFSC: BARBSOLANK (5th letter is zero)

**Scan to Pay**



## पाटील कॉलेजमध्ये कार्यशाळा

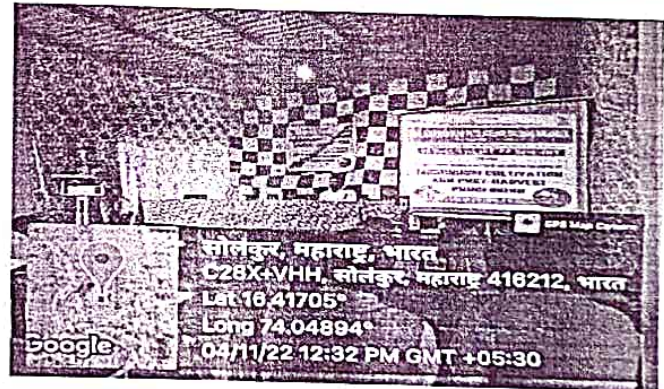
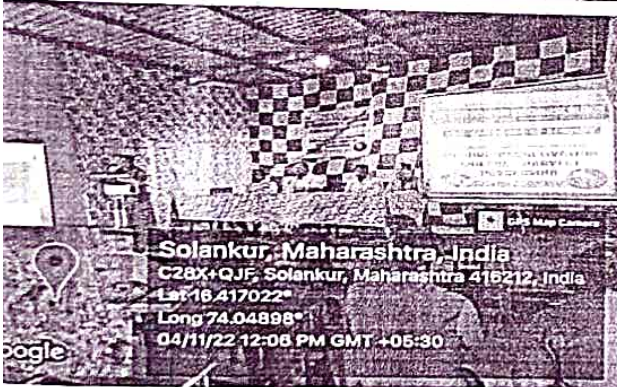
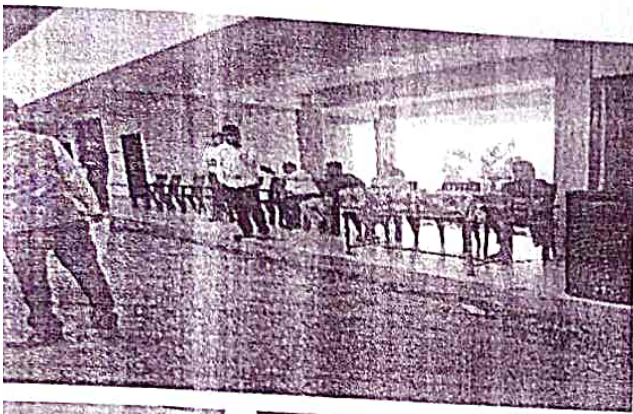
सोळांकूर : येथील यशवंतराव पाटील विज्ञान महाविद्यालयातील वनस्पतीशास्त्र विभागातर्फे शुक्रवार, दि. ४ नोव्हेंबर रोजी मशरूम शेती या विषयावर राज्यस्तरीय कार्यशाळा आयोजित केली आहे. या कार्यशाळेस बायोब्राइट अँग्रो सोल्युशन कंपनीचे परिमल रमेश उदगावे मार्गदर्शन करणार आहेत. या कार्यशाळेचा लाभ घ्यावा, असे आवाहन प्राचार्य डॉ. एस. ए. मांजरे, वनस्पतीशास्त्र विभागप्रमुख डॉ. एस. व्ही. मधाले यांनी केले आहे.

दै. पुण्यनगरी

  
**Head**

**Department of Botany**  
Shri Yashwantrao Patil Science College  
Solankur, Tal Radnaniagar







## सोळांकूर महाविद्यालयात मशरूम शेती कार्यशाळा

सोळांकूर : येथील श्री यशवंतराव पाटील विज्ञान महाविद्यालयात वनस्पतीशास्त्र विभागातर्फे राज्यस्तरीय मशरूम शेती कार्यशाळा ऑफलाईन आणि ऑनलाईन पद्धतीने नुकतीच झाली. या कार्यशाळेत बायोब्राइट अॅग्रो सोल्युशन्सचे संस्थापक डायरेक्टर परिमल उदगावे यांनी मशरूम शेतीविषयी सविस्तर माहिती दिली. कार्यशाळेत डॉ. पी. डी. शिरगावे, डॉ. एस. डी. मेंगाणे डॉ. यू. एच. पाटील या प्राध्यापकांनी विद्यार्थ्यांसह सहभाग नोंदवला. यावेळी संस्थेचे अध्यक्ष आर. वाय. पाटील व प्राचार्य एस. ए. मांजरे यांनी मनोगत व्यक्त केले. कार्यशाळेचे आयोजन डॉ. संतोष मधाळे, डॉ. मनीषा सुतारे, डॉ. सुधीर दोरगडे यांनी केले. सूत्रसंचालन डॉ. अतुल कांबळे यांनी केले.

Kolhapur Edition

Nov 17, 2022 Page No. 6

Powered by : eReleGo.com

कोल्हापूर दिनांक पान २ तरुण भारत



सोळांकूर : राज्यस्तरीय मशरूम शेती कार्यशाळेत बोलताना आर. वाय. पाटील यांनी प्रास्ताविक मांडले.

### सोळांकूर महाविद्यालयात राज्यस्तरीय मशरूम शेती कार्यशाळा

सोळांकूर : येथील श्री यशवंतराव पाटील विज्ञान महाविद्यालयात वनस्पतीशास्त्र विभागातर्फे राज्यस्तरीय मशरूम शेती कार्यशाळा ऑफलाईन आणि ऑनलाईन पद्धतीने नुकतीच झाली. या कार्यशाळेत बायोब्राइट अॅग्रो सोल्युशन्सचे संस्थापक डायरेक्टर परिमल उदगावे यांनी मशरूम शेतीविषयी सविस्तर माहिती दिली. कार्यशाळेत डॉ. पी. डी. शिरगावे, डॉ. एस. डी. मेंगाणे डॉ. यू. एच. पाटील या प्राध्यापकांनी विद्यार्थ्यांसह सहभाग नोंदवला. यावेळी संस्थेचे अध्यक्ष आर. वाय. पाटील व प्राचार्य एस. ए. मांजरे यांनी मनोगत व्यक्त केले. कार्यशाळेचे आयोजन डॉ. संतोष मधाळे, डॉ. मनीषा सुतारे, डॉ. सुधीर दोरगडे यांनी केले. सूत्रसंचालन डॉ. अतुल कांबळे यांनी केले.

Heard

Department of Botany  
Shree Yashwantrao Chavan College  
Solankur, Tal. Radhanagar



|| Dnyan - seva - tyag ||

Shri Vyanknath Shikshan Prasarak Mandal's



**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE**  
**SOLANKUR**  
**TAL. RADHANAGARI, DIST. KOLHAPUR - 416212**  
**PHONE - 02321 231561**

Email: ypsmsolankur@gmail.com

www.ypsc.ac.in

Affiliated to Shivaji University, Kolhapur

### Department of Zoology

#### **One Day Workshop on Water Analysis (13/09/2019)**


Department of Zoology has conducted One Day Workshop on Water Quality Analysis on 13/09/2019 at college level. On this occasion, the Dr. V. M. Lagade has given live demonstration on how the physical, chemical and biological water parameters were analyzed. Collection of water and estimation were clearly demonstrated by the Dr. Lagade V. M. Students also performed the hands on training on the analysis of water parameters. Collected water samples were brought at the laboratory for further estimation. Total 21 students were actively participated in the workshop.



Estimation of water parameter and water sample collection



Estimation of water parameter at Laboratory

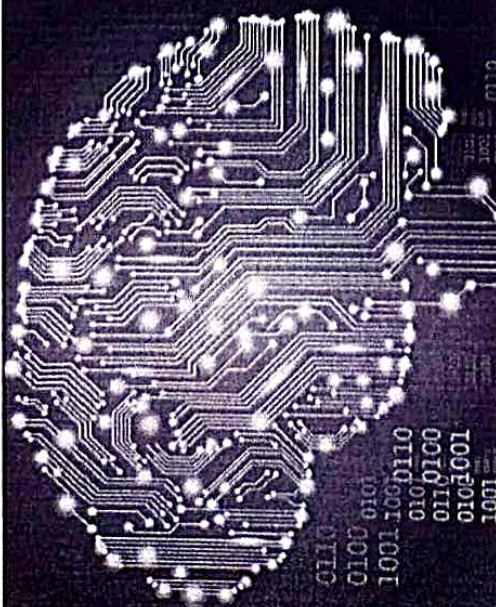
  
**Head**  
**Department of Zoology**  
**Shri. Yashwantrao Patil Science**  
**College, Solankur.**





# 4<sup>th</sup> International e-Conference on Frontiers in Computer & Electronics Engineering & nano Technology [ ICF-CEET-2021 ]

(November 19-20, 2021)



Jointly organized by :



Sanjeevan Engineering & Technology Institute, Panhala  
and  
Yashwantrao Patil Science College, Solankur

Convenor  
Swarnil Vanmore  
SETI, Panhala

Co-Convenor  
Dr. Atul Kamble  
YPSC, Solankur

E-mail: [icfet@seti.ac.in](mailto:icfet@seti.ac.in)

Website: [www.seti.ac.in](http://www.seti.ac.in)

## Organizing Committee

Chairman

Dr. Vanarotti MB

Principal  
SETI, Panhala

Dr. Chougale GG

Principal  
YPSC, Solankur

Secretary

Samrat Babar / SETI, Panhala

Organizing Secretary

Dr. Rahul Patil / YPSC, Solankur

Committee Members

Vidya Abdulpur / SETI, Panhala

Ajit Shete / YPSC, Solankur

Suraj Shinde / SETI, Panhala

Abhijit Parte / YPSC, Solankur

Rahul Neekar / SETI, Panhala

Sudip Patil / YPSC, Solankur

Chetan Gaikwad / SETI, Panhala

Rajendra Lohar / YPSC, Solankur

And all the students, teaching and non-teaching staff of  
SETI, Panhala and YPSC, Solankur

## Keywords

Topics of interest includes, but not limited to the following...

Theme I:

- Power generation, transmission & distribution
- Material science & nanotechnology
- Power electronics, systems & applications
- Circuits & systems
- Telecommunication engineering
- Renewable energy sources, smart grid technologies & applications

Theme II:

- Data science & engineering
- Processing - signal, image, speech
- Internet of things
- Computer networks & communication
- Deep learning
- Block chain

## Call for Abstracts

We cordially invite to submit the abstracts of original work as per template provided on the website. Those interested for oral & poster presentation should follow the instructions given on the website. Five best presentations from each category will be honored.

Important Dates:

Last date for abstract submission : August 30, 2021

Last date for Registration : September 15, 2021

(Sorry, NO registrations after last date)

The conference proceedings (only abstracts) will be published and e-copy will be shared.

The full length peer reviewed papers will be published in  
Journal of Science / Scope of Science Journal.

## Patrons

Hon. A. Y. Patil

(Founder, SVSPM, Solankur)

Hon. P. R. Bhosale

(Chairman, Holywood Academy, Kolhapur)

Hon. R. Y. Patil

(Chairman, SVSPM, Solankur)

Hon. N. R. Bhosale

(Joint Secretary, Holywood Academy, Kolhapur)

## About SETI, Panhala

Holywood Academy was established in 1992 by a visionary academician Hon P. R. Bhosale to impart best quality education at Primary, Secondary, Higher-Secondary. Graduation and Post-graduation in various disciplines. Further, SETI was established in 2009 to meet the need of technology driven modern 21st century. It offers six B.Tech. courses and two PG course It is accredited by NAAC and approved by AICTE, New Delhi; recognized by DTE, Govt of Maharashtra and affiliated to Shivaji University Kolhapur and BATU, Lonere. It is located at the foot hills of historical place, fort Panhala. It has become one of the best technical campus under the futuristic leadership of Hon N. R. Bhosale.

## About YPSC, Solankur

The institute is situated at the heart of Western Ghats, one of the 13 global biodiversity hotspots. It is the only science college in tehsil. Being the mountainous rural area, to meet the barrier in higher education and to remove the inequities in access to education amongst various socials, the foundation of Sanstha pillared under the competent guidance of Hon. Shri. A. Y. Patil. Shri Vyanknath Shikshan Prasarak Mandal, Solankur was established in 1996. Starting with primary, highschool, junior college of arts & science; the senior college started in the year 2009 with the mission to sensitize the students to ethical, social and cultural values to make an enlightened nation and strive for mass welfare and happiness through spread of education. The college is accredited by NAAC. It has organized several national and international conferences. The college is committed to meet the educational and societal needs of the hilly rural area which will help to build up the humane nation under the skilled leadership of Chairman Hon. R. Y. Patil.

## Mode of Payment

After acceptance of abstract, you will receive the abstract number. Then payment has to be done as per the details given on the website. Download the registration form provided on the website, fill it and then email the registration form and payment details to - [icfet@gmail.com](mailto:icfet@gmail.com)

The soft and hard copy of conference certificate will be provided.

Registration Fee:

Authors	Registration Fees
Indian authors (working in India)	Rs. 1000 /-
Foreign authors (working in Foreign)	\$ 50 /-



# *Souvenir*

*4<sup>th</sup> International e-Conference*

*on*

**Frontiers in**

**Computer & Electronics Engineering**

**and nanoTechnology**

**[ICF-CEET-2021]**

**NOVEMBER 19-20, 2021**



*Jointly organized by*

**SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE,  
PANHALA**

**and**

**SHRI YASHWANTRAOPATIL SCIENCE COLLEGE,  
SOLANKUR**



Journal of  
**Active and Passive Electronic Devices**

Volume 16, Number 2, 2022

SPECIAL ISSUE

4th International eConference on Frontiers in Computer  
& Electronics Engineering and nanoTechnology [ICF-CEET]

GUEST EDITORS

**Rahul B. Patil**, *Shri Yashwantrao Patil Science College Solankur, Shivaji University  
Kolhapur, India* and **Sangeeta R. Chougule**, *Kolhapur Institute of Technology, India*

<b>Short Introduction to the 4th ICF CEET 2021 and Souvenir</b>	<b>83</b>
<b>Comparative Analysis of Linear Feedback Shift Register on Different FPGA Platforms</b> KARUNA BOGAWAR AND SHASHANK SHRIRAMWAR	<b>85</b>
<b>On the Advancements in DC Fast Charging Power Converters Technologies for Electric Vehicle</b> AMOL SUTAR AND MAHADEV PATIL	<b>93</b>
<b>Fast Charging of Batteries Utilized in Electrical Vehicles with Cuk Converter</b> BHUPALI KUMBHAR AND SAGAR PATIL	<b>109</b>
<b>Frequency and Pattern Reconfigurable Planar Microstrip Antenna</b> ASHIKA K. ANJANA DEVARAJAN, PM AMRITHA, ARJUN SAJI, SUMI M AND HARIKRISHNAN AI	<b>119</b>
<b>The Various Traction Transformers and Power Quality Improvement Using YD Traction Transformer in Electrical Railway Traction System</b> DEEPAK KUMAR GOYAL AND DINESH BIRLA	<b>131</b>
<b>Renewable Energy Sources Based Grid Integration: An Introspective Analysis</b> DEEPAK KUMAR GOYAL AND SUDHIR KESHARI	<b>141</b>
<b>Implementation of DTC-SVM (Sample Reference Phase Voltages) of Induction Motor Using Arduino UNO</b> Y. LAXMI NARASIMHA RAO AND G. RAVINDRANATH	<b>155</b>
<b>Design of a Bulk Driven Gain Boosting Technique Operational Amplifier for Low Power and High Swing Applications</b> SANDEEP KAKDE, RAJESH THAKARE, SHAILESH KAMBLE, MANOJ PATIL AND PAVITHA U S	<b>165</b>

ISSN: 1555-0281 • JAPED 16(2) 83-176 (2022)

PAPERS IN THIS JOURNAL ARE AVAILABLE  
ON-LINE BEFORE THE PRINT COPY  
[www.oldcitypublishing.com/journals/japed-home/](http://www.oldcitypublishing.com/journals/japed-home/)







II GYAN SEVA TYAG II

Shri Vyanknath Shikshan Prasarak Mandal's

# SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR

Taluka: Radhanagari, District: Kolhapur (Maharashtra, India), Pincode: 416212

Email: ypvmsolankur@gmail.com / ypvms.436.cl@gmail.com

Website: www.ypsc.ac.in

Affiliated to Shivaji University Kolhapur, MS, India | Accredited by NAAC with 'B' Grade (CGPA=2.14)

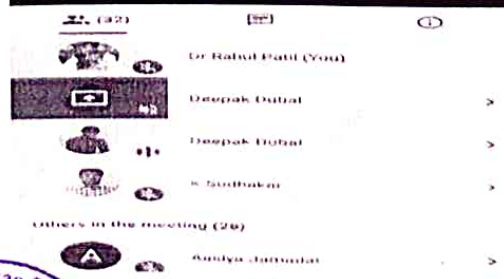
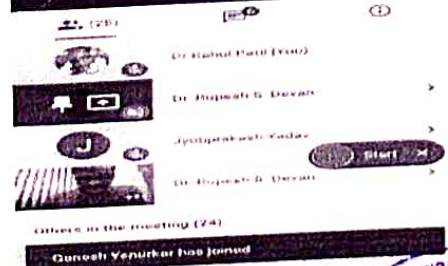
Shri. A. Y. Patil  
Secretary

Shri. R. Y. Patil  
Chairman

## Activity Report – Webinar

(Academic Year: 2021 - 22)

Name of the activity	-	Webinar – 4 <sup>th</sup> ICF-CEET-2021
Organized by	-	Department of Physics, YPSC Solankur
Date of Activity	-	19 <sup>th</sup> & 20 <sup>th</sup> November 2021
Time	-	10 am onwards
Venue	-	online
Total Number of participants	-	32
Name of Faculty	-	Dr RB Patil
Objective	-	e-conference
Outcome	-	recent advances in nanotechnology, worked as Editor of special issue in WOS indexed journal,





॥ GYAN SEVA TYAG ॥

Shri Vyanknath Shikshan Prasarak Mandal's

**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR**

Taluka: Radhanagari, District: Kolhapur (Maharashtra, India). Pincode: 416212

Email: [ypvmsolankur@gmail.com](mailto:ypvmsolankur@gmail.com) / [ypvms.436.el@gmail.com](mailto:ypvms.436.el@gmail.com)

Website: [www.ypsc.ac.in](http://www.ypsc.ac.in)

Affiliated to Shivaji University Kolhapur, MS, India | Accredited by NAAC with 'B' Grade (CGPA=2.14)



**Shri. A. Y. Patil**  
Secretary

**Shri. R. Y. Patil**  
President

## Department of Chemistry

### REPORT ON THE WEBINAR

The Department of Chemistry, Shri Yashwantrao Patil Science College, Solankur has organized a webinar on "*Handling of Household Chemiscals and its Advantages and disadvantages*" on 30<sup>th</sup> August 2021 between 12:00noon to 02:00pm , through the Google meet platform. The lecture in this webinar was given by **Dr. Smita Suresh Giri, Associate Professor, Gopal Krishna Gokhale College, Kolhapur**. Mr. J.K.Chavan, Head, Department of Chemistry chaired the session and delivered welcome address. Dr. Atul Kamble, Assistant Professor introduced the resource person **Dr. Smita Suresh Giri** has delivered a lecture on the topic "Hazards of common household product". She explained about the importance of household chemicals and its hazards on human beings.

We received good response from the audience and also they gave very good feedback. The resource person thanked the organizers for arranging the live webinar. At the end of the webinar Mr. P.S.Pawar, Assistant Professor delivered the vote of thanks. He thanked the resource person, Management, HoDs, Faculty members, participants and other officials for their active support for making the programme to be successful.







II GYAN SEVATYAG II

Shri Vyanknath Shikshan Prasarak Mandal's

# SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR

Taluka: Radhanagari, District: Kolhapur (Maharashtra, India). Pincode: 416212

Email: ypvinsolankur@gmail.com / ypvms.436.ct@gmail.com

Website: www.ypsc.ac.in

Affiliated to Shivaji University Kolhapur, MS, India | Accredited by NAAC with 'B' Grade (CGPA=2.14)

Shri. A. Y. Patil  
Secretary

Shri. R. Y. Patil  
Chairman

## Activity Report – Webinar

(Academic Year: 2020-21)

Name of the activity	-	Webinar – 3 <sup>rd</sup> ICF-MET-2020
Organized by	-	Department of Physics, YPSC Solankur
Date of Activity	-	27 <sup>th</sup> & 28 <sup>th</sup> November 2020
Time	-	10 am onwards
Venue	-	online
Total Number of participants	-	52
Name of Faculty	-	Dr RB Patil
Objective	-	e-conference
Outcome	-	recent advances in nanotechnology, worked as Editor of special issue in Scopus and WOS indexed journal,

A Talk on



Insights to Machining Processes  
ICFMET - 2020

Presented by:

Dr. Prithviraj Mukhopadhyay  
Assistant Professor  
Department of Mechanical Engineering  
Indian Institute of Technology Delhi  
Hauz Khas - 110016





# *Souvenir*

*3<sup>rd</sup> International e-Conference*

*on*

**Frontiers in**

**Mechanical Engineering and nanoTechnology**

**[ICFMET-2020]**

**NOVEMBER 27-28, 2020**



*Jointly organized by*

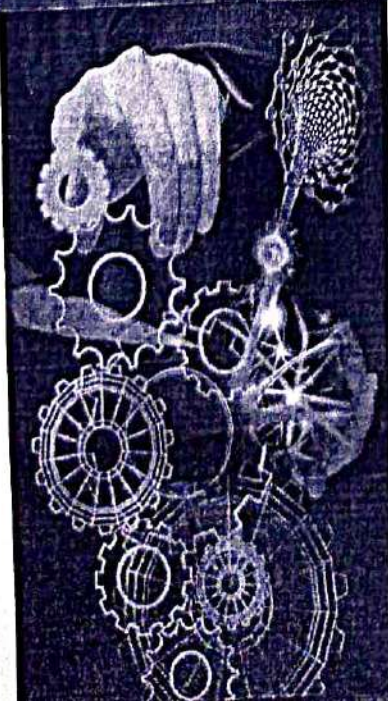
**SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE,  
PANHALA**

**and**

**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE,  
SOLANKUR**



(November 27-28, 2020)



Jointly organized by



Sanjeevan Engineering & Technology Institute, Panhala

and

Yashwantrao Patil Science College, Solankur

Technical Sponsor



Association of Science and Technology

Convener  
V. V. Vanmore  
SETI, Panhala

Co-Convener  
Dr. S. H. Tamboli  
YPSC, Solankur

**Dr. Vanarotti MB**  
Principal  
SETI, Panhala

**Dr. Chougale GG**  
Principal  
YPSC, Solankur

**Organizing Secretary**  
Dr. Jatrakkar AA / YPSC, Solankur

**Secretary**  
Jadhav SP / SETI, Panhala

#### Committee Members

**Dr. Shringeri AK** / SETI, Panhala  
**Patil AP** / YPSC, Solankur  
**Naik AN** / SETI, Panhala  
**Khorale SD** / YPSC, Solankur  
**Thorat VD** / SETI, Panhala  
**Patil VB** / YPSC, Solankur  
**Pisal SK** / SETI, Panhala  
**Patil SM** / YPSC, Solankur

#### Coordinator - AST

And all the students, teaching and non-teaching staff of  
SETI, Panhala and YPSC, Solankur

#### Keywords

- Nanomaterials and Nanotechnology
- Nanofabrication
- Engineering Design
- Machinery and Machine Elements
- Mechanical Structures and Stress Analysis
- Automotive Engineering
- Engine Technology
- Aerospace Technology and Astronautics
- Nanotechnology and Microengineering
- Control, Robotics, Mechatronics
- Manufacturing
- Theoretical and Applied Mechanics
- Dynamical Systems, Control
- Fluid Mechanics
- Engineering Thermodynamics, Heat and Mass Transfer
- MEMS
- Materials Engineering
- Tribology and Surface Technology
- Precision Engineering, Instrumentation, Measurement
- and related topics.

#### Call for Abstracts

We cordially invite to submit the abstracts of original work in electronic format as per template provided on the website. Those willing for poster presentation should prepare the HD jpg image of the poster (preferably using Coreldraw software) and those interested for oral presentation should prepare the video file (5 minutes) & ppt as per instructions given on the website. Five best posters and orals will be honored.

#### Important Dates:

Last date for abstract submission: September 30, 2020  
Last date for Registration: October 15, 2020

(Sorry, NO registrations after last date)

The conference proceedings (only abstracts) with ISBN will be published and e-copy will be shared.

The full length peer reviewed papers will be published in  
Quality Science / Scopus indexed journals.

Hon. N. R. Bhosale  
(Chairman, SVSPM, Solankur)

Hon. R. Y. Patil  
(Chairman, SVSPM, Solankur)

Hon. N. R. Bhosale  
(Joint Secretary, Hollywood Academy, Kolhapur)

#### About SETI, Panhala

Holy-wood Academy was established in 1992 by a visionary academician Hon P. R. Bhosale to impart best quality education at Primary, Secondary, Higher-Secondary, Graduation and Post-graduation in various disciplines. Further, SETI was established in 2009 to meet the need of technology driven modern 21st century. It offers six B.Tech. courses and two PG course It is accredited by NAAC and approved by AICTE, New Delhi; recognized by DTE, Govt of Maharashtra and affiliated to Shivaji University Kolhapur and BATU, Lonere. It is located at the foot hills of historical place, fort Panhala. It has become one of the best technical campus under the futuristic leadership of Hon N. R. Bhosale.

#### About YPSC, Solankur

The institute is situated at the heart of Western Ghats, one of the 18 global biodiversity hotspots. It is the only science college in tehsil. Being the mountainous rural area, to meet the barrier in higher education and to remove the inequities in access to education amongst various socials, the foundation of Sanstha pillared under the competent guidance of Hon. Shri. A. Y. Patil. Shri Vyanknath Shikshan Prasarak Mandal. Solankur was established in 1996. Starting with primary, highschool, junior college of arts & science; the senior college started in the year 2009 with the mission to sensitize the students to ethical, social and cultural values to make an enlightened nation and strive for mass welfare and happiness through spread of education. The college is accredited by NAAC. It has organized several national and international conferences. The college is committed to meet the educational and societal needs of the hilly rural area which will help to build up the humane nation under the skilled leadership of Chairman Hon. R. Y. Patil.

#### Mode of Payment

After acceptance of abstract, you will receive the abstract number. Then payment has to be done as per the details given on the website. Download the registration form provided on the website, fill it and then email the registration form and payment details to - [regifmet@ascitek.org](mailto:regifmet@ascitek.org)

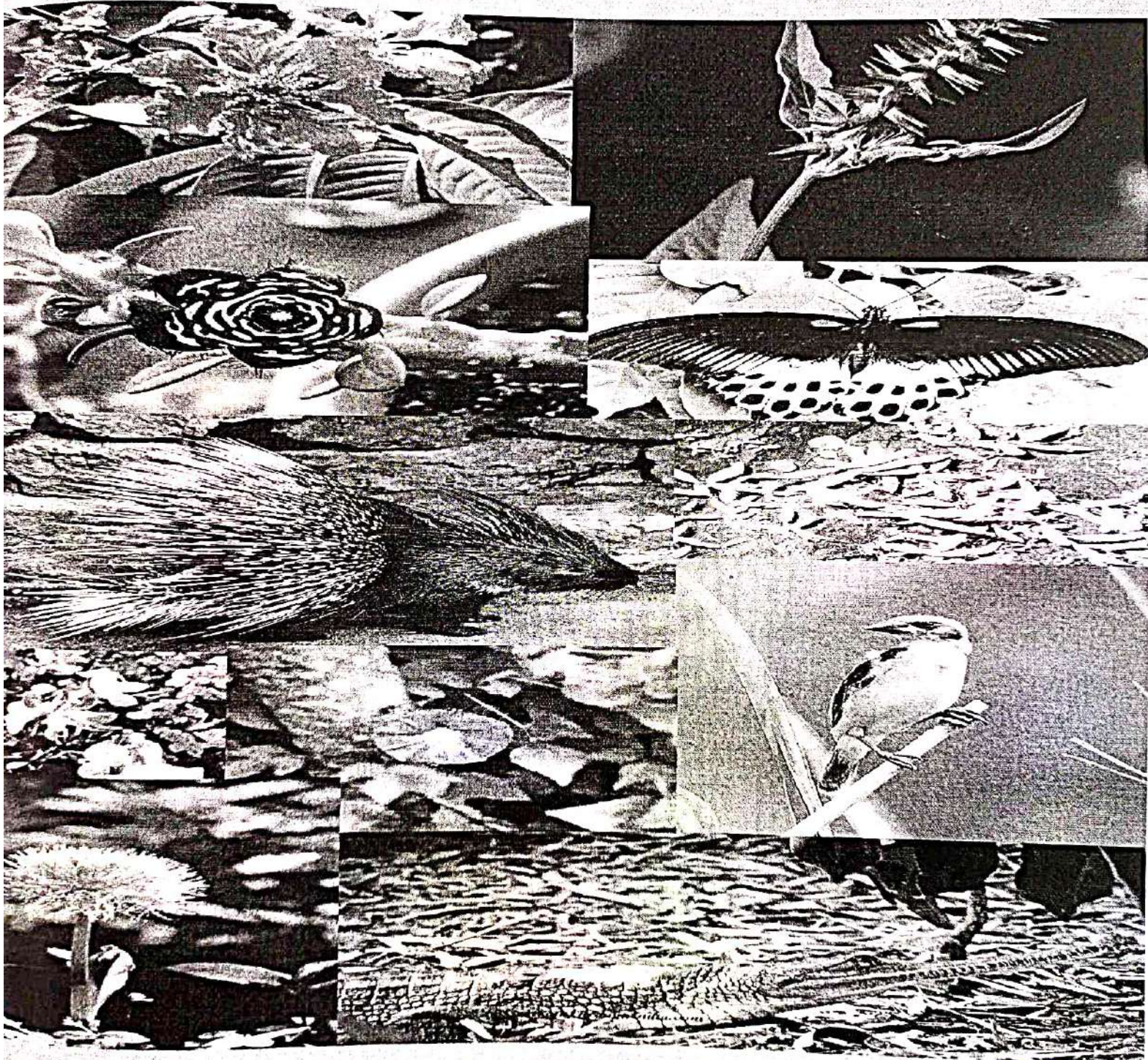
The conference certificate will be sent by post.

#### Registration Fee:

Registration Fees	Registration Fees	Full paper Publication Fees (additional)
Indian authors (working in India)	Rs. 1000 /-	Rs. 3000 /-
Indian authors (working abroad)	\$ 50 /-	\$ 100 /-



# CONSERVATION OF WILD TAXA: PRESENT SCENARIO



## EDITORS

DR. S. V. MADHALE  
DR. S. P. DORUGADE  
DR. M. V. GOKHALE

DR. M. S. SUTARE  
DR. V. M. LAGADE  
PROF. N. S. CHAVAN







|| Dnyan-seva-tyag ||

Shri Vyanknath Shikshan Prasarak Mandal's

**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE**

SOLANKUR

TAL. RADHANAGARI, DIST. KOLHAPUR - 416212

PHONE - 02321 231561

Email: ypsmsolankur@gmail.com

Affiliated to Shivaji University, Kolhapur

25/12/2019

## Report- National Workshop One day

### NATIONAL WORKSHOP ON

### HORTICULTURE-

### AN AGRIBUSINESS

### In Ollaboration with Lead College Scheme

(December 20, 2019)

Career oriented and skill based programmes are often organised in the Shri Yashwantrao Patil Science college, Solankur. As it is the duty of Institutions i.e. HEI to provide skill based education and to make the capable students. Hence forth the various departments in the college are often engaged in such curricular and co-curricular activities college. By Keeping in mind with the kind permission of management Hon A.Y. Patil (Founder ,SVSPM Solankur) and Hon R.Y. Patil (Chairman, SVSPM, Solankur) and I/C Principal **Dr. G.G. Chougale**, the **Department of Botany** has organised One day National workshop on 'Horticulture - an Agribusiness' NWAHA, 2019 in collaboration with **Lead College scheme** as per the rules and regulations of Shivaji University Kolhapur dated on 20<sup>th</sup> December 2029.

The Programme was divided in four sessions with Inauguration, Keynote address, Technical session I with Invited lectures of **Dr M.D. Nandikar** Scientist, Naoroji Godrej Centre for Plant Research (NGPCR), Satara **Dr. S. V. Kambhar** Ass. Prof., Post Graduate Dept. of Botany, Basavprabhu Kore College, Chikodi, Karnataka followed by Technical session II with hands on training for grafting, budding layering for various fruit yielding plants by **Krusha Paryavekshak**, Krushi Chikistalaya, Radhanagari **Mr. V. B. Chavan**, M. Sc. (AGPM) **Seema Biotech**, Hatkanangale, District- Kolhapur.

Near about 131 participants registered for the programme and provided with certificates. Besides Near about 326 students from our college were also attended the workshop. All the participants, delegates, and students from our college were satisfied with the programe arrangement, knowledgeable Resource persons and refreshments with lunch and tea.

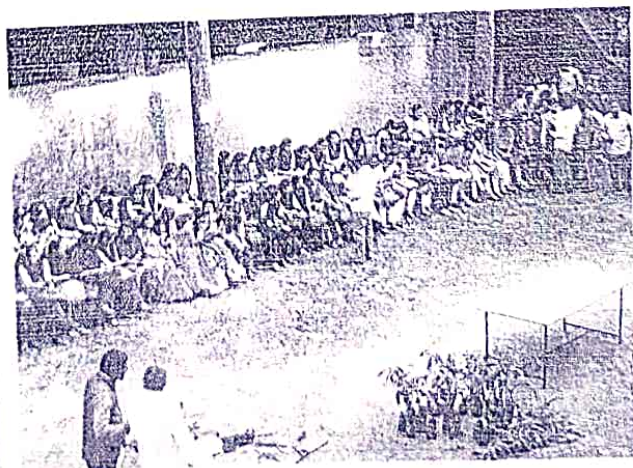
Head,

Department of Botany,  
Yashwantrao Patil Science College,  
Solankur, Tal. Radhanagari

Principal

Yashwantrao Patil Science College, Solankur





Photographs of the Events

*[Signature]*  
Head,

Department of Botany,  
Shri Yashwantrao Patil Science College,  
Solapur, Tal. Radhanagar

*[Signature]*  
Head,  
Department of Botany,  
Shri Yashwantrao Patil Science College,  
Solapur, Tal. Radhanagar





II GYAN SEVA TYAG II

Shri Vyanknath Shikshan Prasarak Mandal's

# SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR

Taluka: Radhanagari, District: Kolhapur (Maharashtra, India). Pincode: 416212

Email: ypvmsolankur@gmail.com / ypvms.436.ct@gmail.com

Website: www.ypsc.ac.in

Affiliated to Shivaji University Kolhapur, MS, India | Accredited by NAAC with 'B' Grade (CGPA=2.14)

Shri. A. Y. Patil  
Secretary

Shri. R. Y. Patil  
Chairman

## Activity Report – Workshop

(Academic Year: 2018-19)

Name of the activity	-	Workshop – Basic Science & Research
Organized by	-	Department of Physics, YPSC Solankur & IAPT
Date of Activity	-	24 <sup>th</sup> December 2018
Time	-	11 am onwards
Venue	-	YPSC
Total Number of participants	-	more than 100
Name of Faculty	-	Dr SH Tamboli, Dr AA Jatrakar, Dr RB Patil,
Objective	-	career in basic sciences after graduation
Outcome	-	11 <sup>th</sup> & 12 <sup>th</sup> students also participated to curiously along with B. Sc. students to know the carrier path in this field





**Activity Report – Conference / Seminar**

(Academic Year: 2018-19)

Name of the activity	-	Confernce – 2 <sup>nd</sup> ICMES-2018
Organized by	-	Department of Physics, YPSC Solankur
Date of Activity	-	7 <sup>th</sup> & 8 <sup>th</sup> December 2018
Time	-	10 am onwards
Venue	-	Shivaji University Kolhapur auditorium
Total Number of participants	-	more than 100
Name of Faculty	-	Dr RB Patil, Dr SH Tamboli, Dr AA Jatrakar
Objective	-	conference
Outcome	-	recent advances in nanomayerials and technology, worked as Editor of special issue published in in Scopus indexed journal,





Technical Sponsor



**International Conference  
on  
Materials and Environmental Science  
[ICMES-2018]**

**(December 07- 08, 2018)**



Jointly organized by

**Yashwantrao Patil Science College,  
Solankur**

and

**The New College, Kolhapur  
(DBT Star College)**

**Knowledge Partners**

University Science Department of  
Mentation Centre Computer Science

**Shivaji University, Kolhapur**

**Venue**

**Shivaji University, Kolhapur  
Maharashtra, India.  
(www.unishivaji.ac.in)**

**For further details, please contact**

Convener  
**R. B. Patil**  
SC, Solankur  
atil@gmail.com  
503962022

Co-Convener  
**Dr. A. D. Chougale**  
The New College, Kolhapur  
ashokdchougale@gmail.com  
9689872020

**Website: www.icmes.in**

**Email: icmes2018@gmail.com**

**Advisory Committee  
(Alphabetically)**

**Chang Jia-Yaw** / NTSTU, Taiwan  
**Deshmukh RR** / ICT, Mumbai  
**Dhayal RS** / Central University of Punjab  
**Fulari VJ** / Shivaji University, Kolhapur  
**Ghule AV** / Shivaji University, Kolhapur  
**Giri Ashok** / CSIR-NCL, Pune  
**Hyam RS** / Goa University  
**Joo Oh-Shim** / KIST, South Korea  
**Kamat RK** / Shivaji University, Kolhapur  
**Karna S** / Louisiana State University, USA  
**Kodam Kishan** / SPPU, Pune  
**Kulkarni MJ** / CSIR-NCL, Pune  
**Leontic L** / Alexander I Cuza University, Romania  
**Mane RS** / SRTMU, Nanded  
**Park H H** / Yonsei University, South Korea  
**Parshetti GK** / National University of Singapore  
**Patil PS** / Shivaji University, Kolhapur  
**Patil VB** / Solapur University  
**Puri RK** / Ex-Head, USIC, Shivaji University  
**Raikar VA** / Sanjay Ghodawat University, Atigre  
**Rajpure KY** / Shivaji University, Kolhapur  
**Rane SB** / CMET, Pune  
**Raut PD** / Shivaji University, Kolhapur  
**Shimpale VB** / The New College, Kolhapur  
**Shinde PS** / University of Alabama, USA  
**Shivagan DD** / CSIR-NPL, Delhi  
**Vetri Vel** / Fraunhofer Institute, Germany

**Organizing Committee**

**Chairman**

**Dr. G. G. Chougale**  
Principal  
YPSC, Solankur

**Dr. N. V. Nalawade**  
Principal  
The New College, Kolhapur

**Coordinator**  
**Dr. J. B. Yadav**  
USIC,  
Shivaji University, Kolhapur

**Organizing Secretary**  
**Dr. M. S. Nimbalkar**  
Botany,  
Shivaji University, Kolhapur

**Treasurer**  
**Dr. S. H. Tamboli**  
YPSC, Solankur

**Secretary**  
**Dr. N. V. Pawar**  
The New College, Kolhapur

**Technocrats**

**Dr. A. A. Jatrarkar**  
YPSC, Solankur

**Dr. V. R. More**  
The New College, Kolhapur

**All the students, teaching and non-teaching staff of Yashwantrao Patil Science College (YPSC), Solankur and The New College, Kolhapur**

**Call for Abstracts:**

The participants are requested to submit their abstracts of original work in electronic format in MS word, 1.5 line spacing, Times New Roman, font size 12 limited up to 300 words including title (14, Bold, Centred). The poster size should be 1m x 1m.

Those interested for oral presentations should send their soft copy of presentation along with abstract. Three best posters and orals will be awarded. *The full length papers will be published in UGC approved journal. The abstract booklet with ISBN will be published.*

1. International Journal of Environmental Research (Springer)
2. Iranian Journal of Material Science and Engineering (Elsevier Assisted)
3. International Journal of Materials Research
4. IJATE
5. International Journal of Environment and Development





**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE**  
**SOLANKUR**  
**TAL. RADHANAGARI, DIST. KOLHAPUR - 416212**  
**PHONE - 02321 231561**

Email: ypsmsolankur@gmail.com

www.ypsc.ac.in

Affiliated to Shivaji University, Kolhapur

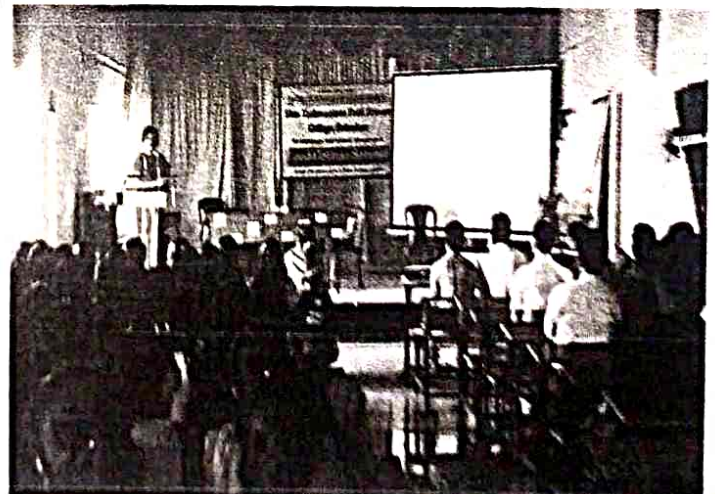
### Department of Zoology

#### **One Day Workshop on Freshwater Fish Culture (24/09/2018)**

Department of Zoology has conducted **One Day Workshop on Freshwater Fish Culture** on 24/09/2018 under the Lead College Scheme. For this workshop two invited guest was Dr. Bhilave M. P of Shivaji University, Kolhapur and Dr. Vijaya Chavan, Principal of VYMPV Pethvadgaon. Dr. Bhilave was talk on the Construction, Management and economics of freshwater fish and prawns. Dr. Vijaya Chavan Madam was delivered her talk on different types of freshwater fish breeds. This workshop was inaugurated in the presence of President of our Sanstha Hon. Shri R. Y. Patil Saheb. Total 78 students were actively participated in the workshop. Inauguration



Dr. Bhilave M. P. Giving speech



Dr. Vijaya Chavan Giving talk

**Head**  
**Department of Zoology**  
**Shri. Yashwantrao Patil Science**  
**College, Solankur.**





REPUBLIC OF SOUTH AFRICA  
PATENTS ACT, 1978  
APPLICATION OR REQUEST TO THE REGISTRAR  
(REGULATION 39)

OFFICIAL APPLICATION NO.		
21	01	<b>2023/03303</b>

AGENT REFERENCE
3006LPS

IN THE NAME OF:

71	Dr. Mahesh Vijay Gokhale Dr. Niranjana Sunil Chavan <b>Dr. Santosh Vasant Madhale</b> Dr. Ajit B. Telave Dr. Priya Digambar Patil Gayatri Umesh Gokhale
----	--

In terms of the following section(s) of the Act and/or regulation(s) of the Patent Regulations, the applicant hereby request the following:

Request for expedited acceptance in terms of section 40, regulation 39 and 44.

Documents, if any, lodged in support of the request:

N/A

ADDRESS FOR SERVICE

74	337 Surrey Avenue, Randburg, Gauteng, 2194 SOUTH AFRICA
----	--

28 February 2023

Digitally signed by :

Signature of Applicant

FOR OFFICIAL USE ONLY

The above application or request is hereby allowed/refused.

Reasons for refusal of conditions of allowance, if any:

OFFICIAL DATE STAMP

REGISTRAR OF PATENTS



**MEMORANDUM OF UNDERSTANDING**  
**Between**  
**DEPARTMENT OF CHEMISTRY,**  
**DOODHSAKHAR MAHAVIDYALAYA, BIDRI**  
**And**  
**DEPARTMENT OF CHEMISTRY (Y.P. Patil Mahavidyalaya, Solankur)**

This Memorandum of understanding (MOU) is entered into by and between:

Doodhsakhar Mahavidyalaya, Bidri hereinafter referred to as "DMB"

And

Y.P. Patil Mahavidyalaya, Solankur

The Doodhsakhar Mahavidyalaya, Bidri and Y.P.P.M, Solankur hereinafter referred to as the "Parties".

Considering their common interest in promoting the mutual cooperation in the area of education and research.

Desiring to expand the basis for academic and educational cooperation; and pursuant to the prevailing laws and regulations in their respective areas/domain/jurisdictions, as well as the procedures and policy of the Government of India concerning academic and educational cooperation;

HAVE AGREED as follows:

**Proposition :** To work towards an enriching collaboration The Doodhsakhar Mahavidyalaya, Bidri and Y.P.P.M, Solankur with a commitment to proffer an empowered human capital to the Nation which would be developed in the institute through insightful exchange of learning resources, technology scaffolds and immense caliber of the students.

**Premise :** A significant similarity between the vision statements of DMB and Y.P.P.M, Solankur explicitly marks out the defined need for interaction with institutions of higher learning at local & state and national levels for enabling innovative academic and research ventures. Hence, the integration of the learning assets of our institutes would not only strengthen the skills of aspiring studying here but would also cater to the country's present need for establishing Excellence in Higher Education which also encourage a mutual exchange of best practices in education.

DMB has been established in alignment with the Sanstha's mission "**Vidya Param Bhushnam**" to increase the access of science studies, particularly among the marginalized sectors of children of farmers. Also to promote the educational aspirations as well as the economic welfare of students belonging to the reservation groups. Ever since its inception on 23 July 1990, DMB has been a frontrunner in contributing to **inclusive** education to benefit the students. A guided access to the resources of DMB would be the most integral part of the learning graph of students who are underprivileged and remain devoid of quality education at various levels of their educational journey.



1. **Industrial Tie-ups in Campus** – DMB and Y.P.P.M, Solankur can convince forums of interacting between industry experts and students. This forum could also invite the distinguished alumni of the institutes to address the students.
2. **Students Exchange Programme** – This could happen at two levels:
  - A. Students enrolled for UG in DMB and Y.P.P.M, Solankur could do soft skill-specific workshops at DMB or Y.P.P.M, Solankur
  - B. Students enrolled for UG/PG programmes in various subjects could do few hours of specialized/ add on/ value added courses through DMB and cluster for industrial internship to make their CVs multi-profiled.
3. **Building Placement Portfolio**- is an exercise in ensuring that our protégés have a more holistic personalities which would complement their domain knowledge and this can be achieved through-
  - a. Soft skill workshops convened in the precincts of the cluster institutes.
  - b. Group research on renewable energy, green technologies to aid the endeavors in conserving the ecosystem.
  - c. Complimentary invitation to the mentors and group of students of the cluster institutes to the conferences, seminars, workshops, training forums, sports and cultural events organised in DMB and Y.P.P.M, Solankur through CHEMISTRY Departments.
4. **Faculty/Scientists/Staff Exchange**- to the mutual benefit of institutions in the following way:
  - a. Collaboration in teaching, research and development, and consultancy studies in the field of mutual interest.
  - b. The exchange of academic materials and publications.
  - c. Conducting lectures.
  - d. Undertaking joint research.
  - e. Participating in seminars, symposiums, and other types of academic discussions.
  - f. Conducting study tours and joint consultancy work.
5. **Intellectual Property Rights** - The intellectual property Rights that arise as a result of joint research and collaborative activity under the agreement will be worked out on a case to case basis and will be consistent with officially laid down IPR policies of all the institutes.
6. **Arbitration** – if any dispute or difference arises between the parties hereto as to the construction, interpretation, effect and implication of any provision of this agreement including the rights and/or liabilities or any claim or demand of any party against other or in regard to any other matter under these presents but excluding any matters. Decisions or determination of which is expressly provided for in this agreement, such disputes or differences shall be referred to a sole arbitrator mutually appointed by the parties.
7. **Terms of MoU :**

The tenure of MoU will be for a period of **five years** effective from the date of its signatures by the parties. It can be renewed further with mutual consent all concerned institution Cluster institutions have the right to initiate or termination of this MoU with at least six months notice.

For and on behalf of the DM Bidri

Name : PATIL SANJAY D.  
Title : Principal  
Date: 13-01-2023

**PRINCIPAL**

DOODHSAKHAR MAHAVIDYALAYA,  
BIDRI, TAL. KAGAL, DIST. KOLHAPUR

2) For and on behalf of the DM Bidri

Witness :

Name :

Title : IQAC, Coordinator

Date: 13-01-2023

Balokhe

4) For and on behalf of the DM Bidri

Witness :

Name :

Title : IQAC, Co-coordinator

Date: 13-01-2023

IQAC  
Coordinator

For and on behalf of Y.P. Patil Mahavidyalaya,  
Solankur

Name: Mr. J.K. Chavan

Title: Asst. professor

Date: 13-01-2023

13/01/23

3) For and on behalf of the DM Bidri

Name: Dr. S. N. Zende

Title : Head of Chemistry Department,

Date: 13-01-2023

Department of Chemistry,  
Doodhsakhar Mahavidyalaya,  
Bidri (Mouni) - 416208  
Krupa Dist. Kollhapur

5) For and on behalf of the DM Bidri

Name : Dr. S.K. Sawant

Title : Convenor & Co-convenor

Date: 13/01/2023

13/01/23







Government of Maharashtra  
Estb. - 1880

**RAJARAM COLLEGE, KOLHAPUR**  
VIDYANAGAR, SAGARMAL, KOLHAPUR - 416004  
E-Mail: [rajaramcollege@gmail.com](mailto:rajaramcollege@gmail.com)

Tele: 0231- 2537840

Fax: 0231- 2531989

OUT NO./RCK/EST-1/2023 / 15

Date: 11/01/2023

To,

**The Principal,**

Shri Yashwantrao Patil Science College Solankur,

Tal. Radhanagari, Dist. Kolhapur 416212

Subject: - Willingness for **Memorandum of Understanding.**

Dear Sir,

With reference to above mentioned subject, as per the conversation and discussion between Dr. L.P. Bhopale, Head, Department of Zoology, Rajaram College, and Dr. Bharti S. Wali, Head, Department of Zoology, Shri Yashwantrao Patil Science College, Solankur, we are willing to Sign MoU between said department of our college.

We are waiting for your positive reply.

Thanking you.

Principal

(Dr. Y. C. Attar)

|| Dnyaneshwara ||

Shri Vyanknath Shikshan Prasarak Mandal's

SHRI YASHWANTRAO PATIL SCIENCE COLLEGE  
SOLANKUR  
TAL. RADHANAGARI, DIST. KOLHAPUR - 416212  
PHONE: 02321 231561  
Email: ypsmsolankur@gmail.com

Affiliated to Shivaji University, Kolhapur

YPSC/MO /2023

Date: 21/01/2023

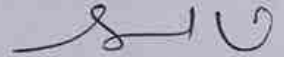
To,  
The Principal,  
Rajaram College Kolhapur

**Subject:** Regarding the Memorandum of Understanding.

Dear Sir/Madam,

With respect to above mentioned subject and reference of your letter (OUT NO./RCK/EST-1/2023/13, dated 11/01/2023) regarding MoU between two departments of our college. We are in favor to sign the MoU between the two Zoology Departments of our college. This MoU would be beneficial in encourage and enhancing the academic interest, quality education and scientific attitude among the students and faculty.

Thanking you,



Principal  
(Dr. G. G. Chougale)



PRINCIPAL  
Shri Yashwantrao Patil Science College,  
Solankur, Tal. Radhanagari, Dist. Kolhapur.

Received  
2023





Government of Maharashtra  
Estd :1380  
Rajaram College, Kolhapur  
Department of Zoology  
Eco-Prithvi Club  
Vidyanagar, Kolhapur 416004  
E-Mail: [rekzoology@gmail.com](mailto:rekzoology@gmail.com)

No. RCK/Zoo/2023/

Date: 10/03/2023


To,

The Head  
Department of Zoology  
Shri. Yashwantrao Patil  
Vidyan Mahavidyalaya, Solapur

Subject: Invitation for Bio-Genius Competition.

Respected Madam,

With reference to above subject, we are organizing State level Bio-Genius Competition organized by Eco-Prithvi club, Department of Zoology, Rajaram College Kolhapur, in collaboration with Department of Zoology, Government Vidarbha Institute of Science and Humanities (Autonomous), Amravati, on 14<sup>th</sup> March, 2023 at 12:00 pm. Kindly send at least 10 UG/PG students for participation in this Competition.

  
Head, Department of Zoology  
Rajaram College Kolhapur  
Head of the Zoology Department  
Rajaram College Kolhapur



महाराष्ट्र MAHARASHTRA

2022

13AA 038419

20 JAN 2023

मुद्राक विक्री नाद वही अनुक्रम ६२९७  
मुद्राक विक्री घणान्याचे नाव शिरासु शांताद नाथरे  
पत्ता एक एक की बोर कोल्हापूर  
हस्ते असल्यास एक की बोर कोल्हापूर  
दस्तावा बोर कोल्हापूर  
मुद्राक कोल्हापूर  
मुद्राक कोल्हापूर



12 JAN 2023

STAMP HEAD OFFICE  
TREASURY OFFICE  
KOLHAPUR (M.S.)

*[Signature]*

*[Signature]*

राहुल ह. भोसले  
मुद्राक विक्री ला.नं. 74/200  
शंकरा पेठ, कोल्हापूर  
नं 2601077

### Memorandum of Understanding

This MoU was signed and came in to existence on 30/01/2023

BETWEEN

Department of Zoology, Rajaram College Kolhapur, Vidyanagar,  
Tal. Karveer, Dist. - Kolhapur




1. This MoU may be amended, renewed and/or terminated by mutual written agreement of both the institutions at any time.
2. Either institution shall have the right to terminate the MoU upon 60 days of prior written notice to the other institute.


### Coordinators

Heads of both institutions will designate persons who have responsibility of coordination and implementation of this MoU.

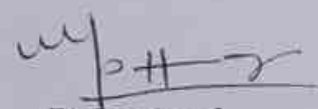
On Behalf of  
**Rajaram College, Kolhapur**

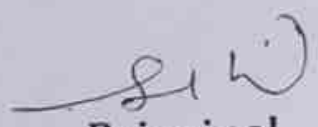
On Behalf of  
**Shri. Yashwantrao Patil Vidnyan,  
Mahavidyalaya, Solankur**

  
**Co-ordinator**  
(Dr. Lata P. Bhopale)  
Head of the Zoology Department  
**Rajaram College, Kolhapur**

  
**Co-ordinator**  
(Dr. Bharati S. Wali)  
**Head**  
Department of Zoology  
**Shri. Yashwantrao Patil Science  
College, Solankur.**



  
**Principal**  
(Dr. Y. C. Attar)  
**Principal**  
**Rajaram College, Kolhapur**

  
**Principal**  
(Dr. Gurunath Chougale)  
**PRINCIPAL**  
**Shri Yashwantrao Patil Science College,**  
**Solankur, Tal. Radhanagari, Dist. Kolhapur.**

महाराष्ट्र MAHARASHTRA

दि - 1 NOV 2022

2022

वि.क्र. ६५५७८

मुद्रांक शुल्क रक्कम १००

दस्त नोंद करणार आहे का - होय/नाही, नोंदणी होणारे दु.नि.कार्या-

दस्ताचा प्रकार - कारण - बँक/कर्ज/हमीपत्र/करारपत्र/प्रतिज्ञापत्र/व.मु./पार्टनरशिप/संमतीपत्र, संचकारपत्र

मुद्रांक विकत घेणाऱ्याचे नांव - प्रा. ग्या. न्यू कॉलेज कोल्हापूर

दुसऱ्या पक्षकाराचे नांव व पत्ता -

हस्ते नांव व पत्ता - प्रा. ग्या. न्यू कॉलेज

मुद्रांक विक्रत्याची सही -

परवाना तसेच मुद्रांक विक्रीचे ठिकाण व पत्ता - सौ. जयश्री महेश धाडणकर (स्टॅम्प व्हेंडर)

मुद्रांक विकत घेणाऱ्याची सही - लाय. क्र. ७/२००३ कोड नं. २६०१०३०

२४६८'ए' वॉर्ड, वरुणतीर्थ वेश, कोल्हापूर.



27 OCT 2022

STAMP HEAD CLERK  
TREASURY OFFICE  
KOLHAPUR. (M.S.)

MEMORANDUM OF UNDERSTANDING



The New College, Kolhapur &



Shri Yashwantrao Patil Science College, Solankur





**The New College, Kolhapur**

**and**



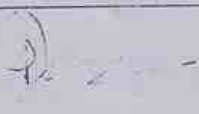
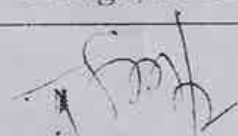

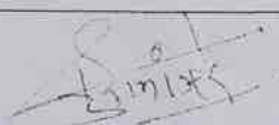


**Shri Yashwantrao Patil Science College, Solankur**

MoU is hereby signed on 20<sup>th</sup> October 2022 between Department of Physics, The New College, Kolhapur (First Party) and Department of Physics, Shri Yashwantrao Patil Science College, Solankur (Second Party). Both the parties have discussed in detail the areas of co-operation, collaboration and mutually agreed to make the MoU. Now it is agreed by and between both the parties with the following terms and conditions.

**Terms and Conditions:**

1. Both the colleges will allow duty leave to the faculty wherever invited.
2. The remuneration, T.A. and D.A. should be borne by the mother institute.
3. The college can make the exchange of students and teachers.
4. The teachers and students will visit each other's institute and share their knowledge.
5. The teachers and students will visit the laboratories, attend lectures and make the discussions with teachers to enhance their knowledge.

6. Both the parties will extend their facilities to each other in the areas of student exchange, guest lectures, study tours, instrument training and research laboratory to the students as well as teachers.
7. Both the colleges will organize conference, seminars, workshops etc. in collaboration.
8. No rental charges or any other incidental charges, unless mentioned, shall be paid by both the parties for using/sharing the above-mentioned facilities of each other.
9. The MoU will be valid for a period of five years starting from the date of signing this agreement and may be renewed for a further period of **five years through mutual consent of parties.**
10. This MoU may be terminated by either side by giving a three months' notice to that effect in writing.

Party	First Party	Second Party
Institute	The New College, Kolhapur	ShriYashwantraoPatil Science College, Solankur
Signature		
Name & Designation	Dr. Pradip D. Kamble Head, Department of Physics	Dr. Rahul B. Patil Head, Department of Physics
Signature		
Name & Designation	Dr. V. M. Patil Principal	Dr. S. A. Manjare Principal
Seal		



# Telescope Making Workshop

(Hands on Training Program)

## Activity Report

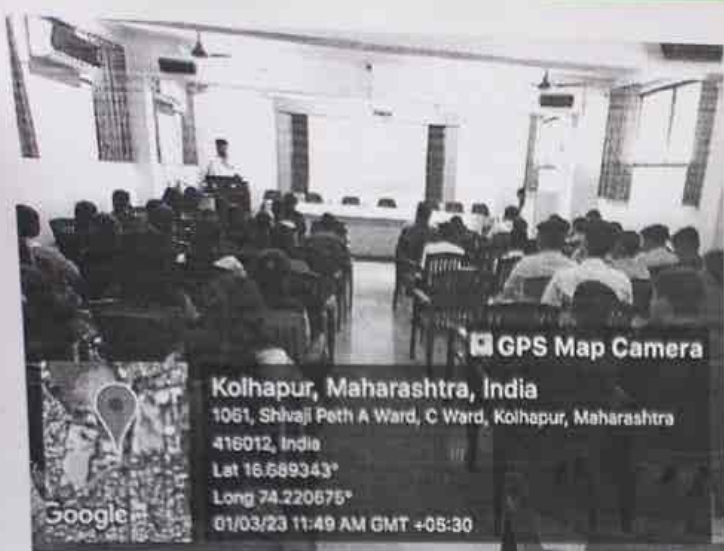
Department of Physics, Shri Yashwantrao Patil Science College Solankur in collaboration with The New College, Kolhapur had organized and successfully conducted Telescope Making Workshop under MoU Activity on 01/03/2023 at conference hall of New College, Kolhapur. The workshop was specially designed for school children to enrich their knowledge about instrumental and observational astronomy.

The students were introduced the theoretical background of telescopes, their types, their mounts, steps involving in the process of telescope making through PPT presentation and trained them to built telescope by their own. 13 students were participated from kolhapur and sangali district. After assembling, participants were also trained to find and focus the celestial objects.

Dr. A. A. Jatrakar has worked as trainer for the workshop and guided students. As, it was the MoU activity, Teaching staff of Physics department of both colleges were actively involved in the workshop.

Dr. R. B. Patil, Dr. S. H. Tamboli, Dr. P.D. Kamble, Dr. A. A. Kalgonda, Mrs. S. S. Pawar, Mr. S. K. Sutar, Principal Dr. G. G. Chougale, Principal Dr. V. M. Patil have supported and provided all the necessary facilities.









कोल्हापूर : न्यू कॉलेजमध्ये खगोलीय दुर्बीण निर्मिती कार्यशाळेत उपस्थित विद्यार्थी, पालक व शिक्षक.

# न्यू कॉलेजमध्ये खगोलीय दुर्बीण निर्मिती कार्यशाळा

कोल्हापूर, ता. ३ : सोळांकूर येथील श्री यशवंतराव पाटील विज्ञान महाविद्यालय आणि न्यू कॉलेज यांच्या भौतिकशास्त्र विभागांच्या संयुक्त विद्यमाने खगोलीय दुर्बीण निर्मिती कार्यशाळा झाली.

डॉ. अविराज जत्राटकर यांनी मार्गदर्शन केले. दुर्बीणी तयार करण्यासाठी आवश्यक असणारे साहित्य

निवडण्यापासून ते त्यापासून दुर्बीण तयार करण्यापर्यंत सर्व प्रशिक्षण विद्यार्थ्यांना देण्यात आले. प्राचार्य डॉ. जी. जी. चौगले, प्राचार्य डॉ. व्ही. एम. पाटील, डॉ. राहुल पाटील, डॉ. सिकंदर तांबोळी, डॉ. ए. ए. कलगोंडा, डॉ. प्रदीप कांबळे, एस. के. सुतार उपस्थित होते. प्रास्ताविक स्वप्नाली पवार यांनी केले. रेश्मा



HIGYAN SEVA TVAGH

Shri Vyanknath Shikshan Prasarak Mandal's

**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR**

Taluka: Radhanagari, District: Kolhapur (Maharashtra, India), Pincode: 416212



Email: [spvmsolankur@gmail.com](mailto:spvmsolankur@gmail.com) / [spvms.436.cla@gmail.com](mailto:spvms.436.cla@gmail.com)

Website: [www.spse.ac.in](http://www.spse.ac.in)

Affiliated to Shivaji University Kolhapur, MS, India | Accredited by NAAC with 'B' Grade (CGPA-2.14)

Shri. A. V. Patil  
Secretary

Shri. R. Y. Patil  
President

**LINKAGE**



**Shri Yashwantrao Patil Science College Solankur,**

**&**

**Karmveer Hire College, Gargoti**


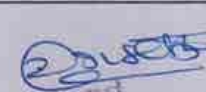
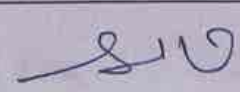
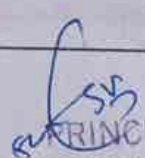


Linkage is signed on **22<sup>nd</sup> April 2022** between **Shri Yashwantrao Patil Science College Solankur**, (First Party) and **Karmveer Hire College, Gargoti** (Second Party). It is agreed by First party and Second party to impart student exchange, guest lectures, study tours, instrument training and research to the students and to organize conference/seminars jointly. Both the parties have discussed in detail the areas of co-operation and mutually agreed to make the linkage. Now it is agreed by and between both the parties with the following terms and conditions.



## Terms and Conditions:

- 1) Both the parties will extend their facilities to each other in the areas of student exchange, guest lectures, study tours, instrument training and research to the students and to organize conference/seminars jointly.
- 2) No rental charges or any other incidental charges, unless mentioned, shall be paid by both the parties for using the infrastructure facilities of each other.
- 3) The linkage will be valid for a period of five years starting from the date of signing this agreement and may be renewed for a further period of five years through mutual consent of parties.
- 4) This linkage may be terminated by either side by giving a three months notice to that effect in writing.

In witness whereof, the parties here have set this hands on the **22<sup>nd</sup> April 2022**

Party	First Party	Second Party
Institute	Shri Yashwantrao Patil Science College Solankur,	Karmveer Hire College, Gargoti
Signature		
Name & Designation	Dr. S.V. Madhale Head, Department of Botany	Dr. S.A. Vhanalkar Head, Department of Zoology
Signature		
Name & Designation	Dr. G.G. Chougale Principal Shri Yashwantrao Patil Science College, Solankur Taluka, Kolhapur, Dist. Kolhapur.	Dr. P.B. Patil Principal Karmaveer Hire Arts, Science, Commerce & Education College Gargoti, Dist. Kolhapur.
Seal		



Shri Vyanknath Shikshan Prasarak Mandal's

**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR**

Taluka: Radhanagari, District: Kolhapur (Maharashtra, India), Pincode: 416212

Email: [ypmsolankur@gmail.com](mailto:ypmsolankur@gmail.com) - [ypmsv436cl@gmail.com](mailto:ypmsv436cl@gmail.com)Website: [www.ypsc.ac.in](http://www.ypsc.ac.in)

Affiliated to Shivaji University Kolhapur, MS, India | Accredited by NAAC with 'B' Grade (CGPA-2.14)

Shri. A. V. Patil  
SecretaryShri. R. V. Patil  
President**LINKAGE****Shri Yashwantrao Patil Science College Solankur,**

&amp;

**M.H.Sinde Mahavidyalya, Tisangi**

Linkage is signed on 13<sup>th</sup> May 2022 between Shri Yashwantrao Patil Science College Solankur, (First Party) and M.H.Sinde Mahavidyalya, Tisangi (Second Party). It is agreed by First party and Second party to impart student exchange, guest lectures, study tours, instrument training and research to the students and to organize conference/seminars jointly. Both the parties have discussed in detail the areas of co-operation and mutually agreed to make the linkage. Now it is agreed by and between both the parties with the following terms and conditions.


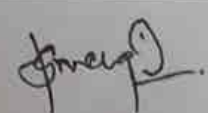

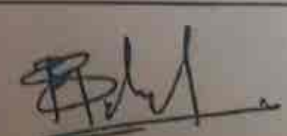


**Terms and Conditions:**

- 1) Both the parties will extend their facilities to each other in the areas of student exchange, guest lectures, study tours, instrument training and research to the students and to organize conference/seminars jointly.



- 2) No rental charges or any other incidental charges, unless mentioned, shall be paid by both the parties for using the infrastructure facilities of each other.
- 3) The linkage will be valid for a period of five years starting from the date of signing this agreement and may be renewed for a further period of five years through mutual consent of parties.
- 4) This linkage may be terminated by either side by giving a three months notice to that effect in writing.

In witness whereof, the parties here have set this hands on the **13<sup>th</sup> May 2022.**

Party	First Party	Second Party
Institute	Shri Yashwantrao Patil Science College Solankur,	M.H.Sinde Mahavidyalya, Tisangi
Signature		
Name & Designation	Dr. S.V. Madhale Head, Department of Botany	Dr. S.K. Mengane Head, Department of Botany
Signature		
Name & Designation	Dr. G.G. Chougale Principal Shri Yashwantrao Patil Science College Solankur, Dist. Kolhapur	Dr. B.S. Padwal Principal M.H. Sinde Mahavidyalya Tisangi, Dist. Kolhapur
Seal		

स्थापना: १९९४

नैक पुनर्मूल्यांकन :B++ (सीजीपीए-2.१)



"सर्वांग सुंदर जीवन यासाठी शिक्षण"  
ज्ञानसाधना शिक्षण प्रसारक मंडळ, निवडे संचलित

**म.ह.शिंदे महाविद्यालय, तिसंगी**

ता. गगनबावडा, जि. कोल्हापूर ४९६ २०६

( शिवाजी विद्यापीठ, कोल्हापूर संलग्नीत )

वेब साईट : [www.mhstcollege.in](http://www.mhstcollege.in)

ई मेल आयडी : [mhstisangi@rediffmail.com](mailto:mhstisangi@rediffmail.com)

प्र. प्राचार्य डॉ. बी. एस. पडवळ

एम. कॉम. . एम. लिब. अँड. इन्फ. सायन्स. . एम. फिल. . पीएचडी

फोन ऑफिस : (०२३२६) २५४९४८

मोबाईल: ९४२९९९९२५

जा. क्र. एमएचएसटी / २०२२-२३ / ५७

दिनांक: / /

13 MAY 2022

To,

**Dr. S. V. Madhale,**

Head Department of Botany,

Shri. Yashwantrao Patil Science Mahavidyalaya,

Solankur, Kolhapur.

**Subject:** Letter of Appreciation.

Dear Sir,

We are really grateful to you for giving a lecture on the topic "**Lipid Metabolism**" to our students, on 13<sup>th</sup> May 2022 organized by Department of Botany under faculty exchange program. Our students are enlightened by your guidance. This will be helpful to all students for their career development. We thank you for extending cooperation.

Thanking you,

Yours faithfully,

H.C. PRINCIPAL

M. H. Shinde Mahavidyalaya, Tisangi  
Tal. Gaganbavda, Dist. Kolhapur





# SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR

Taluka: Radhanagari, District: Kolhapur (Maharashtra, India). Pincode: 416212

Email: [ypmsolankur@gmail.com](mailto:ypmsolankur@gmail.com) / [ypms.436.ela@gmail.com](mailto:ypms.436.ela@gmail.com)

Website: [www.ypsc.ac.in](http://www.ypsc.ac.in)

Affiliated to Shivaji University Kolhapur, MS, India | Accredited by NAAC with 'B' Grade (CGPA=2.14)



Shri. A. Y. Patil  
Secretary

Shri. R. Y. Patil  
President

**LINKAGE**



## Shri Yashwantrao Patil Science College Solankur, & Devchand College, Arjunnagar

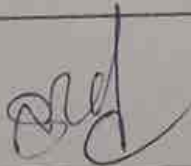
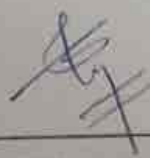

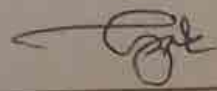


Linkage is signed on **09<sup>th</sup> June 2022** between **Shri Yashwantrao Patil Science College Solankur**, (First Party) and **Devchand College, Arjunnagar** (Second Party). It is agreed by First party and Second party to impart student exchange, guest lectures, study tours, instrument training and research to the students and to organize conference/seminars jointly. Both the parties have discussed in detail the areas of co-operation and mutually agreed to make the linkage. Now it is agreed by and between both the parties with the following terms and conditions.

### Terms and Conditions:

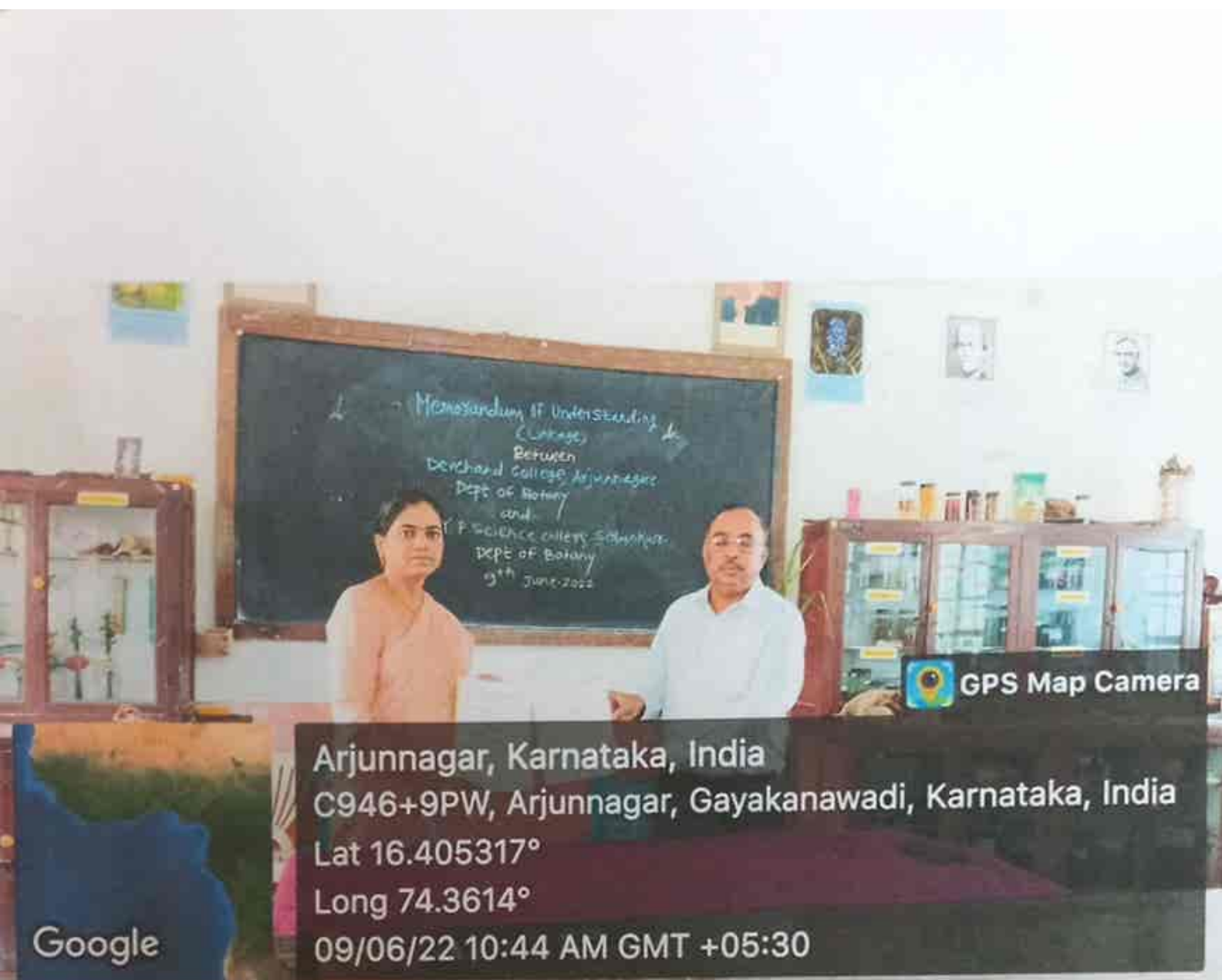
- 1) Both the parties will extend their facilities to each other in the areas of student exchange, guest lectures, study tours, instrument training and conference/seminars jointly.

- 2) No rental charges or any other incidental charges, unless mentioned, shall be paid by both the parties for using the infrastructure facilities of each other.
- 3) The linkage will be valid for a period of five years starting from the date of signing this agreement and may be renewed for a further period of five years through mutual consent of parties.
- 4) This linkage may be terminated by either side by giving a three months notice to that effect in writing.

In witness whereof, the parties here have set this hands on the 09<sup>th</sup> June 2022.

Party	First Party	Second Party
Institute	Shri Yashwantrao Patil Science College Solankur.	Devchand College, Arjunnagar
Signature		
Name & Designation	Dr. S. V. Madhale Head, Department of Botany	Dr. P. D. Shirganve. Head, Department of Botany
Signature		
Name & Designation	Dr. G. G. Chougale Principal - PRINCIPAL Shri Yashwantrao Patil Science College, Solankur, Tal. Radhanagari, Dist. Kolhapur.	Dr. P. P. Shah. Principal PRINCIPAL DEVCHAND COLLEGE, ARJUNNAGAR.
Seal		





॥ GYAN SEVA TVAG ॥

Shri Vyanknath Shikshan Prasarak Mandal's

# SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR

Taluka: Radhanagari, District: Kolhapur (Maharashtra, India). Pincode: 416212

Email: [ypvmsolankur@gmail.com](mailto:ypvmsolankur@gmail.com) / [ypvms.436.ci@gmail.com](mailto:ypvms.436.ci@gmail.com)

Website: [www.ypsc.ac.in](http://www.ypsc.ac.in)

Affiliated to Shivaji University Kolhapur, MS, India | Accredited by NAAC with 'B' Grade (CGPA=2.14)

Shri. A. Y. Patil

Secretary

Shri. R. Y. Patil

President

**LINKAGE**



**Shri Yashwantrao Patil Science College Solankur,**

**&**

**Biobritte Agro Solutions Private Limited, Jayasingpur**


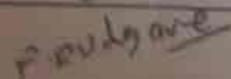


Linkage is signed on **04<sup>th</sup> November 2022** between **Shri Yashwantrao Patil Science College Solankur, (First Party)** and **Biobritte Agro Solutions Private Limited, Jayasingpur (Second Party)**. It is agreed by First party and Second party to impart student exchange, guest lectures, study tours, instrument training and research to the students and to organize conference/seminars jointly. Both the parties have discussed in detail the areas of co-operation and mutually agreed to make the linkage. Now it is agreed by and between both the parties with the following terms and conditions.



### Terms and Conditions:

- 1) Both the parties will extend their facilities to each other in the areas of student exchange, guest lectures, study tours, instrument training and research to the students and to organize conference/seminars jointly.
- 2) No rental charges or any other incidental charges, unless mentioned, shall be paid by both the parties for using the infrastructure facilities of each other.
- 3) The linkage will be valid for a period of five years starting from the date of signing this agreement and may be renewed for a further period of five years through mutual consent of parties.
- 4) This linkage may be terminated by either side by giving a three months' notice in that effect in writing.

In witness whereof, the parties here have set this hands on the 04<sup>th</sup> November 2022

Party	First Party	Second Party
Institute	Shri Yashwantrao Patil Science College Solankur,	Biobritte Agro Solutions Private Limited, Jayasingpur
Signature		P. Udgave
Name & Designation	Dr. S. V. Madhale Head, Department of Botany	Parimal Udgave Prop. Biobritte Agro Solutions Private Limited, Jayasingpur (MH) For Biobritte Agro Solutions Pvt. Ltd.
Signature		 Director
Name & Designation	Dr. G. G. Chougale Principal	Parimal Udgave Prop. Biobritte Agro Solutions Private Limited, Jayasingpur (MH)
Seal		

॥ GYAN SEVA TYAG ॥

SHRI VYANKNATH SHIKSHAN PRASARAK MANDAL'S



# SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR



(Affiliated to Shivaji University Kolhapur, MS, India; Accredited by NAAC with 'B' Grade (CGPA=2.14))

## DEPARTMENT OF BOTANY

*is organizing*

State Level Workshop and Hands on  
Training of

## MUSHROOM CULTIVATION AND POST HARVEST PROCESSING

Date: 4<sup>th</sup> November, 2022

### RESOURCE PERSON

**Mr. Parimal Ramesh Udgave**

Founder and Director,  
Biobrite Agro Solutions Private Limited, Kolhapur

### CONVENERS



**Dr. M. S. Sutare**  
Assistant Professor,  
Department of Botany



**Dr. S. P. Dorugade**  
Assistant Professor,  
Department of Botany



**Hon. Shri. A. Y. Patil**  
(Founder,  
SVSPM, Solankur)



**Hon. Shri. R. Y. Patil**  
Chairman,  
SVSPM, Solankur)



**Hon. Prof. S. A. Manjare**  
Principal,  
YPSC, Solankur



**Dr. S. V. Madhale**  
IQAC Co-ordinator,  
Head, Department of Botany

### Registration Charges:

Online: Rs. 100 only

Offline: Rs. 150 Only

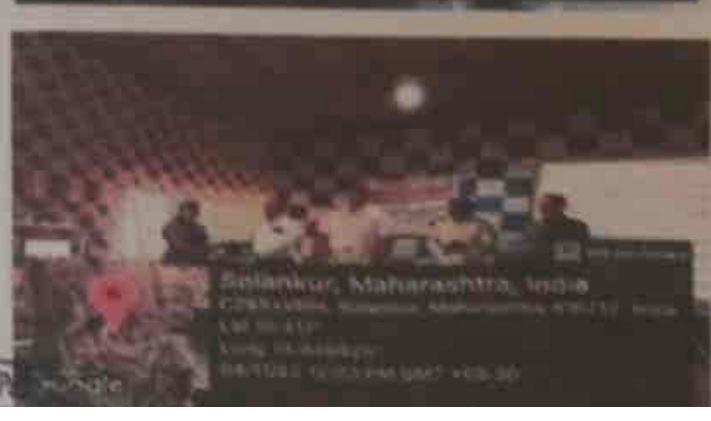
### Account Details:

Account Holder: Dr. Santosh Vasant Madhale  
Bank Name: Bank of Baroda  
Bank Account Number: 20778100002852  
IFSC: BARB0501296 (last letter is zero)

### Scan to Pay









SHRI YASHWANTRAO PATIL

Shri Yashwantrao Patil Science College, Solankur

## SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR

Tajika, Radhanagar, District, Kolhapur (Maharashtra, India) Pincode: 416212

Contact: 020-26666666, 020-26666667, 020-26666668

Website: www.spc.ac.in

Affiliated to Savitribai Phule Mahavidyalaya, Tajika, Kolhapur. UGC Approved by NMAC, Kolhapur. UGC No. 100/2015-2016

Shri. A. V. Patil  
Secretary

Shri. R. V. Patil  
President

LINKAGE



**Shri Yashwantrao Patil Science College Solankur,**

**&**

**Bhogawati Mahavidyalaya, Kurukali**

Linkage is signed on **10<sup>th</sup> Aug 2022** between **Shri Yashwantrao Patil Science College, Solankur. (First Party)** and **Bhogawati Mahavidyalaya, Kurukali**

(Second Party). It is agreed by First party and Second party to impart student exchange, guest lectures, study tours, instrument training and research to the students and to organize conference/seminars jointly. Both the parties have discussed in detail the areas of co-operation and mutually agreed to make the linkage. Now it is agreed by and between both the parties with the following terms and conditions.

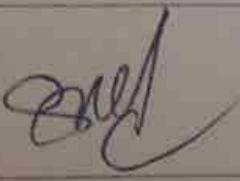

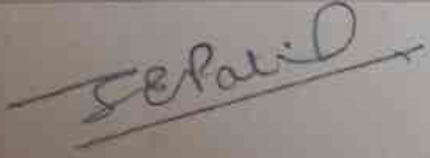

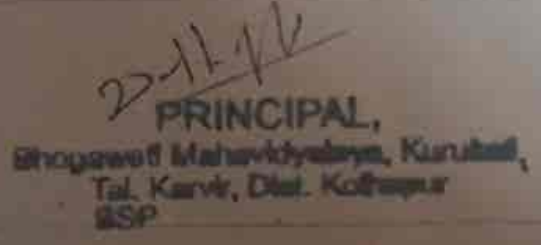
### **Terms and Conditions:**

- 1) Both the parties will extend their facilities to each other in the areas of student exchange, guest lectures, study tours, instrument training and research to the students and to organize conference/seminars jointly.



- 2) No rental charges or any other incidental charges, unless mentioned, shall be paid by both the parties for using the infrastructure facilities of each other.
- 3) The linkage will be valid for a period of five years starting from the date of signing this agreement and may be renewed for a further period of five years through mutual consent of parties.
- 4) This linkage may be terminated by either side by giving a three months' notice to that effect in writing.

In witness where of, the parties here have set this hands on the 10<sup>th</sup> Aug 2022.

Party	First Party	Second Party
Institute	<b>Shri Yashwantrao Patil Science College, Solankur.</b>	<b>Bhogawati Mahavidyalya, Kurukali.</b>
Signature		
Name & Designation	Dr. S.V. Madhale Head, Department of Botany	Dr. U. H. Patil Head, Department of Botany
Signature		
Name & Designation	Dr. G. G. Chougale Principal	Dr. S.A. Chougale Principal
Seal		



Guest Lecture by Dr. U. H. Patil ( Career Opprtunities) and Dr. . R. G. Kamble (World Environment Day)



C28X+QJF, Solankur, Maharashtra 416212, India

Latitude  
16.4170101°

Local 01:04:27 PM  
GMT 07:34:27 AM

Note : Guest Visit

Longitude  
74.0490043°

Altitude 576 meters  
Saturday, 17.06.2023



**MEMORANDUM of UNDERSTANDING (MoU)**

**INTERCOLLEGE EXCHANGE PROGRAM BETWEEN  
SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR  
AND  
BHOGAWATI MAHAVIDYALAYA, KURUKALI**

Shri Yashwantrao Patil Science College, Solankur, Tal : Radhanagari, Dist- Kolhapur and Bhogawati Mahavidyalay, Kurukali, Tal- Karvir, Dist- Kolhapur agree to co-operate on intercollege exchange programs based on the principles of reciprocity.

This Memorandum of Understanding (MoU) encourages the exchange of faculty, scholars and academic information and materials in the belief that research and educational processes at both the colleges will be enhanced and that mutual understanding between their respective faculty and scholars will be increased by the establishment of such exchanges.

1. Colleges agree to promote the following exchange activities based on their respective academic and educational needs:
  - a. Exchange of faculty and scholar (Professor, Associate professor, Assistant professor and researchers)
  - b. Exchange of academic information and materials.
  - c. Exchange of periodical academic publication.
  - d. Organisation of joint research programs
  - e. Other academic exchanges agreed to by both colleges
2. The implementation of each specific exchange based on this MoU shall be separately negotiated and determined by both colleges. Efforts shall be made by both sides to find financial sources for carrying out the exchange programs.

[...continue on next page] 1/2

**TRUE COPY**

*[Signature]*


For College,  
Solankur.




3. Nothing shall diminish the full autonomy of either institution, nor will any constraints or financial obligation be imposed by either upon the other in carrying out the MoU.
4. This agreement shall take effect from the date of the latest signature below and will be valid for the period of five years. Thereafter, it shall be automatically renewed for subsequent five-year periods with mutual consent. It is understood that either institution may terminate the agreement at any time, although such action will only be taken after mutual consultation in order to avoid any inconvenience to either party. Should any revision or modification become necessary, a written amendment signed by both parties will be required.

For Shri Yashwantrao Patil Science  
College, Solankar

For Bhogawati Mahavidyalay, Kurukali, Tal-  
Karvir


  
PRINCIPAL  
Shri Yashwantrao Patil  
Science College, Solankar  
Date

  
Principal,  
Bhogawati Mahavidyalaya, Kurukali,  
Tal. Karvir, Dist. Kolhapur

Date



TRUE COPY

  
PRINCIPAL  
Shri Yashwantrao Patil Science College,  
Solankar, Tal. Karvir, Dist. Kolhapur.



# Shri Yashwantrao Patil Science College, Solankur.

Tal. Radhanagari, Dist. Kolhapur - 416 212. Ph.: (02321) 232561

E-mail : ypvmsolankur@gmail.com / ypvms436.digunishivaji.ac.in

Website : www.ypsc.ac.in

Accredited by NAAC With Grade 'B' (CGPA 2.14) | Affiliated to Shivaji University, Kolhapur

Principal: \_\_\_\_\_ Secretary: \_\_\_\_\_  
President: \_\_\_\_\_

V.M.S./ 7/4/2020 -2021

Date: 6-5-21

## MEMORANDUM of UNDERSTANDING (MoU)

### INTERCOLLEGE EXCHANGE PROGRAM BETWEEN SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR AND DEVCHAND COLLEGE, ARJUNNAGAR

Shri Yashwantrao Patil Science College, Solankur, Tal - Radhanagari, Dist- Kolhapur and Devchand College, Arjunnagar, Tal- Kagal, Dist- Kolhapur agree to operate on intercollege exchange programs based on the principles of reciprocity.

This Memorandum of Understanding (MoU) encourages the exchange of faculty, scholars and academic information and materials in the belief that research and educational processes at both the colleges will be enhanced and mutual understanding between their respective faculty and scholars will be increased by the establishment of such exchanges.

- Colleges agree to promote the following exchange activities based on their respective academic and educational needs:
  - Exchange of faculty and scholar (Professor, Associate professor, Assistant professor and researchers)
  - Exchange of academic information and materials.
  - Exchange of periodical academic publication.
  - Organisation of joint research programs
  - Other academic exchanges agreed to by both colleges
- The implementation of each specific exchange based on this MoU shall be separately negotiated and determined by both colleges. Efforts shall be made by both sides to find financial sources for carrying out the exchange programs.

[...continue on next page] 1/2

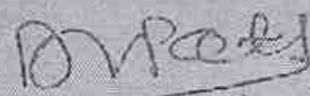


3. Nothing shall diminish the full autonomy of either institution, nor will any constraints or financial obligation be imposed by either upon the other in carrying out the MoU.
4. This agreement shall take effect from the date of the latest signature below and will be valid for the period of five years. Thereafter, it shall be automatically renewed for subsequent five-year periods with mutual consent. It is understood that either institution may terminate the agreement at any time, although such action will only be taken after mutual consultation in order to avoid any inconvenience to either party. Should any revision or modification become necessary, a written amendment signed by both parties will be required.

For Shri Yashwantrao Patil Science  
College, Solankur

For Bhogawati Mahavidyalay, Kurukali, Tal-  
Karvir

  
PRINCIPAL  
Shri Yashwantrao Patil  
Science College, Solankur  
Date

  
Principal,  
Bhogawati Mahavidyalaya, Kurukali,  
Tal. Karvir, Dist. Kolhapur

Date



TRUE COPY

  
PRINCIPAL  
Shri Yashwantrao Patil Science College,  
Solankur, Tal. Karvir, Dist. Kolhapur



# **Memorandum of Understanding**

**Between**

**Department of Zoology,**

**Shri Vijaysinha Yadav College, Peth Vadgaon,**

**Tal – Hatkanangale, Dist. – Kolhapur**

**And**

**Department of Zoology,**

**Shri. Yashwantrao Patil Vidnyan Mahavidyalaya,**

**Solankur**

**Tal – Panhala Dist. – Kolhapur**

**January 2021**



॥ प्रज्वलितो ज्ञानमय प्रदीपः ॥

UGC (2F & 12B) Dt. 16-8-2011  
Perm. Aff. No. SU/AFFI/T-2/UMK/4818 Dt. 15-7-2010

Shri. Shahu Shikshan Prasarak Seva Mandal, Peth Vadgaon's

# SHRI. VIJAYSINHA YADAV COLLEGE

## PETH VADGAON

Tal. Hatkanangale Dist. Kolhapur (Maharashtra) 416 112 ☎ (0230) 2471599

Affiliated to Shivaji University, Kolhapur



vyadavcollege@rediffmail.com

www.vympv.ac.in

President :

ri. Gulabrao Pol  
I.P.S.

Secretary :

Sou. Vidya Gulabrao Pol  
M.A., B.Ed.

Vice President :

Smt. Vijayadevi V. Yadav

Principal :

Dr. Vijaya R. Chavan  
M.Sc., Ph.D.

F. No. VYMP/ F-36/2020-21/426

Date : 05/01/2021

To,  
The Principal,  
Shri. Yashwantrao Patil Vidnyan Mahavidyalaya,  
Solankur.

Subject: - Signing of Memorandum of Understanding

Dear Sir,

With reference to above mentioned subject, as per the telephonic conversation with Dr. Bharati S. Wali, Head, Dept. of Zoology, Shri. Yashwantrao Patil Vidnyan Mahavidyalaya, Solankur I am sending herewith duly Signed MoU of our College with your College. Kindly accept the same and send us a duly signed copy of MoU from your side for our reference.

Thanking you



## Memorandum of Understanding

This MoU was signed and came in to existence on 11/01/2021

### BETWEEN

Department of Zoology, Shri Vijaysinha Yadav College, Peth Vadgaon, Tal -  
Hatkanangale, Dist. - Kolhapur

And

Department of Zoology, Shri. Yashwantrao Patil Vidnyan Mahavidyalaya,  
Solankur, Tal - Radhanagari Dist. - Kolhapur

### Objectives of MoU

6. To promote and enhance academic interest & establish quality LMS.
7. To provide advice for implementation of quality education.
8. To encourage bright students of both colleges for excellence in their subjects and for post graduation.
9. To conduct research projects under joint venture.
10. To imbibe scientific attitude among the students.

### Proposed model of Collaboration

6. Exchange of faculty and students for sharing knowledge.
7. Guidance to the students for research projects.
8. Organization of Seminars, Conferences, Workshops and Guest lectures under joint Venture.
9. Availability of laboratory instruments and departmental library to the faculty and students of both colleges.
10. Organization of other academic and extension activities.

### Duration of MoU

This MoU unless extended by mutual written consent of both institutes, **shall expire in FIVE YEARS** after the effective date specified in the opening paragraph. However, on review, the MoU shall be extended for **ANOTHER FIVE YEARS** by mutual consent.

## Terms and Conditions

3. This MoU may be amended, renewed and/or terminated by mutual written agreement of both the institutions at any time.
4. Either institution shall have the right to terminate the MoU upon 60 days of prior written notice to the other institute.

## Coordinators

Heads of both institutions will designate persons who have responsibility of coordination and implementation of this MoU.

On Behalf of

**Shri. Yashwantrao Patil Vidnyan,  
Mahavidyalaya, Solankur**



**Coordinator**

(Dr. Bharati S. Wali)

**Department of  
Zoology**



**Principal**

(Dr. Gurunath S. Chougale)

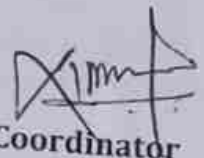
**PRINCIPAL**

**Shri. Yashwantrao Patil  
Science College, Solankur**



On Behalf of

**Shri. Vijaysinha Yadav College  
Peth Vadgaon**



**Coordinator**

(Dr. Rajaram H. Atigre)

**Head  
Department of Zoology  
Shri. Vijaysinha Yadav College  
Peth Vadgaon, Dist. Kolhapur.**



**Principal**

(Dr. Vijaya R. Chavan)

**Principal**

**Shri. Vijaysinha Yadav College  
Peth Vadgaon, Dist. Kolhapur.**







॥ Dayan - Seva - Tyag ॥

Shri Vyanknath Shikshan Prasarak Mandal's

# Shri Yashwantrao Patil Science College, Solankur

Tal. Radhanagari, Dist. Kolhapur - 416212, Phone - (02321) 232561

Email: ypvmsolankur@gmail.com / ypvms436.ci@unishivaji.ac.in

Website: www.ypsc.ac.in

Accredited by NAAC with 'B' grade (CGPA 2.14) | Affiliated to Shivaji University, Kolhapur



**Shri. R. Y. Patil**  
President

**Shri. A. Y. Patil**  
Secretary

Ref. No. **Y.P.V.M.S./ 23 / 2020 - 2021**

Date **28/09/2020**

The Principal,  
Swami Vivekanand Senior College,  
Mantha, Dist. Jalna (Maharashtra)

**Subject:** Memorandum of Understanding (MoU) between Department of Botany, Shri Yashwantrao Patil Science College, Solankur Tal Radhanagari Dist Kolhapur and Department of Botany Swami Vivekanand Senior College, Mantha Dist Jalna

Respected Sir,

With reference to the captioned subject, we Department of Botany, Sri Yashwantrao Patil Science College, Solankur Tal. Radhanagari Dist. Kolhapur are eager to strengthen our academic ties with your esteemed institute. The Yashwantrao Patil Science College, Solankur is the only Science college in Radhanagari taluka established in 2009. The college accredited with 'B' Grade (2.14 CGPA). The college houses full-fledged departments viz., Botany, Zoology, Physics, Chemistry, Mathematics and Statistic with well qualified and post doctorate staff.

We trust that our academic ties with Swami Vivekanand Senior College, Mantha, will benefit the research as well as plant propagation activities. I therefore request you to consider our request.

Thanking you.



Yours Sincerely  
Principal

Sri. Yashwantrao Patil Science College,  
Solankur Tal Radhanagari



Marathwada Sarvodaya Shikshan Prasarak Mandal's Partur  
**SWAMI VIVEKANAND SENIOR COLLEGE, MANTHA**

Tq. Mantha Dist. Jalna 431504  
(NAAC Re-Accreditation "B" UGC 2 F & 12 (B))

● Ph : (02484) 270238 Fax 270338 ● Website - www.svcmantha.in ● E-mail - swamicollege@gmail.com

**Ashabai Babasaheb Akat**  
President

**Dr. Bharat D. Khandare**  
Principal

ut Words : SVC/2020-21/378.

Date : 25/09/20

To,  
The Principal,  
Shri. Yashwantrao Patil Science  
College Solankur, Tq. Radhanagari,  
Dist. Kolhapur- 416212.  
(M.S) India.

**Subject:** Letter of intend for Memorandum of Understanding (MOU).

Respected Sir,

With reference to above cited subject we are happy to tie Memorandum of Understanding (MoU) with esteemed Institute Shri. Yashwantrao Patil Science College Solankur Tq. Radhanagari, Dist. Kolhapur for academic and research purpose.

We can share our expertise, research ideas and other related aspects in terms of research.

Thank you.



Principal

**Principal**

**Swami Vivekanand Sr. College**  
**MANTHA, Dist. Jalna,**



# Shri Yashwantrao Patil Science College, Solankur

Tal. Radhanagari, Dist. Kolhapur - 416212, Phone - (02321) 232561

Email: ypvmsolankur@gmail.com / ypvms416@unishivaji.ac.in

Website: www.ypsc.ac.in

Accredited by NAAC with 'B' grade (CGPA 2.14) | Affiliated to Shivaji University, Kolhapur

**Shri. R. V. Patil**  
President

**Shri. A. Y. Patil**  
Secretary

Date: 11-1-2021

Ref No: YPVMS/ 57 /2020-2021

## MOU- REPORT 2020

In accordance with a MOU signed between the two institutions, viz. Department of Botany, Sri YashwantraoPatil Science College, Solankur (Dr M S Sutare, Executor) and Department of Botany, Swami Vivekanand Senior College, Mantha (Dr R S Gaikwad, Executor) (herein referred to as the both departments) to the intent on educational -research co-operation dated on 14th September 2020, the first activity Report under the MOU is prepared.

As it is mutual desire to promote, develop and accelerate research following activities are conducted.

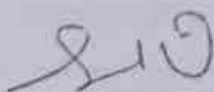
1. Frequent field Survey is carried out to collect seeds of plants.
2. Photographs of the plants are taken at the field itself.
3. Taxonomic Identification of the plants is conducted.

**Implementation-** Radhanagari is a taluka from Kolhapur district, well known for plant diversity in western region. The taluka is situated along the ranges of Sahyadri and lying on the boundary of Kolhapur and Sindhudurga district of Maharashtra state. The hilly areas and the plains of the taluka are covered by semi-evergreen forests.

Various places from the taluka were visited during September 2020 to December 2020. The plants were observed in the field, collected and identified scientifically with the help of floras and other texts (Cooke 1901, Kirtikar & Basu 1993, Prajapati & Kumar 2003, Mahajan & Divan 1969, Yadav & Sardesai 2002).

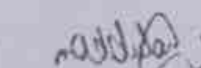
In future propagation / cultivation practices for some plants is planned.

Though the MoU is signed between the Department of Botany, Sri YashwantraoPatil Science College, Solankur and Department of Botany, Swami Vivekanand Senior College, Mantha, Dr Manisha S Sutare of YashwantraoPatil Science College, Solankur and Dr Rajesh S Gaikwad of Swami Vivekanand Senior College, Mantha, will be solely responsible for implementation of the MoU and will be responsible carrying out different research activities, roles and responsibilities mentioned therein.

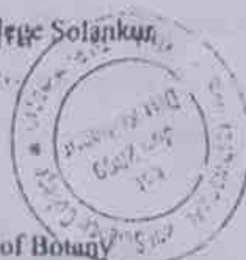


**PRINCIPAL**

Sri Yashwantrao Patil Science College, Solankur  
Tal. Radhanagari, Dist. Kolhapur

  
Dr Manisha S Sutare

Executor of MoU For Department of Botany  
Shri Yashwantrao Patil Science College,



  
14/12/2021  
Head/Principal

**VC Principal**  
Swami Vivekanand Senior College,  
Mantha Dist. Kolhapur

  
Dr Rajesh S Gaikwad

Executor of MoU For Department of Botany  
Swami Vivekanand Senior College, Mantha



## Original Research Article

DOI: 10.26479/2022.0803.02

**ETHNO BOTANICAL USES OF *LEEA MACROPHYLLA* ROXB. AND  
*LAGERSTROMIA PARVIFLORA* ROXB.****Manisha S Sutare<sup>1\*</sup>, Rajesh S Gaikwad<sup>2</sup>**

1. Department of Botany, Shri Yashwantrao Patil Science College Solapur,  
Dist. Kolhapur, Maharashtra, India
2. Department of Botany, Swami Vivekanand Senior College Mantha,  
Dist. Jalna, Maharashtra, India.

**ABSTRACT:** *Leea macrophylla* Roxb. and *Lagerstromia parviflora* Roxb. are important traditionally used medicinal plants from ancient time period. In present work, medicinal significance and the pharmacological effects of the plant are discussed. It is essential to study the uses of plants and other associated knowledge which will help for researchers to introduce new phytoproducts for scientific validation. Besides, the present work suggests that the more scientific data is required to explore its chemical constituents in the treatment of diseases and disorders for making new therapeutic drugs. It is also suggested that both species are under threat of extinction so need to be protected.

**Keywords:** *Leea*, *Lagerstromia*, phytoproducts, medicinal plants, traditional medicine.

**Article History:** Received: May 24, 2022; Revised: June 06, 2022; Accepted: June 14, 2022.

**Corresponding Author: Dr. Manisha S Sutare\* Ph.D.**

Department of Botany, Shri Yashwantrao Patil Science College Solapur, Dist. Kolhapur,  
Maharashtra, India. Email Address: [drsutarems@gmail.com](mailto:drsutarems@gmail.com)

**1. INTRODUCTION**

Western ghat within Maharashtra is a known to have good repository for plants that have preventive and curative effects on human health, thereby have been used as traditional medicine (TM) for different ailments since ancient times. TM is popular in parts of the African and Asian countries. According to World Health Organization (WHO), more than 80% of the world populations depend on TM for their primary health care needs. Plant-based medicinal systems continue to play an



## LINKAGE



**The New College, Kolhapur**

**&**



**Shri Yashwantrao Patil Science College, Solankur**







Linkage is signed on 15<sup>th</sup> March 2018 between Department of Chemistry, The New College, Kolhapur (First Party) and Shri Yashwantrao Patil Science College, Solankur (Second Party). It is agreed by First party and Second party to impart student exchange, guest lectures, study tours, instrument training and research to the students and to organize conference/seminars jointly. Both the parties have discussed in detail the areas of co-operation and mutually agreed to make the linkage. Now it is agreed by and between both the parties with the following terms and conditions.

**Terms and Conditions:**

- 1) Both the parties will extend their facilities to each other in the areas of student exchange, guest lectures, study tours, instrument training and research to the students and to organize conference/seminars jointly.

- 2) No rental charges or any other incidental charges, unless mentioned, shall be paid by both the parties for using the infrastructure facilities of each other.
- 3) The linkage will be valid for a period of five years starting from the date of signing this agreement and may be renewed for a further period of five years through mutual consent of parties.
- 4) This linkage may be terminated by either side by giving a three months notice to that effect in writing.

In witness whereof, the parties here have set this hands on the 15<sup>th</sup> March 2018.

Party	First Party	Second Party
Institute	The New College, Kolhapur	Shri Yashwantrao Patil Science College, Solankur
Signature		
Name & Designation	Mrs. J. S. Kshirsagar Head, Department of Chemistry	Dr. Rahul B. Patil Head, Department of Physics
Signature		
Name & Designation	Dr. N. V. Nalawade Principal	Dr. G. G. Chougale Principal
Seal		





Shri Vyanknath Shikshan Prasarak Mandal's

# SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR

Taluka: Radhanagari, District: Kolhapur (Maharashtra, India). Pincode: 416212

Email: [ypvmsolankur@gmail.com](mailto:ypvmsolankur@gmail.com) / [ypvms.436.cb@gmail.com](mailto:ypvms.436.cb@gmail.com)

Website: [www.ypsc.ac.in](http://www.ypsc.ac.in)

Affiliated to Shivaji University Kolhapur, MS, India | Accredited by NAAC with 'B' Grade (CGPA=2.14)

Shri. A. Y. Patil  
Secretary

Shri. R. Y. Patil  
Chairman



## Activity Report – Conference / Seminar

(Academic Year: 2018-19)

Name of the activity	-	Conference – 2 <sup>nd</sup> ICMES-2018
Organized by	-	Department of Physics, YPSC Solankur
Date of Activity	-	7 <sup>th</sup> & 8 <sup>th</sup> December 2018
Time	-	9 am onwards
Venue	-	Shivaji University Kolhapur auditorium
Total Number of participants	-	more than 100
Name of Faculty	-	Dr RB Patil, Dr SH Tamboli, Dr AA Jatratar
Objective	-	conference
Outcome	-	recent advances in nanomaterials and technology, worked as Editor of special issue published in Scopus indexed journal,



## Development of magnetically recyclable nanocatalyst for enhanced Fenton and photo-Fenton degradation of MB and Cr(VI) photo-reduction

Rupali Chavan<sup>a, b, 1</sup>, Nilesh Bhat<sup>a, 1</sup>, Santosh Parit<sup>b</sup>, Kitchamsetti Narasimharao<sup>c</sup>, Rupesh S. Devan<sup>c</sup>,  
Rahul B. Patil<sup>d</sup>, Vijay C. Karade<sup>e</sup>, Nilesh V. Pawar<sup>f</sup>, Jin Hyeok Kim<sup>c</sup>, Jyoti P. Jadhav<sup>a, \*\*</sup>,  
Ashok D. Chougale<sup>b, \*</sup>

<sup>a</sup> Department of Biochemistry, Shivaji University Kolhapur, India

<sup>b</sup> Department of Chemistry, The New College Kolhapur, Shivaji University Kolhapur, India

<sup>c</sup> Department of Metallurgy Engineering and Materials Science, Indian Institute of Technology Indore, Simrol, Indore, 453552, India

<sup>d</sup> Department of Physics, Yashwantrao Patil Science College Solapur, Shivaji University Kolhapur, India

<sup>e</sup> Optoelectronic Convergence Research Center and Department of Materials Science and Engineering, Chonnam National University, South Korea

<sup>f</sup> Department of Botany, The New College Kolhapur, Shivaji University Kolhapur, India

### ARTICLE INFO

#### Keywords:

Fenton  
Photo-Fenton  
Cr(VI) reduction  
Dye degradation  
Magnetic nanoparticles

### ABSTRACT

The present work reports the facile green synthesis of  $\text{Fe}_3\text{O}_4$  magnetic nanoparticles (MNPs) and their Fenton and photo-Fenton catalytic activity for reduction reactions. The glucose-mediated MNPs exhibit spherical morphology with an average diameter of  $6.3 \pm 1.1$  nm. The catalytic activity of MNPs evaluated for Fenton and the photo-Fenton reactions resulted in 92 and 93% dye degradation in just 120 and 75 min, respectively. The magnificence of this novel synthesis methodology is the higher efficiency of both processes at varied pH ranges. Different catalytic parameters like wide pH range, catalyst dose, and  $\text{H}_2\text{O}_2$  concentrations have made it more effective for both processes. Besides, the reusability study showed 63.71 and 57.57% activity even after six cycles in Fenton and photo-Fenton processes, respectively. The scavenger study showed the involvement of  $\bullet\text{OH}_{\text{ox}}$  over  $\bullet\text{OH}_{\text{fex}}$  in the Fenton process, where  $\bullet\text{OH}$  was found as a prime source of dye degradation in the photo-Fenton process. Moreover,  $\text{Fe}_3\text{O}_4$  MNPs successfully reduced the 80 ppm load of Cr(VI) within 25 min, which improved further to 15 min by adding a chelating agent. This Fenton and photo-Fenton magnetically reusable catalyst will indulge the development of water treatment in an eco-friendly and economical way with great potential.

### 1. Introduction

The catastrophe of environmental pollution affects human health and has become a global concern. The leading source of pollution is the chemical products by industry or everyday products such as pesticides, coatings, printing inks, adhesives, cleaning agents, and personal care [1], which have become the greatest threat of pollution. Also growing industrial sector of textile, paper, and printing increases the threat of pollutants by its dyes and toxic heavy metals containing effluent. Worldwide over  $7 \times 10^5$  tons of synthetic dyes are produced annually, whereas  $2 \times 10^5$  tons of these dyes are lost to effluents annually during industrial operations [2]. Improper treatment of effluents that contain dyes causes water contamination, which is destructive to the environment. In recent years, nitrophenols and pigments used in pesticides,

drugs, paper, plastic, paint, cosmetics, food, textiles, printing, and synthetic dyes, causing a considerable hazard towards environmental pollution [3]. These chemicals directly discharged in an open environment affect water, soil, plants, and animals.

Methylene blue (MB) is a heterocyclic aromatic compound known as methyl thioninium chloride, commonly used as a cationic dye. It also harms aquatic life by preventing its growth and regeneration [4]. Hence, it is necessary to remove the dyes from wastewater. Various technologies are developed to degrade or decolorize dyes, including physical, chemical, and biological approaches [5–9]. Some processes include filtration, reverse osmosis, electrochemical oxidation, activated carbon adsorption, coagulation, ion exchange, flocculation, ozonation, advanced oxidation, and the Fenton process for the decontamination of textile waste [10]. The advanced oxidation process (AOP) is one of the

\* Corresponding author.

\*\* Corresponding author.

E-mail addresses: [jjp\\_biochem@unishivaji.ac.in](mailto:jjp_biochem@unishivaji.ac.in) (J.P. Jadhav), [ashokdchougale@newcollege.ac.in](mailto:ashokdchougale@newcollege.ac.in), [ashokdchougale@gmail.com](mailto:ashokdchougale@gmail.com)

<sup>1</sup> Authors contributed equally. border-bottom: 1px solid black; border-bottom-width: 0px; border-left: 1px solid black; border-left-width: 0px; border-right: 1px solid black; border-right-width: 0px; padding-top: 0px; padding-bottom: 0px; padding-left: 0px; padding-right: 0px; margin-top: 0px; margin-bottom: 0px; margin-left: 0px; margin-right: 0px; display: inline; line-height: 1.2; vertical-align: baseline; font-size: 0.8em; font-style: normal; font-weight: normal; text-indent: 0px;">Received 31 August 2022; Received in revised form 22 October 2022; Accepted 27 October 2022  
0254-0584/© 2023



## On the shape based SPR of silver nanostructures

Rahul B. Patil\*

Department of Physics,  
Shri Yashwantrao Patil Science College, Solankur,  
Shivaji University,  
Kolhapur – 416211, India  
Email: rrahulpatil@gmail.com

\*Corresponding author

Ashok D. Chougale

Department of Chemistry,  
The New College,  
Shivaji University,  
Kolhapur – 416012, India  
Email: ashokdchougale@gmail.com

**Abstract:** Nanoscience and nanotechnology is the key towards enrichment of human life. It has been functional in almost all the sectors viz. energy, safety, medicine, biomedical, security, communication, space, health, agriculture, etc. The class of nanomaterials from 0D (dimensional) to 3D includes nanotubes, nanorods, nanoparticles (NPs), nanowires, nanoplates, nanodots (quantum dots), etc. Among the noble metals, silver nanomaterials have been of great interest since ancient times. It is being used in different fields such as textile industry, food packaging, cosmetic industry, catalysis, various bio applications, coatings, DNA sequencing, SERS, etc. The last decade has concentrated on its antibacterial potential and its use in nano-bio-applications. The interesting optical properties specifically surface plasmon resonance (SPR) have been studied widely to explore its practical application in sensors, bio-devices, data storage, spectroscopic techniques, catalysis etc. It can be tuned by varying size and shape of NPs. Along with this SPR is the prime easy tool to get the prima-facie information about size and shape of the synthesised nanomaterials. This paper aims to focus on shape based SPR of silver nanostructures.

**Keywords:** silver; AgNPs; nanostructure; nanotechnology; SPR; surface plasmon resonance.

**Reference** to this paper should be made as follows: Patil, R.B. and Chougale, A.D. (2021) 'On the shape based SPR of silver nanostructures', *Int. J. Nanotechnol.*, Vol. 18, Nos. 11/12, pp.1015–1027.

**Biographical notes:** Rahul B. Patil is working as Head of the Department of Physics, YP Science College, Solankur. He is IQAC coordinator. He received his PhD in Physics from Shivaji University, Kolhapur in 2008. His research area is thin film and currently working in field of nanomaterials. He has 22 research papers in Scopus indexed journals. He has been Postdoctoral Fellow at National Central University, Taiwan.



# Analytical methods for the identification and characterization of silver nanoparticles: A brief review

Rahul B. Patil<sup>a,\*</sup>, Ashok D. Chougale<sup>b,\*</sup>

<sup>a</sup> Shri Yashwantrao Patil Science College, Solankur, Shivaji University, Kolhapur, India

<sup>b</sup> The New College, Kolhapur, Shivaji University, Kolhapur, India

## ARTICLE INFO

Article history:  
Available online xxxx

Keywords:  
Silver nanoparticles  
XRD  
XPS  
DLS  
TEM  
FTIR

## ABSTRACT

Bionanotechnology is one of centered subdisciplines inside nanotechnology. Since antiquated occasions, silver nanoparticles (AgNPs) are being utilized for an assortment of uses. Numerous combination techniques are developed under the top-down and bottom-up methodology. The precise particle characterization is essential after synthesis since the properties of a particle could significantly affect its physico-chemical and biological properties. The trademark highlight of nanomaterials, for example, size, shape, size dispersion, surface zone, shape, solvency, aggregation etc. should be assessed before surveying poisonousness or biocompatibility. The evaluation of the synthesized nanomaterials are done using many analytical techniques such as XRD, UV-vis spectroscopy, DLS, FTIR, XPS, SEM, AFM, TEM and so on. Here, key techniques are described along with a few examples in accordance with recent studies on AgNPs.

© 2021 Elsevier Ltd. All rights reserved.

Selection and peer-review under responsibility of the scientific committee of the 3rd International e-Conference on Frontiers in Mechanical Engineering and nanoTechnology.

## 1. Introduction

The noble metals especially silver nanoparticles (AgNPs) are being used since ancient times for various applications. Inferable from their interesting properties, for example, high surface-to-volume proportion, broad size shape, and compositional tunability, agreeability to recuperation, they are generally utilized in the biomedical field and catalysis. The huge advancements in the field of nanoscience have driven and boosted the field of nanotechnology. Looking at the recent pandemic situation due to COVID-19, the various research organizations with the help of governments and industries invented vaccines that arrived in a historically short period. Nano-based materials have played a crucial role in diagnosis and treatment. The viability of nanomaterials relies upon different boundaries dependent on the specific application. The different combination strategies have developed under top-down and bottom-up methodologies. Every technique has its disadvantages and preferences. Tuning the property of nanomaterials concerning shape and size has likely used in nanotechnology. The nanomaterials exist in different structures, for example, nanocubes, nano-

wires, nanoparticles (NPs), nanoplates, nanoprisms, nanorods, nanotubes, and so on. The usefulness of nanomaterials with a particular size and shape becomes important for the particular application. In this context, analytical techniques play a crucial role. The fundamentals of the analytical techniques along with insights into AgNPs are discussed with recent examples.

## 2. Analytical techniques for characterization of AgNPs:

### 2.1. X-ray diffraction

X-ray diffraction (XRD) is a non-destructive technique and one of the essential scientific strategies which have been utilized to investigate the molecular and crystal structures along with qualitative identification of various compounds, quantitative resolution of chemical species, estimating the level of crystallinity, isomorphous substitutions, particle sizes etc. Analysis of the materials to a great extent relies upon the arrangement of a diffraction pattern. The working principle of XRD is Bragg's law and is based on the wide-angle elastic scattering of X-rays. When the crystal is exposed to X-rays, it forms several diffraction patterns. These patterns replicate the physico-chemical characteristics of the materials crystal structures. In a powder specimen, diffracted beams

\* Corresponding authors.

E-mail addresses: [rrahulpatil@gmail.com](mailto:rrahulpatil@gmail.com) (R.B. Patil), [ashokdchougale@gmail.com](mailto:ashokdchougale@gmail.com) (A.D. Chougale).

<https://doi.org/10.1016/j.matpr.2021.03.384>

2214-7853/© 2021 Elsevier Ltd. All rights reserved.

Selection and peer-review under responsibility of the scientific committee of the 3rd International e-Conference on Frontiers in Mechanical Engineering and nanoTechnology.



|| Dnyan - seva - tyag ||

Shri Vyanknath Shikshan Prasarak Mandal's



**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE**

**SOLANKUR**

**TAL. RADHANAGARI, DIST. KOLHAPUR - 416212**

**PHONE - 02321 231561**

Email: ypsmsolankur@gmail.com

www.ypsc.ac.in

Affiliated to Shivaji University, Kolhapur

YPVM/c 6/2017-18

Date : 08/06/2017

To,

Principal,

Sadhashivrao Mandlik Mahavidyalaya, Murgud.

Tal. Kagal, Dist. Kolhapur.

**Sub: Agreement of Memorandum of Understanding (MoU) for Inter-Library Loan (ILL)**

Dear Sir,

With reference to subject cited above this is to kindly let you know that our college proposes to establish Memorandum of Understanding (MoU) for Inter Library Loan with your college library.

Our college library has variety of reading material for its users in various forms such as Books, Competitive Exam Material, Journals, CDs, E-Books, E-Reports, E-Clippings, Audio-Video Files and Software's etc. We know that no academic institution can purchase all reading material & fulfill its user's information needs at their own level; Inter-Library Loan is a useful service whereby a user of one library can borrow books or receive photocopies of documents that are owned by another library. Now-a-days it is being essential for every institute/library to share their reading material with each other.

By applying some terms and conditions we can establish MoU between our colleges & begin Inter-Library Loan for our library users. Hence, you are kindly requested to accept our proposal for the same. Kindly go through MoU Agreement, Please send back one copy of agreement with your signature as your acceptance.

Thank You,

Sincerely Yours,

  
PRINCIPAL

Shri Yashwantrao Patil  
Science Mahavidyalaya

Solankur, Tal. Radhanagari, Dist. Kolhapur

Enclosure: As mentioned above



|| Dnyan-sewa-tyag ||

Shri Vyanknath Shikshan Prasarak Mandal's

**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE  
SOLANKUR**

**TAL. RADHANAGARI, DIST. KOLHAPUR - 416212**

**PHONE - 02321 231561**

Email [ypsmsolankur@gmail.com](mailto:ypsmsolankur@gmail.com)

[www.ypsc.ac.in](http://www.ypsc.ac.in)

Affiliated to Shivaji University, Kolhapur

YPVM/06/2017-18

Date : 28/06/2017

## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MoU) signed between

1. **Shri. Yashwantrao Patil Science College, Solankur, Tal. Radhanagari.**

and

2. **Sadhashivrao Mandlik Mahavidyalaya, Murgud.**  
Tal. Kagal, Dist. Kolhapur.

through their Principals and unanimously agrees the following set of codes:

### **CL 1 Purpose**

1.1 This agreement of MoU is proposed to share inter-library reading material of both college libraries through Inter-Library Loan (ILL) Scheme.

1.2 This ILL scheme is purely intended to balance local collections and is not a substitute for good library collections planned to meet the routine needs of users.

### **CL 2 Regulations & Scope**

2.1 The conduct of inter-library loan scheme is regulated by the set of codes prepared by the authorities of both colleges in mutual understanding.

2.2 The period of this agreement will be **Three years** from the date of signing this MoU. The agreement shall come to an end on the expiry of the period, unless extended by both the parties.



### **CL 3 Definition**

3.1 The rules prepared under this ILL scheme cover transactions between two libraries of above colleges.

3.2 The terms 'Requesting Library' and 'Supplying Library' are used in preference to 'borrowing' and 'lending' to cover the exchange of copies as well as loans; similarly the term 'Material/Document' is used for reading material of library in any form.

### **CL 4 Responsibilities of the Requesting Library**

#### **4.1 Confidentiality**

4.1.1 Inter-library loan transactions, like circulation transactions should be maintained strictly confidential in the library records.

#### **4.2 Complete Bibliographic Citation**

4.2.1 A good bibliographic description should be given while requesting the material so that the user will receive the exact requested item.

#### **4.3 Transmitting the Request**

4.3.1 The requesting library should send a loan request via conventional letter, fax, Internet transmission, or E-mail. Electronic communication is recommended to save the time, money and for swift transaction.

4.3.2 The requesting library should communicate with the supplying library in advance if the material is needed for other uses such as course teaching, classroom or other group viewing of audio-visual material or for an extended loan period

#### **4.4 Due Date and Use Restrictions**

4.4.1 Borrowed material can be kept for the maximum period of 15 days only.

4.4.2 Overall 10 numbers of reading material can be given. However, documents in the electronic form such as E-Reports, E-Clippings, and Audio-Video Files except of CDs have no limit and could be shared through E-mail.

4.4.3 It is the ultimate responsibility of the Requesting Library to return material/s in the same condition in which they were received. In particular, adhesive labels or tape should not be affixed directly to any borrowed material.

4.4.4 The issued material/document should not be handed over to any other person not concerned to college.

4.4.5 In case loss of issued material the concerned college has to replace the same edition copy or to pay the cost of material. If material damaged while using, the borrowing college should pay the charges.

4.4.6 The Requesting Library is responsible for ensuring compliance with any use restrictions specified by the Supplying Library such as 'Reference only' or 'No photocopying'.

4.4.7 When the Supplying Library denies a renewal request, the material should be returned by the original due date.

4.4.8 The response to a recall for the material may be the immediate return, or timely communication with the Supplying Library to negotiate a new due date.

#### **4.5 Shipping**

4.5.1 The Requested Library should pay both sided postage or transfer expenditure.

#### **4.6 Suspension of Service**

4.6.1 During the tenure of the agreement, Supplying Library may terminate the agreement either for break of any terms and conditions of this agreement or otherwise giving a one month notice in writing to the defaulting party.

### **CL 5 Responsibilities of the Supplying Library**

#### **5.1 Material Format**

Supplying Library is encouraged to lend as liberally as possible regardless of the format of the material requested such as audio-visual material and other categories of material that have traditionally been non-circulating.

#### **5.2 Confidentiality**

The Supplying Library has a responsibility to retain the confidentiality of the individual requesting the material. The sharing of the user's name to others is not, of itself, a violation of confidentiality.



### **5.3 Timely Processing**

The Supplying Library has a responsibility to act promptly on all requests. If a Supplying Library cannot fill a request within a reasonable time then it should respond promptly at earliest.

### **5.4 Identifying the Request**

The supplying library should send sufficient identifying information with the material to allow the requesting library to identify the material and process the request quickly. Such information may include a copy of the request, the requestor's transaction number etc.

### **5.5 Due Date and Use Restrictions**

5.5.1 The Supplying Library should clearly indicate the date on which it expects the loan to be discharged in its circulation system. Additional period should be suffixed to a definite date that have room for the sending and return of material as well as sufficient time for the use of the material.

5.5.2 The Supplying Library is encouraged to grant the renewal request if the material is not needed by the local users.

### **5.6 Suspension of Service**

A Supplying Library is encouraged to address the problems to the Requesting Library before termination of service.

PARTIES  
This MoU for Inter-Library Loan Scheme is signed today

Between

1. **Shri. Yashwantrao Patil Science College, Solankur,**  
Tal. Radhanagari, Dist. Kolhapur -416212  
and
2. **Sadhashivrao Mandlik Mahavidyalaya, Murgud.**  
Tal. Kagal, Dist. Kolhapur.

Through,

Dr. G. G. Chougale

Principal,

Shri Yashwantrao Patil Science College, Solankur  
al. Radhanagri, Dist. Kolhapur

Date:

Signature:

Seal:

In front of witnesses,

Shri. \_\_\_\_\_

HOD, Dept of Physics,

Shri Yashwantrao Patil Science College

Solankur, Tal. Radhanagari, Dist. Kolhapur

Date:

Signature:

Mr. Rajesh M. Meshram

Librarian,

Shri Yashwantrao Patil Science College

Solankur, Tal. Radhanagari, Dist. Kolhapur

Date:

Signature:

Dr. A.D. Kumbhar

Principal,

Sadhashivrao Mandlik Mahavidyalaya,  
Tal. Kagal, Dist. Kolhapur

Date:

Signature:

Seal:

Principal,  
Sadashivrao Mandlik Mahavidyalaya,  
Murgud, Tal. Kagal, Dist. Kolhapur,

Mr. \_\_\_\_\_

Library Attendant. —

Sadhashivrao Mandlik Mahavidyalaya,

Tal. Kagal, Dist. Kolhapur

Date:

Signature:

Mr. T.H. Satpute

Librarian,

Sadhashivrao Mandlik Mahavidyalaya,

Tal. Kagal, Dist. Kolhapur

Date:

Signature:





|| Dnyan - sewa - tyag ||

Shri Vyanknath Shikshan Prasarak Mandal's

**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE**

**SOLANKUR**

**TAL. RADHANAGARI, DIST. KOLHAPUR - 416212**

**PHONE - 02321 231561**

Email: ypsmsolankur@gmail.com

www.ypsc.ac.in

Affiliated to Shivaji University, Kolhapur

YPVM/156/2016-17

Date: 10 / 05 / 2017

To,

Principal,

Sadhashivrao Mandlik Mahavidyalaya, Murgud.

Tal. Kagal, Dist. Kolhapur.

**Subject: - Inter Library Loan (ILL) Facility.**

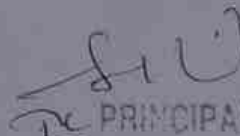
**Respected Sir**

With reference to above mentioned subject, we eager to establish the **Inter Library Loan Scheme** with your college in this academic year 2017-18. Our Library is well equipped with textbooks, various reference books, journals and periodicals. However, to get additional information -resources to our teachers and students.

We wish to establish an **Inter Library Loan Scheme** with the library of your college. Hope positive response for **Inter Library Loan Scheme** facility with you,

Thanking You,

**Yours Faithfully**



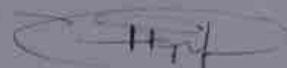
**PRINCIPAL**

Shri Yashwantrao Patil  
Science Mahavidyalaya  
Solankur, Tal. Radhanagari, Dist. Kolhapur



**LIBRARIAN**

Sanjay Mahavidyalaya,  
Murgud, Tal. Kagal, Dist. Kolhapur



**Librarian**

Sadhashivrao Mandlik Mahavidyalaya  
Murgud, Tal. Kagal, Dist. Kolhapur

12/18

8/1

||Dnyan-sewa-tyagi||

Shri Vyanknath Shikshan Prasarak Mandal's



**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE**  
**SOLANKUR**  
**TAL. RADHANAGARI, DIST. KOLHAPUR - 416212**  
**PHONE - 02321 231561**

Email ypsmsolankur@gmail.com

www.ypsc.ac.in

Affiliated to Shivaji University, Kolhapur

YPVM/05/2017-18

Date : 08/06/2017

To,  
Principal,  
**Doodhsakhar Mahavidyalaya, Bidri.**  
Mouninagar, Tal. Kagal, Dist. Kolhapur.

**Sub: Agreement of Memorandum of Understanding (MoU) for Inter-Library Loan (ILL)**

Dear Sir,

With reference to subject cited above this is to kindly let you know that our college proposes to establish Memorandum of Understanding (MoU) for Inter Library Loan with your college library.

Our college library has variety of reading material for its users in various forms such as Books, Competitive Exam Material, Journals, CDs, E-Books, E-Reports, E-Clippings, Audio-Video Files and Software's etc. We know that no academic institution can purchase all reading material & fulfill its user's information needs at their own level; Inter-Library Loan is a useful service whereby a user of one library can borrow books or receive photocopies of documents that are owned by another library. Now-a-days it is being essential for every institute/library to share their reading material with each other.

By applying some terms and conditions we can establish MoU between our colleges & begin Inter-Library Loan for our library users. Hence, you are kindly requested to accept our proposal for the same. Kindly go through MoU Agreement. Please send back one copy of agreement with your signature as your acceptance.

Thank You,  
Sincerely Yours,

PRINCIPAL

Shri Yashwantrao Patil  
Science College, Bidri

Stamp of the college.

Enclosure: As mentioned above

13  
LIBRARIAN



||Dnyan-seva-tyag||

Shri Vyanknath Shikshan Prasarak Mandal's



**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE**  
**SOLANKUR**  
**TAL. RADHANAGARI, DIST. KOLHAPUR - 416212**  
**PHONE - 02321 231561**

Email: ypsmsolankur@gmail.com

www.ypsc.ac.in

Affiliated to Shivaji University, Kolhapur

YPVM/05/2017-18

Date: 08/06/2017

## MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MoU) signed between

1. Shri. Yashwantrao Patil Science College, Solankur, Tal. Radhanagari.

and

2. Doodhsakhar Mahavidyalaya, Bidri

through their Principals and unanimously agrees the following set of codes:

### **CL 1 Purpose**

1.1 This agreement of MoU is proposed to share inter-library reading material of both college libraries through Inter-Library Loan (ILL) Scheme.

1.2 This ILL scheme is purely intended to balance local collections and is not a substitute for good library collections planned to meet the routine needs of users.

### **CL 2 Regulations & Scope**

2.1 The conduct of inter-library loan scheme is regulated by the set of codes prepared by the authorities of both colleges in mutual understanding.

2.2 The period of this agreement will be **Three years** from the date of signing this MoU. The agreement shall come to an end on the expiry of the period, unless extended by both the parties.

### **CL 3 Definition**

above colleges.

3.2 The terms 'Requesting Library' and 'Supplying Library' are used in preference to 'borrowing' and 'lending' to cover the exchange of copies as well as loans; similarly the term 'Material/Document' is used for reading material of library in any form.

## **CL 4 Responsibilities of the Requesting Library**

### **4.1 Confidentiality**

4.1.1 Inter-library loan transactions, like circulation transactions should be maintained strictly confidential in the library records.

### **4.2 Complete Bibliographic Citation**

4.2.1 A good bibliographic description should be given while requesting the material so that the user will receive the exact requested item.

### **4.3 Transmitting the Request**

4.3.1 The requesting library should send a loan request via conventional letter, fax, Internet transmission, or E-mail. Electronic communication is recommended to save the time, money and for swift transaction.

4.3.2 The requesting library should communicate with the supplying library in advance if the material is needed for other uses such as course teaching, classroom or other group viewing of audio-visual material or for an extended loan period.

### **4.4 Due Date and Use Restrictions**

4.4.1 Borrowed material can be kept for the maximum period of 15 days only.

4.4.2 Overall 10 numbers of reading material can be given. However, documents in the electronic form such as E-Reports, E-Clippings, and Audio-Video Files except of CDs have no limit and could be shared through E-mail.

4.4.3 It is the ultimate responsibility of the Requesting Library to return material/s in the same condition in which they were received. In particular, adhesive labels or tape should not be affixed directly to any borrowed material.



4.4.4 The issued material/document should not be handed over to any other person not concerned to college.

4.4.5 In case loss of issued material the concerned college has to replace the same edition copy or to pay the cost of material. If material damaged while using, the borrowing college should pay the charges.

4.4.6 The Requesting Library is responsible for ensuring compliance with any use restrictions specified by the Supplying Library such as 'Reference only' or 'No photocopying'.

4.4.7 When the Supplying Library denies a renewal request, the material should be returned by the original due date.

4.4.8 The response to a recall for the material may be the immediate return, or timely communication with the Supplying Library to negotiate a new due date.

#### **4.5 Shipping**

4.5.1 The Requested Library should pay both sided postage or transfer expenditure.

#### **4.6 Suspension of Service**

4.6.1 During the tenure of the agreement, Supplying Library may terminate the agreement either for break of any terms and conditions of this agreement or otherwise giving a one month notice in writing to the defaulting party.

### **CL 5 Responsibilities of the Supplying Library**

#### **5.1 Material Format**

Supplying Library is encouraged to lend as liberally as possible regardless of the format of the material requested such as audio-visual material and other categories of material that have traditionally been non-circulating.

#### **5.2 Confidentiality**

The Supplying Library has a responsibility to retain the confidentiality of the individual requesting the material. The sharing of the user's name to others is not, of itself, a violation of confidentiality.

### **5.3 Timely Processing**

The Supplying Library has a responsibility to act promptly on all requests. If a Supplying Library cannot fill a request within a reasonable time then it should respond promptly at earliest.

### **5.4 Identifying the Request**

The supplying library should send sufficient identifying information with the material to allow the requesting library to identify the material and process the request quickly. Such information may include a copy of the request, the requestor's transaction number etc.

### **5.5 Due Date and Use Restrictions**

5.5.1 The Supplying Library should clearly indicate the date on which it expects the loan to be discharged in its circulation system. Additional period should be suffixed to a definite date that have room for the sending and return of material as well as sufficient time for the use of the material.

5.5.2 The Supplying Library is encouraged to grant the renewal request if the material is not needed by the local users.

### **5.6 Suspension of Service**

A Supplying Library is encouraged to address the



SEAL OF PARTIES

This MoU for Inter-Library Loan Scheme is signed today

Between

1. Shri. Yashwantrao Patil Science College, Solankur,  
Tal. Radhanagari, Dist. Kolhapur -416212  
and
2. Doodhsakhar Mahavidyalaya, Bidri  
Mouninagar, Tal. Kagal, Dist. Kolhapur

Through,

Dr. G. G. Chougale  
Principal,  
Shri Yashwantrao Patil Science College, Solankur  
Tal. Radhanagari, Dist. Kolhapur

Date:

Signature:

Seal:

In front of witnesses,  
Shri. Yashwantrao Patil  
Mahavidyalaya  
Solankur, Tal. Radhanagari, Dist. Kolhapur.

Shri. Dr. R.B. Patil

HOD, Dept of Physics,

Shri Yashwantrao Patil Science College  
Solankur, Tal. Radhanagari, Dist. Kolhapur

Date:

Signature:

Mr. Rajesh M. Meshram

Librarian,

Shri Yashwantrao Patil Science College  
Solankur, Tal. Radhanagari, Dist. Kolhapur

Date:

Signature:

Shri Yashwantrao Patil Science Mahavidyalaya,  
Solankur, Tal. Radhanagari, Dist. Kolhapur

Dr. R. L. Rajgolkar  
Principal,  
Doodhsakhar Mahavidyalaya, Bidri  
Mouninagar, Tal. Kagal, Dist. Kolhapur

Date:

Signature:

Seal:

Mr. \_\_\_\_\_

Doodhsakhar Mahavidyalaya, Bidri  
A/P. Bidri, Tal. Kagal, Dist. Kolhapur

Date:

Signature:

Dr. Atul R. Nagarkar

Librarian,

Doodhsakhar Mahavidyalaya, Bidri  
A/P. Bidri, Tal. Kagal, Dist. Kolhapur

Date:

Signature:

Doodhsakhar Mahavidyalaya, Bidri,  
Tal. Kagal, Dist. Kolhapur



|| Dnyan-sewa-tyag ||

Shri Vyanknath Shikshan Prasarak Mandal's

**SHRI YASHWANTRAO PATIL SCIENCE COLLEGE**

**SOLANKUR**

**TAL. RADHANAGARI, DIST. KOLHAPUR - 416212**

**PHONE - 02321 231561**

Email ypsmsolankur@gmail.com

www.ypsc.ac.in

Affiliated to Shivaji University, Kolhapur

YPVM/15/2016-17

Date : 10 / 05 / 2017

To,  
Principal,  
Doodhsakhar Mahavidyalaya, Bidri.  
Mouninagar, Tal. Kagal, Dist. Kolhapur.

**Subject: - Inter Library Loan (ILL) Facility.**

Respected Sir

With reference to above mentioned subject, we eager to establish the **Inter Library Loan Scheme** with your college in this academic year 2017-18. Our Library is well equipped with textbooks, various reference books, journals and periodicals. However, to get additional information -resources to our teachers and students.

We wish to establish an **Inter Library Loan Scheme** with the library of your college. Hope positive response for **Inter Library Loan Scheme** facility with you,

Thanking You,

Yours Faithfully

Received  
10/5/2017

LIBRARIAN

PRINCIPAL

Shri. Yashwantrao Patil  
Doodhsakhar Mahavidyalaya

Solankur, Tal. Radhanagari, Dist. Kolhapur

PRINCIPAL

DOODHSAKHAR MAHAVIDYALAYA  
BIDRI TAL. KAGAL DIST. KOLHAPUR





# Shri. Yashwantrao Patil Science Mahavidyalaya, Solankur

Tal. Radhanagari, Dist. Kolhapur, Ph. (02321) 231581

(Affiliated to Shivaji University, Kolhapur)

E-Mail: ypvmsolankur@gmail.com

**Shri. R. Y. Patil**

President

**Shri. A. Y. Patil**

Secretary

Date: - 22/08/2017

Ref. No: - Y.P.V.M.S/044/2017-18

## MEMORANDUM of UNDERSTANDING (MoU) INTERCOLLEGE EXCHANGE PROGRAM BETWEEN SHRI YASHWANTRAO PATIL SCIENCE COLLEGE, SOLANKUR AND M.H. SHINDE MAHAVIDYALAYA, TISANGI

Shri Yashwantrao Patil Science College, Solankur, Tal - Radhanagari, Dist- Kolhapur and M.H. Shinde Mahavidyalaya, Tisangi, Tal- Gaganbawada, Dist- Kolhapur agree to co-operate on intercollege exchange programs based on the principles of reciprocity.

This Memorandum of Understanding (MoU) encourages the exchange of faculty, scholars and academic information and materials in the belief that research and educational processes at both the colleges will be enhanced and that mutual understanding between their respective faculty and scholars will be increased by the establishment of such exchanges.

1. Colleges agree to promote the following exchange activities based on their respective academic and educational needs:
  - a. Exchange of faculty and scholar (Professor, Associate professor, Assistant professor and researchers)
  - b. Exchange of academic information and materials.
  - c. Exchange of periodical academic publication.
  - d. Organisation of joint research programs
  - e. Other academic exchanges agreed to by both colleges
2. The implementation of each specific exchange based on this MoU shall be separately negotiated and determined by both colleges. Efforts shall be made by both sides to find financial sources for carrying out the exchange programs.

[...continue on next page] 1/2

**PRINCIPAL**

M. H.  
Tal.

Scanned by TapScanner