

**Shri Shivaji Shikshan Prasarak Mandal Barshi's**  
**Shri Shivaji Mahavidyalaya Barshi, Dist : Solapur (MS)**  
**Success Story as Star Status College under DBT- Star College Scheme**

In response to call for proposal notification for DBT Star College Scheme on DBT website, we applied for Strengthening of Life Science and Biotechnology Education and Training at Undergraduate Level on 07/08/2016. While making proposal, we followed the DBT guidelines strictly. We took four meets of staff of Chemistry, Microbiology, Zoology, Physics, Botany, Electronics for making proposal. For this application, we got mentoring from New College Kolhapur and Swami Vivekanand College Kolhapur.

We got email from Hon. Dr. Garima Gupta madam, Program Officer, DBT Star College Scheme, about shortlisting of college on 08/12/2016 and offline presentation was scheduled in Delhi on 11/01/2017 before DBT task force committee. We gone thoroughly through the DBT guidelines about presentation and submitted proposal, and made the presentation. For this we arranged three meets of staff. Meanwhile, we arranged three rounds of presentation of Prin P R Thorat and Co-ordinator Dr. V M Gurame before staff.

We received email from DBT about recommending the college under star college scheme on 13/02/2017 and it was suggested to submit PFMS details, MOA, advisory committee and program details for further process. We as a team, prepared and submitted requisites in email, to DBT in time.

We got sanction letter and grants on 25/05/2017 and we completed the purchase process related to recurring and non-recurring grants accordingly. We conducted all the activities by the guidance of DBT authorities and external experts. Dr V M Gurame and Mr S B Kawade completed training about EAT module in PFMS office, Mumbai. The meet of advisory committee was held on 28/04/2018, in which,



DBT representatives, Prin. Dr. Kharat, Dr. Vinay Kumar and External Expert Dr. P V Anbhule reviewed the progress of the scheme and made some suggestions. We submitted the DBT advisory committee minutes, progress report, SE/UC etc to DBT accordingly.

In 2018-19, we started six add-on courses to support the curriculum. We got opportunity to represent DBT in shining Maharashtra exhibition September 2018 held in Solapur, in which we presented activities conducted by college in 2017-18 and information about DBT star college scheme. In this exhibition, we came across 10 nearby colleges. We mentored them to apply for DBT star college scheme. We got opportunity to participate in IISF-2018 held at Lucknow in October. DBT task force review meet was held at Pondicherry on 18-20 April 2019, we presented activities in 2017-18 and 2018-19 before the task force. We submitted the progress report and SE/UC of 2018-19 to DBT accordingly.

In 2019-20, we started celebrating the DBT week which includes different science popularization programs like science fair, presentations by students etc. In May 2019, NAAC peer team visited college for third cycle accreditation. NAAC peer team reviewed and appreciated activities conducted by college in DBT Star College Scheme, and we got 'A' Grade (CGPA=3.14) in this accreditation. In March 2020, there was lockdown due to Covid-19 pandemic, so we conducted remaining activities online. To create and spread awareness about Covid-19, we conducted online DBT Covid-19 awareness quiz in March-April 2020, in which 19000+ people participated over the globe. We submitted the progress report and SE/UC of 2019-20 to DBT in time.

In July 2020, we got email about submission of annual progress report for star status evaluation in prescribed format and we submitted it accordingly. We presented



progress made by the college under DBT Star College Scheme before the DBT task force committee, through online mode, on 25 August 2020. On 9 December 2020, DBT awarded the Star Status to our College. In 2020-21, we conducted various online activities like DBT guest lecture series, practicals through virtual lab, demonstration etc. We submitted the progress report and SE/UC of 2020-21 to DBT in time.

In 2021-22, we conducted various online activities like DBT guest lecture series, practicals through virtual lab, demonstration etc. till November 2021. Our students and staff participated in various online outreach activities conducted by DBT NCCS Pune and DBT Star College Mentorship program conducted by DBT. Students have made 1 minute videos for sharing their views on role of DBT Star College Scheme in strengthening their knowledge and practical skills. From December 2021, we started all these activities offline. Since the parent university has extended the term till 30 June 2022, we conducted all the proposed activities successfully.

**Impact of the scheme on upgradation of science in the Undergraduate Courses:**

- Curriculum Enrichment due to newly added experiment, demonstrations and certificate courses
- Development of scientific attitude among students
- Increased flow of students towards basic and life science subjects and the high-ranked students are joining the courses in basic and life sciences
- Enhancement in % result, merit of students, % of girls and category students
- More hands-on exposure, educational tours etc. resulted into better understanding of concepts
- Students and staff got opportunity to listen and interact with scientists, academicians and researchers



- The scheme helped to improve the quality of teaching, to boost interest of students in the subject and motivate them for further studies and research.

**Acknowledgements:** We highly acknowledge the financial assistance of Department of Biotechnology, New Delhi which has strengthened the learning process of students in all respects. We are grateful to all the advisory committee members & PFMS team for the guidance and suggestions for effective implementation of this scheme. We also thank to trustees of Shri Shivaji Shikshan Prasarak Mandal Barshi for their encouragement and co-operation in all respect.

Dr. V. M. Gurame



**Co-Ordinator**  
DST-Star College  
Shri Shivaji Mahavidyalaya, Barshi

Dr. Bharati Revadkar

Handwritten signature in blue ink, appearing to be 'B. Revd', is written over the text 'I/C. PRINCIPAL' and 'Shri Shiveji Mahavidyalaya, Barshi'.

# SHRI SHIVAJI MAHAVIDYALAYA, BARSHI

## DBT Guest Lecture Series 2020-21

S.N.	Resource Person	Affiliation	Participant
1.	Dr.Manickam Jaykannan	Department of Chemistry, IISER, Pune	268
2.	Mr. Arjun Balgude	Drogen Pharma, Goa	177
3.	Dr. G. S. Rashinkar	Shivaji University, Kolhapur	282
4.	Dr. Sharad Pasale	S. M. Joshi College, Hadapsar, Pune	217
5.	Dr. Pradip Pachfule,	Technische Universität Berlin, Germany.	280
6.	Dr. Gulshan Relhan,	Ex Scientist, Bhabha Atomic Research Center, Mumbai	160
7.	Dr. V. M. Gurame	Shri Shivaji Mahavidyalaya, Barshi	110
8.	Smt Latika Patil Gurav	Flamingo pharmaceuticals, Taloja, New Mumbai	187
9.	Dr Ravi Kale	Process and operational knowledge Services pvt. ltd Bangalore	207
10.	Dr Baban Dhekane	Haffkine bio-pharmaceutical Corporation Ltd. Mumbai	215
11.	Dr Madhuri Sahasrabudhe	MAC of Arts Science and Commerce, Aurangabad	211
12.	Dr. M.P Bhilave	Shivaji University ,Kolhapur	87
13.	Dr. V.B Sakhare	Yogeshwari Maahavidyalaya, Ambejogai	135
14.	Dr. S.H Kharat	Modern College Pune	141
15.	Dr. V. Ravi	Govt. College Kumbkonam,(T.N)	151
16.	Dr. R. S. Patil	Vivekanand College, Kolhapur	126
17.	Prof. M.K.Patil	SRTM University Nanded	131
18.	Dr. A. V. Kadam	Institute of Science,Dr. HomiBhabha State University,Mumbai	70
19.	Prof. V. B. Patil	PAH Solapur, UniversitySolapur	133
20.	Shri. S. S. Barkade	Yashvantrao Chavan Institute of Satara.	84
21.	Dr. Sachin Vilas Chavan	G.H.R College of Art, Commerce &Science ,Wagholi.	46
22.	Dr.V D Bachuwar	PAH Solapur, University Solapur	44
23.	Shri S M Gadekar	Sr. Software Architect, Oracle. Bangalore.	45
24.	Mr. Dilip Jagdale	Rtd. DYSP, Sakharnagar, Parvati Pune	272
25.	Dr. R. M. Mulani	SRTM University, Nanded	310
26.	Dr. Shrikant Bhosale	Mohekar College, Kalamb.	198
27.	Dr. Rajendra Suryavanshi	Vidnyan Mahavidyalaya, Sangola.	243
28.	Dr. Vinay Dixit	DBF Dayanand College, Solapur	185
29.	Dr. Pramila Battase	Gardens club, Kolhapur	220

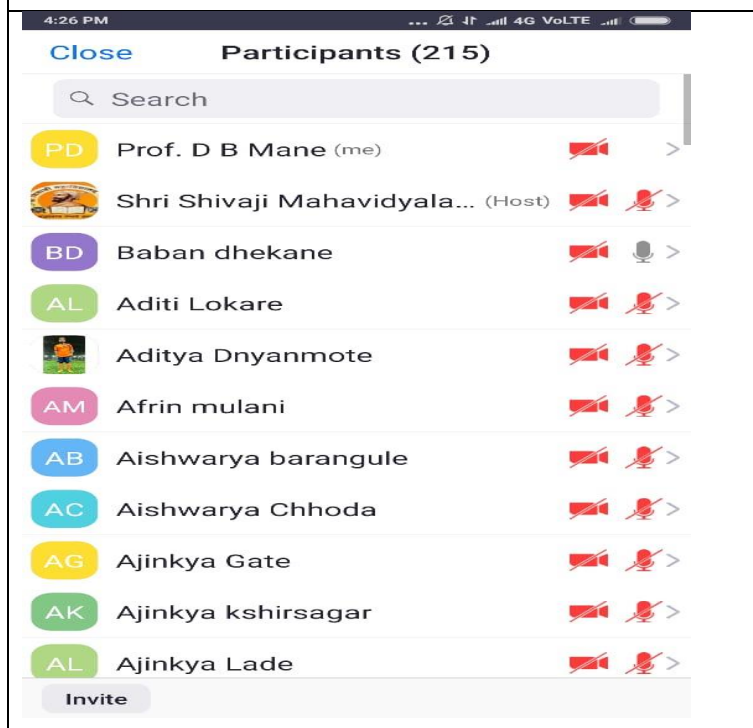
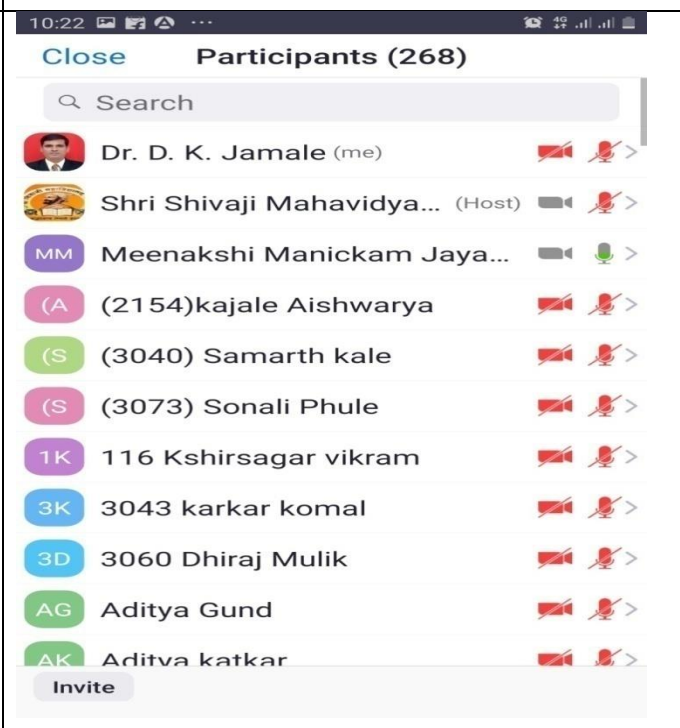
  
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**DBT-Star College**  
**Shri Shivaji Mahavidyalaya, Barshi**



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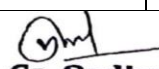
  
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**Some screen shots of Guest Lectures in DBT lecture series**

<p><b>Dr. Baban Dhekane</b>(Haffkine biopharma Mumbai) “Scope of Microbiology in Pharmaceutical Industry”</p> 	<p><b>Prof. Mannickam Jayakannan (IISER, Pune)</b> “The Role of Chemistry in Cancer Treatment”</p> 
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**Shri Shivaji Mahavidyalaya Barshi (Publication in Scopus Indexed Journals 2020-21)**

Name of teacher	Links and Number of publications in 2020-21(scopus indexed)
Dr U R Ghodake Dr S M Kabbur Dr S D Waghmare	1) <a href="https://www.sciencedirect.com/science/article/abs/pii/S030488532032343X">https://www.sciencedirect.com/science/article/abs/pii/S030488532032343X</a> 2) <a href="https://www.sciencedirect.com/science/article/pii/S1018364720302639">https://www.sciencedirect.com/science/article/pii/S1018364720302639</a>
Dr S H Gaikwad, Dr T N Lokhande, Dr A B Shaikh Dr V M Gurame	3) <a href="https://www.tandfonline.com/doi/abs/10.1080/03067319.2021.1912333">https://www.tandfonline.com/doi/abs/10.1080/03067319.2021.1912333</a> 4) <a href="https://europepmc.org/article/med/32861203">https://europepmc.org/article/med/32861203</a> 5) <a href="https://www.tandfonline.com/doi/abs/10.1080/03067319.2020.1792893">https://www.tandfonline.com/doi/abs/10.1080/03067319.2020.1792893</a> 6) <a href="https://www.tandfonline.com/doi/abs/10.1080/22297928.2020.1776634">https://www.tandfonline.com/doi/abs/10.1080/22297928.2020.1776634</a>
Dr D K Jamale, Dr V M Gurame, Dr D DKarad	7) <a href="https://www.sciencedirect.com/science/article/abs/pii/S240583002030272X?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S240583002030272X?via%3Dihub</a> 8) <a href="https://onlinelibrary.wiley.com/doi/10.1002/masy.202000008">https://onlinelibrary.wiley.com/doi/10.1002/masy.202000008</a> 9) <a href="https://pubmed.ncbi.nlm.nih.gov/32735431/">https://pubmed.ncbi.nlm.nih.gov/32735431/</a>

  
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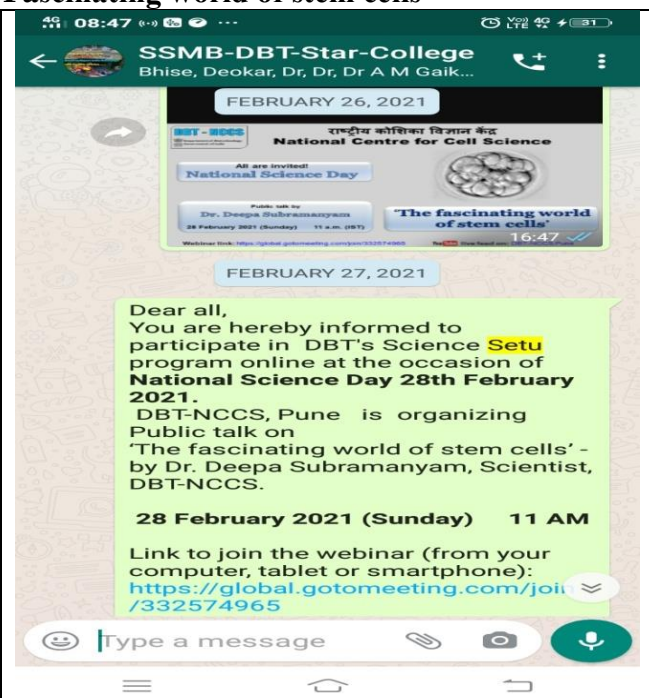
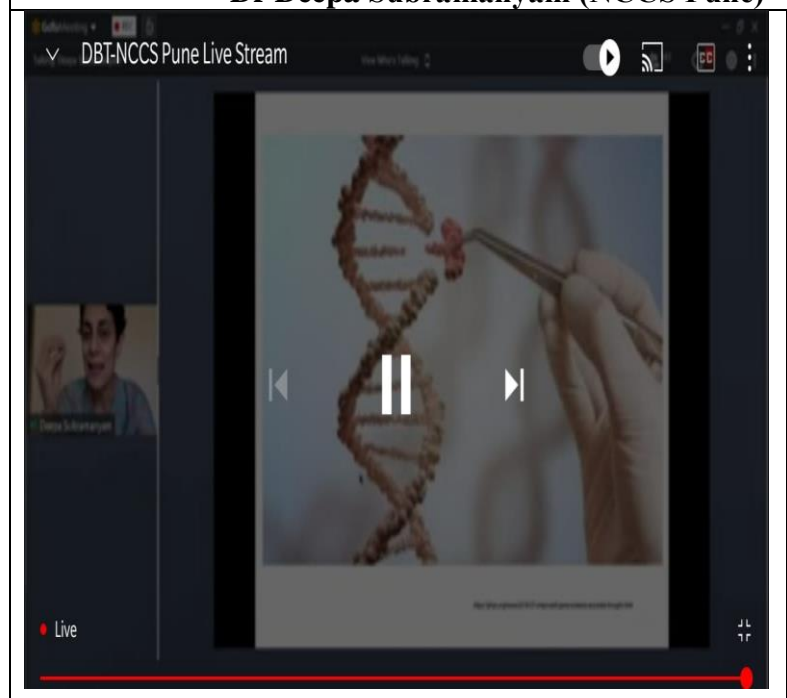
  
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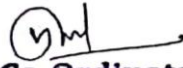
**Shri Shivaji Mahavidyalaya Barshi**

**(Participation of Staff and students in Outreach Activities 2020-21)**

S N	Title of outreach activity	Organizing institute
1	Popular Talk by Dr Deepa Subramanyam	NCCS Pune
2	Popular Talk by Dr. Bhavana Muralidharan	NCCS Pune
3	Panel Discussion on Gender Equality in STEM and Research	NCCS Pune
4	Biodiversity in Kokan and sustainable rural development	Sakal Media and Colleges YIN (Young Inspirators Network)
5	YIN Mission COVID @36	
6	National Technology Day: YIN Samvad	
7	Tips for health in Covid-19 pandemic by Dr Tatyrao Lahane	
8	Popular Talk by Dr. Gayatri Deshpande: World Health Day	
9	Popular Talk by Miss Manjusha Gadgil : World Book Day	Shri Shivaji Mahavidyalaya Barshi
10	E-training on "Tools and platforms for online teaching (for teachers of 20 schools in Barshi Tahshil)	

**Participation of staff and students in Popular Talk by  
Dr Deepa Subramanyam (NCCS Pune) "Fascinating world of stem cells"**



  
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**Shri Shivaji Mahavidyalaya Barshi (New Experiments, Hands on, Exhibitions etc. 2020-21)**

**New Experiments added: 42**

**Hands-on experiments being conducted: 50**

Due to COVID-19 pandemic situation, during 2020-21, we got only 10 days to interact with students' offline, but we have demonstrated and explained these experiments online. We also used VLAB platform to demonstrate and explain some experiments online. Some representative experiments from Chemistry, Microbiology, Zoology, Physics, Electronics, Botany are given below.

- Estimation of aniline, RPR Test, Estimation of protein by colorimetric method, Ballistic pendulum, Characteristics of Semiconductor Diode, Study of plant pesticides

- NPK in fertilizer sample, Phage titration, silk cocoons and types of silk, photovoltaic characteristics of solar cell, Study of Basic Gates, maceration technique

**Exhibitions/seminars/training courses conducted for students and staff online=10**

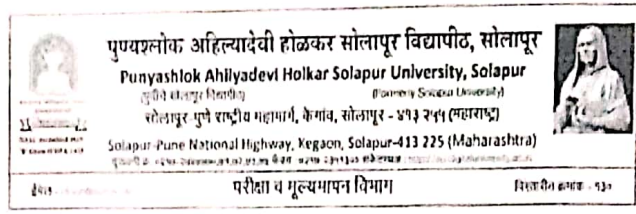
**Letter of Gold medal for BSc First rank in University (February 2021).**

**For students: 07**

- Workshop on use of Virtual lab
- Certificate Course in Soil and Water Analysis
- Certificate Course in Fundamentals of Electrocardiogram
- Certificate Course in Fermentation Technology
- Certificate Course in Vermi-Composting
- Certificate Course in Agricultural Food Products
- Certificate Course in PCB Designing and Prototype Machine Making

**For staff: 03**

- Workshop on Tools for online teaching
- Workshop on caring for teachers voice
- Workshop on use of Virtual lab



आ. क्र. पु.सर्वे/विशिष्ट/सामुहिक/सुसजीवक/२०२१/१६६ दि. १३/०२/२०२१

ता.का.क/का.उ.सर्वोदित  
 प्रि. गव.प.प्राथमिक शाळा, वाकल, वाकल प्लॉट अजिंठा रोड बारशी, बारशी, जिल्हा सोलापूर - ४१३१११

पुण्यश्लोक अहिल्यादेवी होळकर सोलापूर विद्यापीठाचा ११ वा परदेशीयदान स्मरण अगती (Online) पदवीने सन २०२१-२२ चे २०२१ सोबी सहाजी २०३३ वा. दिवाणीत परीक्षात सन होणार आहे. दिवाणीत परीक्षा ०७/०२/२०२१ पासून १०/०२/२०२१ पर्यंत होणार आहे. या परीक्षेत उत्तीर्ण झालेल्या विद्यार्थ्यांना सन २०२१-२२ चे २०२१ सोबी सहाजी २०३३ वा. दिवाणीत परीक्षात सन होणार आहे. या परीक्षेत उत्तीर्ण झालेल्या विद्यार्थ्यांना सन २०२१-२२ चे २०२१ सोबी सहाजी २०३३ वा. दिवाणीत परीक्षात सन होणार आहे. या परीक्षेत उत्तीर्ण झालेल्या विद्यार्थ्यांना सन २०२१-२२ चे २०२१ सोबी सहाजी २०३३ वा. दिवाणीत परीक्षात सन होणार आहे.

सुसजीवक विभाग:	मा. प्रि. गव.प.प्राथमिक शाळा, वाकल, वाकल प्लॉट अजिंठा रोड बारशी, बारशी, जिल्हा सोलापूर - ४१३१११
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सुसजीवक विभाग:	मा. प्रि. गव.प.प्राथमिक शाळा, वाकल, वाकल प्लॉट अजिंठा रोड बारशी, बारशी, जिल्हा सोलापूर - ४१३१११

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परीक्षेबाबत सविस्तर माहिती व सूचना दिवाणीच्या संकेतस्थळावर <http://su.digitaluniversity.ac> उपलब्ध आहे. अधिक माहितीसाठी वर नमूद केल्या दूरवार्ता केंद्रावर संपर्क साधावा.  
 प्र. संसाधक,  
 परीक्षा व मूल्यांकन विभाग

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