Progress Report of DBT Star College Scheme

(Second Year 2019-2020)

Submitted to

Department of Biotechnology

Government of India

By

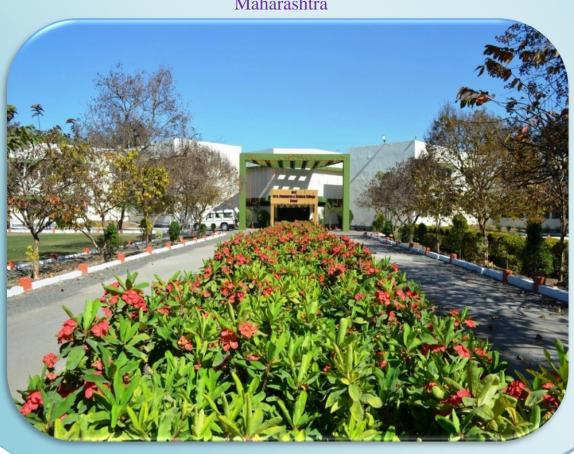


Mula Education Society's

Arts, Commerce & Science College, Sonai

Tal- Newasa, Dist- Ahmednagar – Pin - 414105

Maharashtra



1) Name of the College:

Mula Education Society's

Arts, Commerce and Science College, Sonai Dist. - Ahmednagar, 414105, Maharashtra

2) Name of Departments supported:

Name of Coordinator, designation, address, phone nos.

Overall Coordinator &:

Member Secretary

Dr. Mohiuddin J. Shaikh

Head, Department of Zoology

Arts, Commerce and Science College, Sonai

Mob. 9604458850

Email. mjshaikh1850@gmail.com

Departmental Coordinators:

A) Department of Chemistry:

Prof. Mahesh Jangale

Assistant Professor

Arts, Commerce and Science College, Sonai

Mob. 9921015315

Email. maheshjangale00111@rediffmail.com

B) Department of Botany:

Dr. Vitthal E.Darandale

Assistant Professor

Arts, Commerce and Science College, Sonai

Mob. 9766706551

Email. vitthalrao.darandale@gmail.com

C) Department of Geography:

Prof. Shoukat Z. Fakir

Assistant Professor

Arts, Commerce and Science College, Sonai

Mob. 9673732686

Email. shoukatfakir@gmail.com

Dr. Mohiuddin J.Shaikh

Coordinator
DBT-Star College Scheme
Mula Education Society's
Arts, Commerce & Science College, Sonai

PRINCIPAL
Mula Education Society's
Arts,Commerce & Science College
Sonai,Tal.Newasa,Dist.A'nagar

Pin - 414105

3) No. of regular faculty with Ph.D. in each department:

Name of Department	No. of regular faculty	No. of regular faculty with Ph.D.
Chemistry	15	01
Botany	08	04
Geography	06	01

4) List of courses run by different participating departments:

Name of	Under	Post Graduate	Certificate/Diploma
Department	Graduate		
Chemistry	B.Sc.	M.Sc. Organic	1. Certificate course in
	Chemistry	Chemistry	Soil and Water
		M.Sc. Analytical	Analysis
		Chemistry	2. Diploma in Soil and
			Water Analysis
Botany	B.Sc. Botany	M.Sc. Botany	1. Certificate course in
			Medicinal and
			Aromatic Plants
			2. Diploma in Medicinal
			and Aromatic Plants
			3. Advanced Diploma in
			Medicinal and
_			Aromatic Plants
Geography	B.Sc.	M.Sc./ M.A.	1. Certificate course in
	Geography	Geography	Travel and Tourism
	B.A.		2. Diploma in Travel and
	Geography		Tourism

5) Cut off percentage for admission in different courses in participating departments, positions in University, percentage of result during previous academic session (2018-19):

A) Cut off percentage for admission in different courses

Name of Department	Name of Course	Cut off percentage for
		admission
Chemistry	F.Y.B.Sc.	61%
Botany	F.Y.B.Sc.	61%
Geography	F.Y.B.Sc.	61%
	F.Y.B.A.	46%

B) Positions in University

Name of Department	Degree obtained	Positions in University
Chemistry	B.Sc.	
Botany	B.Sc.	
Geography	B.Sc.	
	B.A.	

C) Percentage of results

Name of Department	Course	Percentage result
Chemistry	B.Sc.	63%
Botany	B.Sc.	75%
Geography	B.Sc.	82%
	B.A.	73%

6) List of projects undertaken by students, industrial visits by students, summer training in last one year:

List of Projects undertaken by Students

A) Department of Chemistry

Sr. No.	Name of Project	Name of Student	Class	Name of
1	A Study of Vilsmeyer	1. Mr. Harshad B.Bhore	S.Y.B.Sc.	Guide Mr. V.R.
1	Haack Reaction on	2. Mr. Kiran B.Vane	S.Y.B.Sc.	Phatake
	Various Substituted	3. Mr. Sanket V. Bhawar	S.Y.B.Sc.	Titatake
	Acetophenones	4. Mr. Sagar A.Dhale		
2	Study of Washing	1. Mr. Sachin M.Unawane	S.Y.B.Sc.	Mr. B.L.
	Action of various	2. Mr. Arpit B.Marade	S.Y.B.Sc.	Shinde
	Detergent brand	3. Mr.Mangesh B.More	S.Y.B.Sc.	
	available in market.	-		
3	A Study of Physico-	1. Miss.Kalyani D.Gadekar	T.Y.B.Sc.	Mr. S.A.
	chemical parameter of	2. Miss. Archana S. Kadam	T.Y.B.Sc.	Najan
	Water Sample Around	3. Miss. Pratiksha Falake	T.Y.B.Sc.	
	College Campus.	G.		
4	A Study Physico-	1. Mr. Ashutosh V.Devkar	S.Y.B.Sc.	Mr. M.S.
	chemical parameter of	2. Mr. Abhiji S.Devkar	S.Y.B.Sc.	Jangale
	Soil Sample Around	3. Mr.Sachin A.Bachkar	S.Y.B.Sc.	
	College Campus.	4. Mr. Vilas B.Bachkar	S.Y.B.Sc.	
5	A Study O and N	1. Mr. Akshay N Kadam.	T.Y.B.Sc.	Mr. Y.B.
	alkylation reaction of	2. Mr. Ajit S.Kale	T.Y.B.Sc.	Salve
	aromatic compounds	3. Mr. Pramod N. Lohakare	T.Y.B.Sc.	
		4. Mr. Darandale Mukul S.	T.Y.B.Sc.	
Total	05	18		

B) Department of Botany

Sr. No.	Name of Project	Name of Student	Class	Name of
SI. 110.	Ivallie of Floject	Name of Student	Ciass	Faculty
				guide
1.	Total fungal counts in	1. Miss. Sonawane Pooja	T.Y.B. Sc.	Dr. B.J.
1.	soil samples taken	2. Miss. Madhuri	1.1.D. Sc.	Apparao
	from three different	S.Sukalkar	T.Y.B. Sc.	Аррагао
	crops	3. Miss. Dhere Vrushali	T.Y.B. Sc.	
2.	Assessment of bore-	1. Miss. Rutuja B.	T.Y.B. Sc.	Dr. B.J.
۷.	well and canal water	Chaudhari	T.Y.B. Sc.	Apparao
	for pH, EC, TDS and	2. Miss. Priti B. Jare	1.1.D. Sc.	Пррагао
	hardiness	2. Wiss. 1 Hd D . Jaic		
3.	A survey of trees	1. Mr. Prashant V.	T.Y.B. Sc.	Dr. S.L.
J.	species of Sonai	Lokhande	1.1.D. Sc.	Laware
	College campus	2. Mr. Jadhav Prashant R.	T.Y.B. Sc.	Laware
4.	Effect of liquid	1. Miss. Chaitali P.	T.Y.B. Sc.	Dr. S.L.
	organic fertilizer on	Kshirsagar	T.Y.B. Sc.	Laware
	seed germination in	2. Miss. Neeta R. Darade	T.Y.B. Sc.	Zaware
	mungbean	3. Miss. Sukanya D.	1.1.5.50.	
	mangovan	Vidhate		
5.	Study of Pollen	1. Miss. Vaishnavi P.	S.Y.B.Sc.	Dr. A. R.
	diversity in	Dhere	S.Y.B.Sc.	Tuwar
	Dicotyledonous plants	2. Miss. A.Kadam Mayuri	S.Y.B.Sc.	
	of College Campus	3. Miss. Priyanka B. Kale		
6.	Study of pH, EC and	1. Mr. Abhijit S. Devkar	S.Y.B.Sc.	Dr. V. E.
	WHC of soil samples	2. Mr. Ashitosh V. Devkar	S.Y.B.Sc.	Darandale
	from Sonai village	3. Mr. Akshay P. Kale	S.Y.B.Sc.	
7.	Preparation of organic	1. Miss. Punam S.Damale	T.Y.B.Sc.	Mr. D. A.
	Formulation for	2. Miss. Priyanka A. Kurhe	T.Y.B.Sc.	Tuwar
	Livestock			
8.	Effect of some wild	1. Miss. Vaishnavi N.	T.Y.B.Sc.	Mr. D. A.
	plants extract on	Sonawane		Tuwar
	weeds	2. Miss. Suvarna R. Kurhe	T.Y.B.Sc.	
9.	Preparation of Flora of	1. Mr. Nitin B. Mhasrup	T.Y.B. Sc.	Mr. D. A.
	the College Camps	2. Mr. Nitin Rajendra	T.Y.B. Sc.	Tuwar
		Kurhe		
10.	Study of antifungal	1. Miss. Pooja S. Lokhande	T.Y.B. Sc.	Miss. S. S.
	effect of Bauhinia	2. Miss. Rupali G. Dhumal	T.Y.B. Sc.	Sase
	tomentosa			
Total	10	24		

C) Department of Geography

Sr. No.	Name of Project	Name of Student	Class	Name of Faculty guide
1	Application of Dumpy level in drainage for rural planning	 Mr. Pramod B.Gore Mr. Vshal B.Hapse Miss.Komal R.Tambe Miss.Swati V.Telore 	S.Y.B.A. S.Y.B.A. S.Y.B.A. S.Y.B.A.	Dr. R.V. Wagh
2	Application of watershed	 Miss.Manisha R.Auti Miss.Vrushali 	S.Y.B.Sc. S.Y.B.Sc.	Mr. S.Z. Fakir

	Management for water	A.Chaudhari	S.Y.B.Sc.	
	and soil conservation	3. Miss.Rutuja	S.Y.B.Sc.	
		S.Dahatonde		
		4. Miss.Shweta K.Tale		
3	Geographical study of	1. Mr. Tushar T.Bule	S.Y.B.A.	Mr. S.K.
	river Koutuki with the	2. Mr. Abhijit R.Dafal	S.Y.B.A.	Auti
	help of GIS	3. Miss. Shubhangi	S.Y.B.A.	
		N.Belhekar	S.Y.B.A.	
		4. Miss.Priyanka		
		D.Gaikwad		
4	Role of technology in	1. Mr. Shrikrushna	S.Y.B.Sc.	Mr. A.S.
	Agricultural	S.Gadakh	S.Y.B.Sc.	Darandale
	development	2. Mr. Sudarshan	S.Y.B.Sc.	
		B.Gadakh	S.Y.B.Sc.	
		3. Mr. Niketan D.Dhaktode		
		4. Mr. Sanket K.Avhad		
Total	04	16		

D) Inter-Disciplinary Projects

Sr. No.	Name of Project		Name of Student	Class	Name Guide
1	Waste Plastic Management for College Campus	1. 2.	Miss. Shweta Burhade Miss. Rupali Bankar	T.Y.B.Sc. T.Y.B.Sc.	Mr. M.S. Jangale
2	Study of Mosquito Attracting Fragrances	1. 2.	Miss. Vrushali Chaudhari Miss. Pranali Kardile	S.Y.B.Sc.	Mr. M.S. Jangale
3	Assessment and Monitoring of Waste Generated in College Campus	1. 2. 3.	Miss. Chaitali P.Kshirsagar Miss. Nikita P.Kale Miss. Payal B. Sangale	T.Y.B.Sc.	Dr. S. L. Laware
4	Preparation and Analysis of Protein Rich Cookies	1. 2.	Miss. Rupali S.Zirpe Mr. Vaibhav S.Pawar	S.Y.B.Voc. S.Y.B.Voc.	Mr. A.S. Jadhav
5	Preparation and Analysis of Iron Rich Beet Root	1. 2.	Mr. Rushikesh R.Lawande Miss.Vidya B.Sadre	S.Y.B.Voc. S.Y.B.Voc.	Mr. A.S. Jadhav
6	Preparation and Analysis of Gauva Juice with Rose Flavor	1. 2.	Miss. Mrunal A.Vaje Rutuja S.Athae	F.Y.B.Voc. F.Y.B.Voc.	Miss. S.S. Phaktkar
7	Collection and classification of data from Sonai Village	1. 2.	Mr.Kohale Miss. Prajakta Salunke	S.Y. BBA (CA) T.Y. BBA (CA)	Mr. LiyakatSa yyad
8	To prepare a plan for data collection to collect qualitative of a village	1. 2.	Miss. Rutuja Borude Mr. Rama Bhakare	S.Y. BBA (CA) T.Y. BBA (CA)	Dr. Shankar Laware Mr. Sagar Tarde
9	Collection of	1.	Miss. Sonali Aagle	S.Y. BBA	Mr.

	information on Vanjarwadi village and validation of data through interview	 Mr. Akshay Gore Mr. Annasaheb Kadam 	(CA) T.Y. BBA (CA)	LiyakatSa yyad Dr. S. S. Darade
10	To prepare and plan parameters to collect data for developing a village website	Mr. PankajDharmjidnyasu Mr. AkshayKute	S.Y. BBA (CA) T.Y. BBA (CA)	Mr. LiyakatSa yyad Mr. Sagar Tarde
11	Data collection and Classification for website development for Village-Shiregaon	 Miss. Khushi Sharma Mr. MukindaPatare Mr. SurajNimse 	S.Y. BBA (CA) T.Y. BBA (CA)	Dr. Shankar Laware Mr. Satish Ghugarkar
Total	11	24		

Industrial/Field visits by students:

A) Department of Chemistry (Report)

One day field visit was organized at Sahyadri Farms and Sula Vineyards at Nashik by Dept. of Chemistry and B.Voc. (Food Processing) Department on 17 Jan. 2020. In the morning session faculty and students visited Sahyadri Farm Nashik. This was a big group of farmers who cultivate and process different fruits and vegetables. The group observed the various processes carried out on fruits and vegetables. In the afternoon session we visited the Sula Vineyards at Nashik. It produces wines from grapes and other fruits. Here we observed the fermentation tank, fermentation process, distillation of ferment liquid, etc. In this visit students learntabout various processes that takes place in industry, which will be beneficial to them for future. Total 45 students participated.

B) Department of Botany (Report)

An Excursion Study tour was arranged by Department of Botany at Vani and Saputara on 28 January 2020. For this tour 29 students were involved including 05 boys and 24 girl participants. Dr. Darandale V.E., Tuwar D. A., Miss. Wable M. A. andMiss. Sase S. N. were the faculty members with students. Vani is located in Nashik District, Maharashtra, India. Vani hills are situated on the top of the hill range. The study area is located between latitude 20^o 23'05"- 20^o 23'55" and longitude 73^o 54'05"- 73^o 54'30"and comes within the topo-sheet no. 46H/15allocated by the Survey of India. Saputara is located in Dang district of Gujrat, India. The geographical location of Saputara was latitude 20^o 45'59.99"N and longitude 73^o 28'59.99" E. Vani and Saputara are suitable spot for the study and collection of plants as well as for studying ecology. These places have suitable

climatic conditions for plant as well as animal diversity. Students observed and studied various plants with different families like Asteraceae, Bignoniaceae, Arecaceae, Caesalpinaceae, Papilionaceae, Mimosaceae, Verbinaceae, etc. with the help of faculty. At the place there was one huge pond, from where students collected Hydrophytes like *Hydrilla* and Algae like *Chara*, *Spirogira* etc. During excursion one *Zamia* species with male and female cones were observed and collected by students.

C) Department of Geography (Report)

Field Visit: 1

One day field visit was organized on 3rd March 2020 in morning session. The location of this field work was at Shani- Shingnapur, Tal- Newasa, Ahmednagar. There were total 40 students participated in this field work. Student took training about the GPS technology and surveying. These students were trained about how to make latitude and longitude(coordinates) references with the help of GPS instrument. Shanishingnapur is holy place of the Lord Shani. GPS survey was useful for the location of the shops, hotels, restaurants, road connectivity etc. to prepare maps.

Field Visit: 2

In the afternoon session second field visit was organized on same day at Sonai.

There is a river named Kautuki, at about 2 Kms from the College campus. With the help of Dumpy level, it is possible to find out the slope of river. Drainage system of this region was studied with the help of Dumpy level. Student understood how to develop an area map with the large scale map. This field visit has helped the students to learn and develop ideas about rural planning. Students also understood the importance of leveling and the problems associated with the drainage system. Drainage network management is necessary to reduce the water pollution near the residential zone.

Study Tour at Moraya Chinchore Village

There is a village named Moraya Chinchore about 10km from college Campus. One day study tour was organized at this place on 20 January 2020 by Chemistry, Botany and Geography Departments. Total 82 students and 09 teachers participated. The Moraya Chinchore village is Ideal Village. This Village is adopted by our parent NGO, Yashwant Samajik Pratishthan, Sonai and performing different activities for its development such as, Tree plantation and nurturing, Water shed management, 'Paani Adva Paani Jirava', Swachata Abhiyan, etc. In this Study tour students learned how this activity giving benefits to the village and Society. All students are participated in tree plantation activity.

7) Training received by Faculty/Students from participating departments:

A) Department of Chemistry

Sr.	Title of training	Venue	Date	Faculty
No.	programme			participated
1	Teacher Enrichment	New Arts,	17 th & 18 th	
	Programme	Commerce, and	July 2019	
		Science College		Mr. Mahesh
		Ahmednagar.		S. Jangale
2	Online Refresher Course	Sri Guru Tegh	16 weeks	(Faculty)
	in Chemistry for Higher	Bahadur Khalsa	1 Oct. 2019	(Faculty)
	education	College, Delhi	to 31 Dec.	
		University (ARPIT)	2019	
3	Student Awareness	Centre for	28th August	Miss. Chaitali
	Programme	Innovation,	2019	P. Kshirsagar
		Incubation and		(Student)
		Enterprise Dept.,		
		S.P.P.U. Pune at		
		New Arts,		
		Commerce and		
		Science College		
		Ahmednagar.		

C) Department of Geography

Sr.	Title of training	Venue	Date	Faculty
No.	programme			participated
1	Online Refresher Course	ARPIT,	12 Weeks	Mr. Shoukat Z.
	in Higher education	SWAYAM	Nov.2019 to Feb.	Fakir
			2020	
2	Certificate Course in GIS	Knowhere	2 nd May 2019 to 1 st	Mr. Amol S.
		Genomatics	June 2019	Darandale
		Pune		

8) List of exhibitions/seminars/training courses conducted by the college:

i) Student Development Programme

A week long 'Student Development Programme' was organized in the college between 29/07/2019 to 03/08/2019 under the aegis of DBT Star College Scheme. In this programme 10 teachers and 118 students from Chemistry, Botany and Geography Departments participated. Principal Dr. S. L. Laware, Dr. A. R. Tuwar, Dr. V. E. Darandale Mr. S. Z. Fakir& Mr. M. S. Jangale delivered lectures and Dr. M. J. Shaikh coordinated the programme. During SDP, Star College scheme was explained, and students were made aware about usefulness of this scheme. In this programme students were provided with the latest developments in the subject and also acquainted with the

various activities to be conducted during Academic year 2019-2020 under DBT Star College Scheme. The mind doubts about implementation of theory, practical and hands on tools under the Star College scheme, running parallel to regular University Academics were cleared by all the three Departmental Coordinators.

ii) National Science Day Programme

On the occasion of National Science Day, on 28th February 2020, a Seminar was conducted in the College, for the enrolled students under DBT Star College Scheme. The Chief Guest was Dr. G. M. Pondhe, Associate Professor and Head, Department of Environmental Science, P.V.P. College, Pravaranagar. The programme was chaired by Principal Dr.S.L. Laware. During the speech, the chief guest discussed about Advances in Chemical and Life Sciences and how in future inter-departmental courses will be beneficial to students. As many as 96 students and 12 faculty members attended the programme.

iii) Training Programs

Interview technique, Skills required for QC, QA and R & D work, future in chemical and pharmaceutical industry:-

A training programme on Interview techniques, Skill required for Quality Control, Quality Assurance and Research & Development work and future in chemical and pharmaceutical industry, was organized on 30th November 2019 in the Seminar Hall at 10.00am. Total 47 students participated in the programme. Dr. Kishor S. Rajdeo (Assistant Manager, Research & Development, Apcotex Industries Ltd., Gujarat India.), trained the students and explained how to prepare CV for interview, how to face interview, etc. He also explained importance of skills in handling instrumentslike HPLC and IR, required for QC, QA and R & D work. All the participating students actively participated. For this programme Dr. S.L. Laware (Principal), Dr. Tuwar A.R. (Vice, Principal) Prof. V.R. Phatake (HOD Chemistry Dept.), Mr. V.M. Pawar, Mr. Y.B. Salve, and other faculty were present. This programme was organized by Department of Chemistry, and coordinated by Mr. M.S. Jangale.

Guest lecture on IPR - Converting Idea to Patent

The guest lecture on IPR - Converting Idea to Patent was organized in the college on 23/12/2019. Dr. Amol Potgantwar and Dr. Vinodkumar Pathade from Sandip University Nashik, delivered lectures and offered their valuable guidance. For this programme Dr. S.L. Laware (Principal), Dr. Tuwar A.R. (Vice, Principal), Mr. V.R. Phatake, Mr. B.L. Shinde, Mr. S.A. Najan, Mr. M.S. Jangale, Mr. V.M Pawar, Mrs. M.B. Lande, and 10 other teachers, 42 students of Chemistry Dept. and 60 students of other departments actively participated in lecture.

Hands on training on skill development:

One day workshop on Flower arrangement and Bouquet preparation was organized by Department of Botany on 09/01/2020. About 78 students of different classes of B.Sc.

participated in this workshop. This workshop was conducted by Prof. Tuwar D. A. Different types of flower arrangements and usefulness of these flowers to make an attractive Bouquet was explained by the resource person. All the students were divided into 12 groups and a competition was arranged to make the Bouquet by them.

Bridging the Gap between Traditional knowledge and current technologies

So far we have been following the traditional system of teaching using lecture method. Today's student is well versed with the current technologies like use of mobile and internet technologies. He is much faster in learning as compared with his teacher who is still following the traditional chalk and talk technology. Today, information is stored not only in books, but also digitally and can be retrieved 24/7. In order to bridge this gap we have adopted current technologies like digital class rooms, equipped with computers, internet facility, LCD projector, Interactive boards and other audio-visual facilities. This addition to the traditional system has enabled the students to have good understanding of the subject.

Financial assistance from DBT has enabled us to purchase the audio-visual equipment and set up digital class rooms. The college, at present has 2 such digital class rooms.

Many scientific concepts, which students have learned in the class rooms, following the traditional teaching methods, remained incomprehensive to students, as they could not be tested in the laboratory, personally. We tried to bridge this gap by providing hands on training to students in way of project work and add on practicals.

Faculties are attending online faculty training programs. This replaces the traditional system of attending program in person with in closed room. This has resulted in utilizing free time effectively. So far three faculty members have attended and successfully completed online faculty training programs in this current academic year.

The nearby sister institute, 'College of Pharmacy, Sonai' has advanced instruments such as IR, HPLC, and UV-visible Double Beam Spectrophotometer. Training was given to our faculties of Chemistry and Botany Departments about handling, working and applications of these instruments.

Workshop on Data Input and Data collection from villages

A Two-Day Workshop on Data Input and Data collection from villages on 14-15 September 2019 was conducted. In this workshop Mr. Sagar Tarade and Mr. Satish Ghugarkar Viewtech Software Pune, worked as trainers. Inauguration has done with the auspicious hands of Dr. Shankar Laware. During this workshop students were trained how to collect data on various aspects including social, cultural, heath, nutrition and environmental. How the information is validated based on facts.

Outcome of the Workshop as below: Students learnt how to make a plan for collection of data and what should be the parameters. They also learnt how to consult the villagers for getting correct information. During the entire workshop student gained basic

knowledge about the process and ways of data classification. Total 40 Students participated.

iv) Student Participation in Exhibitions

A) Department of Botany:

Department of Botany has organized Flower Exhibition and one day workshop on preparation of Flower Bouquet and flower decoration on 11th February 2020. Total 50 students of the Department participated in this exhibition cum workshop. In this program, participants learnt to prepare flower bouquet and flower decoration on table, on walls, around the entrance and doors, etc. Some students gave information about flower decoration to visitors and guests, who visited our exhibition.

B) Department of Geography:

On the occasion of National Geography Day, i.e. 14th January, Department of Geography has arranged Two Days Exhibition (14/01/2020 and 15/01/2020) of Models, Instruments and Equipment for all College students, Higher Secondary Students and Parents. Our DBT star college scheme students had made different kinds of models and experiment related on the Geographical knowledge. More than 40 models were presented by students. This exhibition was open to all students of this as well as other neighboring colleges. The exhibition was also attended by parents and villagers in large numbers. The exhibition was open for two days, so that large number of students and visitors could get benefit of this.

Following instruments were displayed in the exhibition -

- 1. Geography surveying instruments and it uses in different sector
- 2. Weather instrument and its function
- 3. Dumpy Level and set
- 4. Theodolite instrument
- 5. Telescope
- 6. Weather instrument as- Thermometer, Barometer, Hygrometer, Wind vane, Cup Anemometer etc.
- 7. Maps and Chart- Toposheet series, Weather Chart, Regional world Map and Indian Maps
- 8. Landform models
- 9. Watershed models
- 10. Soil and water conservation model
- 11. New horticulture activity and animal husbandry
- 12. Global climatic changes
- 15. Model of hydrological Cycle
- 16. Causes of deforestation
- 17. Process of Volcano
- 18. World Population growth
- 19. Models of Solar system
- 20. Vertical layer of the atmosphere

9) Name, designation, host institute of guest faculty invited:

A) Department of Chemistry

Sr.	Name	Designation	Name of Host	Dates of	Topic of Lecture/
No.		_	institute	visit	Workshop
1	Dr. Kishor	Assistant	Apcotex	30.11.2019	Interview
	Rajdeo	Manager,	Industries Ltd.,		techniques, Skill
		Research &	Gujarat India		required for QC,
		Development			QA and R & D
					work in
					Pharmaceuticals
2	Dr. Amol	Assistant	Sandip	23.12.2019	IPR- Converting
	Potgantwar	Professor	University		Idea to Patent
			Nashik		
3	Dr.	Assistant	Sandip	23.12.2019	IPR- Converting
	Vinodkumar	Professor	University		Idea to Patent
	Pathade		Nashik		
4	Dr. Ramesh	Associate	Jijamata College	13.01.2020	Green Chemistry
	Naval	Professor	of Science,		
			Bhende		

B) Botany

Sr.	Name	Designation	Name of Host	Dates of	Topic of
No			Institute	Visit	Lecture/
					Practical
1	Dr. B.J.	Principal	Jijamata College	09/08/2019	Research
	Apparao		of Science,		Methodology in
			Bhende		Plant Sciences
2	Dr. A.A.	Associate	Ahmednagar	16/01/2020	Applications of
	Kulkarni	Professor	College,		Bio-fertilizer in
			Ahmednagar		legume Crops

C) Department of Geography

Sr.	Name	Designation	Name of Host	Dates of	Topic of Lecture/
No			Institute	Visit	Practical
1	Dr. B.K.	Assistant	A.C.S.	19/08/2019	GIS and Dumpy
	Wani	Professor	College, Satral		level surveying
					practical
2	Mr. Sandip	Software	Schnell	11/02/2020	Trainer for
	Pawar	Trainer	Informatics Pune	12/02/2020	Global Mapper
					software

10) Date of Advisory committee meeting:

Meeting No. 1 - 13.06.2019 Meeting No. 2 - 23.09.2019 Meeting No. 3 - 16.01.2020

(Minutes of meetings are attached at the end)

11) List of new Practicals introduced in different departments in last one year: A) Department of Chemistry

Sr.	Name of new practical	Beneficiary/
No.		Target group
1	Extraction of Lemon grass oil by steam distillation	S.Y.B.Sc.
2	Determination of acid strength of various fruits by Titrimetry	S.Y.B.Sc.
3	Isolation and Estimation of lycopene from tomato by	S.Y.B.Sc.
	spectrophotometry method.	
4	Estimation of Aspirin from given Tablet by	S.Y.B.Sc.
	Spectrophotometry method	
5	Manufacturing of soap by Saponification Process from	T.Y.B.Sc.
	vegetable oil	
6	Estimation of Organic Carbon in Soil by Colorimetric	T.Y.B.Sc.
	method	
7	Synthesis of silver Nanoparticles by Co-precipitation method	T.Y.B.Sc.
8	Photocatalytic degradation of Methyl orange dye using	T.Y.B.Sc.
	Nanoparticles	
9	Organic Mixture separation by chemical method	T.Y.B.Sc.
10	Demonstration of Handling and working of Double Beam	T.Y.B.Sc.
	Spectrophotometer	
11	Purification techniques in organic chemistry	S.Y.B.Sc.
	(recrystallisation and distillation)	
12	Demonstration of Thin Layer Chromatography Technique (T.Y.B.Sc.
	Identification and purification of compounds)	
13	Steam distillation technique for extraction of essential oil	S.Y.B.Sc.
	from plant leaf (Eucalyptus oil)	
14	Demonstration of Handling and working of Flame	T.Y.B.Sc.
	Photometer	

Outcome of the Activity:

The students received the skills to handle instruments such as Conductivity meter, pH meter, Colorimeter, Flame Photometer, UV Spectrophotometer, Muffle furnace, Ultrasonic bath, Synthesis of Nanoparticles and their applications such as degradation of dyes, manufacturing of soaps and their types, purification of organic compounds, distillation methods, soil sample collections, organic reactions with mole calculations, green reactions, their principals and applications, etc.

In the guest lecture on Interview technique, Skill required for QC, QA and R & D work, future in chemical and pharmaceutical industry teacher and students understood skill required in chemical and pharmaceutical industry at present and in future. In the guest lecture on IPR- 'Converting Idea to Patent' teachers and students learned how to convert idea into patent and how to file the patent.

Some students presented their project in competition organized in the college such as Innovation Poster Presentation Competition, Under CIIL OF SPPU, PUNE, New Entrepreneur Competition under Student Development Department, SPPU Pune.

Miss. Chaitali Kshirsagar, our TYBSc student presented a project – organic waste management under My Innovative Research Promotional Speeches activity in INNOVATION FESTIVAL organized in the college, on the occasion of 'Birth anniversary of former president Dr. A.P.J. Abdul Kalam'.

B) Department of Botany

Sr. No.	Name of new Practical	Beneficiary/ Target group
1	Sterilization of Glassware and Equipment for media preparation and inoculation for Plant tissue culture.	F.Y.B.Sc.
2	To study the process of M. S. Media Preparation for tissue culture	F.Y.B.Sc.
3	To study the Inoculation techniques in plant tissue culture	F.Y.B.Sc.
4	Improvement of crop yield by Application of Organic and Biofertilizers: Selection and preparation of plot	F.Y.B.Sc.
5	Improvement of crop yield by Application of Organic and Biofertilizers- Selection of crop for Application of Bio fertilizer Seed treatment and Sowing of seeds	T.Y.B.Sc.
6	Improvement of crop yield by Application of Organic and Biofertilizers- Applications of Organic and Biofertilizers	T.Y.B.Sc.
7	Isolation and small scale production of useful fungi Collection of soil samples from college campus	S.Y.B.Sc.
8	Isolation and small scale production of useful Fungi Isolation of fungi of collected sample	S.Y.B.Sc.
9	Isolation and small scale production of useful Fungi Scaling up and production of Fungi	S.Y.B.Sc.
10	Study of Water parameters (pH, EC, DO, BOD) and Soil parameters (WHC, pH, EC, DO, NPK etc.)	S.Y.B.Sc.
11	Study of Mutagenic effect on seed germination	T.Y.B.Sc.

12	To study the collection and Segregation of Organic Waste for solid state fermentation.	T.Y.B.Sc.
13	To study the Process on Organic Waste for Solid state fermentation.	T.Y.B.Sc.
14	Preparation of Awla Candy	T.Y.B.Sc.
15	Preparation of <i>Tutti frutti</i>	T.Y.B.Sc.

Outcome of the Activity:

All the students have been benefited by these lectures and practical. The students of F.Y.B.Sc have acquired knowledge about sterilization procedures of glassware and chemicals, preparation of media for plant tissue culture and inoculation of explants in tissue culture vials. The S.Y.B. Sc. students got the knowledge about Organic Farming, the Soil parameters and analysis of water and soil. T.Y.B. Sc. students learnt about the collection of Organic Waste and how to segregate it and they also learnt about processing on Organic Waste for Solid state fermentation as well as preparation of Awla candy and Tutti fruitti. This might help them in future to start up with small scale agro based industry.

C) Department of Geography

Sr.	Name of new practical	Beneficiary/ Target
No.		group
1	Introduction of Surveying	S.Y.B.A.,S.Y.B.Sc.
2	Types of Surveying	S.Y.B.A.,S.Y.B.Sc.
3	Prismatic Surveying	S.Y.B.A.,S.Y.B.Sc.
4	Plane Table Surveying	S.Y.B.A.,S.Y.B.Sc.
5	Introduction of GIS Advance	S.Y.B.Sc.,T.Y.B.A
	technology	
6	Introduction to Maps and Maps Scale	S.Y.B.Sc.,T.Y.B.A
7	Surveying with GPS	S.Y.B.Sc.,T.Y.B.A
8	Use of Global Mapper Software	S.Y.B.Sc.,T.Y.B.A
9	Practical in Dumpy level	S.Y.B.Sc.,T.Y.B.A

Outcome of the Activity:

The participating students have been benefited by these add-on practical, demonstration, project work and workshops. The students have acquired the skills of handling the instruments individually related with the survey. The technique of surveying can be used professionally as Land surveyor in Government and Private Firms. Also study of advanced GIS technology is a major achievement for rural students. Practical on Dumpy level are useful in future for the field like road and dam construction.

12) Details of equipment purchased in each department from DBT grant:

A) Department of Chemistry:

Sr. No.	Name of Item	Model	Nos. Quty	Cost per Unit	Total cost	Company	Date of Purchase	Installation Report
1.	pH Meter	EQ-611	04	11750	47000	Equiptronics	25/7/2019	Installed & ok
2.	Conductivity meter	EQ-661	04	16050	64200	Equiptronics	25/7/2019	Installed & ok
3.	UV Cabinet	BTI-49	01	7062	7062	Biotechnics India Pvt Ltd	25/7/2019	Installed & ok
4.	Colorimeter	EQ-650 A	03	9630	28890	Equiptronics	25/7/2019	Installed & ok
5.	Centrifuge	Bench Top CH 015/5	04	19000	76000	Adarsh	25/7/2019	Installed & ok
6.	Sonicator	LE -60	02	10298	20596	Galaxy Scientific Equipments	25/7/2019	Installed & ok
7.	Analytical Balance 0.01gm	CBB-1000 0.01gm	04	20597	82388	Contech	25/7/2019	Installed & ok
8.	Hot air Drying gun (Hair Dryer)	BHD006/0 0	04	1750	7000	Philips	25/7/2019	Installed & ok
9.	Freezer	HCF-148 H-2	02	18000	36000	Haier	25/7/2019	Installed & ok
10.	Refrigerator	LG 284L GL- I302RPZL	01	28000	28000	LG	25/7/2019	Installed & ok
11.	Digital melting point apparatus	LT-115	01	23540	23540	Labtronics	25/7/2019	Installed & ok
12.	Analytical Balance	CAS – 44 0.0001gm	01	42800	42800	Contech	25/7/2019	Installed & ok
13.	Microprocesso r flame photometer	LT-66	01	35310	35310	Labtronics	25/7/2019	Installed & ok
14.	IR Lamp	IL-11	10	2350	23500	Beurer	25/7/2019	Installed & ok
15.	TLC Plate Silica Gel	Catalog 1.05554.00 01	05	4500	22500	Merck	25/7/2019	Ok in use
	Total Cost in Ro Amount-Discou (544786-16343=	nt 3%+GST1		53/-)	623563			

B) Department of Botany:

Sr.	Name of Item	Model	Nos./	Cost	Total	Company	Date of	Installation
No.			Qnty.	per	cost		Purchase	Report
				Unit				
1.	Micro Centrifuge	R-12C	1	38000	38000	Remi	06/8/2019	Installed & ok
2.	Deluxe Conductivity meter	LT-26	1	9250	9250	Labtronics	06/8/2019	Installed & ok

3.	Digital Cum	AM-	1	10312	10312	Lutron	06/9/2010	Installed &
3.	Digital Cup Anemometer	4201	1		10312	Lutron	06/8/2019	ok
4.	Digital Water Bath	BTI-57	1	15500	15500	Biotechnics	06/8/2019	Installed & ok
5.	Senior Rotary Microtome	MT- 1090A	01	50075	50075	Weswox	06/8/2019	Installed & ok
6.	Soil & Water analysis Kit	LT-59	01	36000	36000	Labtronics	06/8/2019	Installed & ok
7.	Student Compound Microscope	NA	17	3500	59500	Labby Scopes	06/8/2019	Installed & ok
8.	UV Chamber (Ultra Voilet Inspection Cabinet)	BTI-49	01	6600	6600	Biotechnics	06/8/2019	Installed & ok
9.	Vaccum Pump (Oil Free Diaphram Type)	TID-25- S	01	10500	10500	Biotechnics	06/8/2019	Installed & ok
10.	Laboratory Oven	BTI-29	01	12800	12800	Biotechnics	06/8/2019	Installed & ok
11.	Digital balance 0.5grm to 10kg	NA	01	7800	7800	Tapson	06/8/2019	Installed & ok
12.	Digital Turbidity meter	LT-33	01	12000	12000	Labtronics	06/8/2019	Installed & ok
13.	Heamocyto meter	NA	01	1750	1750	Indian	06/8/2019	Installed & ok
14.	Electrophoresis Apparatus power supply with Horizontal Gel Apparatus	EQ760/7 52	01	27000	27000	Equiptronics	06/8/2019	Installed & ok
15.	Microscope with Live LED screen	LED-08	01	82917	82917	Spark - X	06/8/2019	Installed & ok
16.	Cork borer set of 12 German pattern	NA	1	3150	3150		06/8/2019	Ok in use
17.	Wet & Dry Thermometer	NA	2	1050	2100	Dimple	06/8/2019	Ok in use
18.	Maximum and Minimum Thermometer	NA	2	1100	2200	Dimple	06/8/2019	Ok in use
19.	Micro- pipette Variable 2 to 20ul	NA	01	3000	3000	Biosystem (shine)	06/8/2019	Ok in use
20.	Micro- pipette Variable 20 to 200ul	NA	2	3000	6000	Biosystem (shine)	06/8/2019	Ok in use
21.	Micro- pipette Variable 100 to 1000ul	NA	03	3000	9000	Biosystem (shine)	06/8/2019	Ok in use
22.	Soil Thermometer 12"	NA	02	650	1300	Indian	06/8/2019	Ok in use
23.	Mortar & pestle Agate 2"	NA	03	475	1425	-	06/8/2019	Ok in use
24.	Mortar & pestle Agate 4"	NA	03	775	2325	-	06/8/2019	Ok in use

25.	Secateures	NA	06	550	3300	Folcon	06/8/2019	Ok in use
26.	H-J- C	-					00/0/2017	OK III USC
20.	Hedge Cutter	NA	03	650	1950	Folcon	06/8/2019	Ok in use
27.	Burette stand	NA	24	950	22800		06/8/2019	Ok in use
28.	Burette Clamp	NA	24	350	8400	-	06/8/2019	Ok in use
	double	77						On ill disc
		Total:			446954		W. The state of th	
		ST 18%			80452			
	Total amount	(Rs.) incli	uding GS	527406				

C) Department of Geography:

Sr. No.	Name of Item	Model	Nos./ Qnty	Cost / Unit (Rs.)	Total cost (Rs.)	Company	Date of Purchase	Installatio n Report
1	Plane Table	BPS- 003A	04	7400	29600	Best Products	24/8/2019	Ok in use
2	Prismatic Compass	NA	04	3900	15600	Best Products	24/8/2019	Ok in use
3	Dumpy Level	DL 12	02	6800	13600	Best Products	24/8/2019	Ok in use
4	GPS	Oregon 750	01	36300	36300	Gramin	24/8/2019	Installed & ok
5	Measuring Tape	NA	05	490	2450	Best Products	24/8/2019	Ok in use
6	Computer	Intel i7	01	52000	52000	Dell	24/8/2019	Installed &
7	Printer	Laser Jet 1005	01	16700	16700	HP	24/8/2019	Installed &
8	UPS	NA	02	1700	3400	Intex	24/8/2019	Installed & ok
			Total a	mount (R	s.)includ	ling GST: 18	39864/-	

Dr. Mohiuddin J.Shaikh

Coordinator
DBT-Star College Scheme
Mula Education Society's
Arts, Commerce & Science College, Sona

Muia Education Society's

Arts, Commerce & Science College, F

Tal. Newasa, Dist. Ahmednagar, Ch.

PRINCIPAL
Mula Education Society's
Arts, Commerce & Science College
Sonai, Tal. Newasa, Dist. A'nagar
Pin - 414105

13) Details of books and journals subscribed from DBT grant:

Sr.	Name of Book/ Journal	Publisher	Date of	Amount
No.			Purchase	(Rs.)
1.	Handbook of Water and	Atlantic Pub. New Delhi	15/4/2019	522.50
	Waste analysis			
2.	Manual of Soil Plant &	Astral Instrument Pvt.Ltd,	15/4/2019	945.25
	Water Analysis	New Delhi		
3.	Practical Experimental	VCH America	15/4/2019	4263.60
	Designs & Optimization			
	Methods for Chemists			
4.	Models in Chemical	BayneCV	15/4/2019	3819.00
	Science			
5.	Building Scientific	Benjamin W.A.	15/4/2019	4263.60
	Apparatus			

14) Qualitative improvements due to DBT support: Please highlight (5 salient lines)

Due to support from Department of Biotechnology, the college has made the following qualitative improvements in teaching – learning processes.

- 1. **Enrichment of Laboratories:** The institution could procure lot of essential equipments and instruments in the concerned departments. Each participating department, viz., Chemistry, Botany and Geography has purchased new instruments worth Rs. 1000000/-. This has enriched the departments and enabled us to them to conduct several new practical which could not be performed earlier and involve several students to take up project work. This has resulted in significant qualitative improvement in performing / conducting practical in the department and enabled the students to work on equipment.
- 2. Introduction of new Practical: During the two academic years, 2018-19 and 2019-
 - 20, after getting DBT grant, a total of 38 new practicals were introduced and conducted by the participating Departments. The Chemistry department could introduce 14 new practicals. Similarly department of Botany has introduced 15 new practicals and the department of Geography, 9 new practicals. This number was 28 during the last academic year and 38 during this academic year. Thus there was 35% increase in introduction of new practicals as compared to previous academic year (Fig. 1).

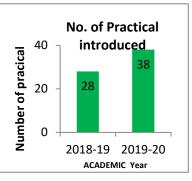
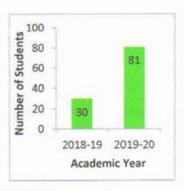


Figure 1

3. **Increase in Number of Student Participation in Execution of Projects:** Number of students undertaking project work has increased tremendously during the last two years. During the academic year 2018-19, only 30 students could undertake project

work in the departments, whereas during the last academic year 2019-20, the number has increased to 81 Thus due to DBT financial assistance there (Fig. 2). was a 2.7 fold increase in the number of students undertaking project work in the college. This is a great leap towards providing individual exposure to students to get firsthand experience on design and execution of projects. The students have acquired the skills of handling the instruments individually. This has also helped in inculcating / developing scientific aptitude in Figure 2 students.



- 4. Student Training Programs: The College has organized 6 student training programs during this academic year. They are 1. Student Development Programme, 2. Training Program on Interview techniques, Skills required for QC, QA and R & D work, Future in Chemical and Pharmaceutical Industry, 3. Training program on IPR -'Converting Idea to Patent', 4. Hands on training on 'Skill Development', 5. 'Bridging the gap between Traditional Knowledge and Current Technologies' and 6. Workshop on: 'Data Input and Data Collection from Villages'. All these training programs were attended by large number of students. This has helped in motivating the students and acquiring the required skills in facing interview, handling instruments, understanding the procedures of patenting etc.
- 5. Increase in number of Industrial / Field visits: During this academic year, the college has organized five field visits, one each by Chemistry and Botany departments, two by the department of geography and one combine all departments. This is almost double as compared to last year (Fig.3).

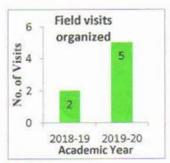


Figure 3

- 15) Problems faced, if any, in implementation of the programme and utilization of DBT grant (in two-three lines)
- 1. This year due to the Pandemic Covid 19, lockdown period was extended, so could not conclude the programme satisfactorily in a required way.

(Dr. Mohiuddin J. Shaikh)

Coordinator

Dr. Mohiuddin J.Shaikh Coordinator

DBT-Star College Scheme Mula Education Society's Arts, Commerce & Science College, Sonai



(Dr. Shankar 1 Laware)

PRINCIPAL Mula Education Society's Arts, Commerce & Science College Sonai, Tal. Newasa, Dist. A'nagar Pin - 414105

Glimpses of the Scheme

Hands on Tools





Department of Chemistry: Students performing practical under DBT Scheme





Department of Botany: Students performing practical under DBT Scheme





Department of Geography: Students performing practical under DBT Scheme

Glimpses of the Scheme Lectures and Demonstrations





Department of Chemistry: Lectures and Demonstrations under DBT Scheme





Department of Botany: Lectures and Demonstrations under DBT Scheme





Department of Geography: Lectures and Demonstrations under DBT Scheme

Glimpses of the Scheme Exhibition organized in the College by Students





Teachers, Parents and Students visit Exhibition organized by Geography Department



Exhibition of Models and Instrument



Flower and Bouquet Workshop



Flower and Bouquet Exhibition



New Entrepreneur Competition

Glimpses of the Scheme **Industry/Field Visits and Student Activities**





Industrial Visit to Sahyadri Agro Farms and Sula Vineyard, Nashik





Participation of student in poster presentation Student Development Program in IIC competition by SPP University, Pune







National Science Day Program

Minutes of DBT Advisory Committee Meeting

	00-11-0		
	Meeting -	/	
		Thursday -	13/06/2019
		J	
	The meeting of DBT-	- Star college	scheme
Adv	isory committee was held	on Thursday	13/06/2019
at	II-wan in IGAC	office.	
	Following members we	ine present	
	7		
1	1		
S. NO.	Name	Designation	Signatus
			1111-
1	Prin. Dr. S. L. Lawerl	Chairman	- Color
-	Prin. Dr. R. G. Pardeshi	Ext. Expert Fergusson collyc	(1316/70)
2	Pam. Dr. N. q. Taras	Fengusson college	13/01/0
3	Dr. M. J. Shaikh	a madana ba	M1 M
3	DT. 11. 3. Sharky	Co-ordinator	Milus
4	Dr. A. R. Tuwar	Vice Princepals	84
		Vice Principals H.D. Billing	get .
5	Prof. V. R. Phatake	HOD, Chemistry	Organine
6	Dr. R. V. Wagh	HOD, Geography	-शिवांची
	3		
7	Dr. V. C. Darandule	Coordinater, Bothy	(Demandel
8	Prof. AD. A. Thwan	Member-Bot	Dywan
9	prof. S. A. Majan	Member-che.	SAlaja
10	Prof M. S. Jangale	coord chem.	Jan
11	prof. Y. B. salve	Mem-che.	Brit.
12-	pnf. s. Z. Fakir	coord - Greo	371/2
13	prof. S. K. Auti	Mem Geo.	Doml.
14	Mr. S.K. Gadakh	Account officer	0
			90
		CP.T.	0.)

Minutes of the meeting No. - 09 subj The meeting of DBT- Ster College Scheme Advisory committee was held in presence of External Expert -Principal Dr R.G. Paroleshi, Fergusson college, Pune and charged by Principal or Shanker L Lawere, Following subjects were absoussed subject no - 1 To discuss income and expenditure occurred always financia year 2019-19 Resolution No. - 1 overall coordinator or M. J. Sharkh, put the statements of income and expensiture accounts in the meeting Total grant received from DBT. NEW DULLI - 41,00,000/-Interest carned from Bank - 1,25,511 -Total income - 42,25,511/-Expenditure on Non Recurring - 16,60,058/-- 10,22,494/-Expenditure on Recurring Total Expenditure - 26,82,552/-Balance amount for next 2019-2020 year was Rs. 15,42,958/-Subject No. - 2 Implementation of the scheme during next Americal year 2019-2020 Resolution No - 2 Principal or. R.G. Pardeshi, guided all committee members and departmental coordinators about effectively implementing the scheme during currentyear. He also quided about massive application of the scheme so as to benefit maximum number of students. It was decided to increase enrollment number of students. Even we can enroll students from Arts Faculty, ERA and

p. Noc faculties

	(3)
Subject No - 3	- to be 1
To increase number of minor	projects and
increase involvement of students	in projects
Resolution NV - 3	
It has been decided to increase	the number of
project allotment by all the three po	articipating departs
Each department will complect atteast h	ive projects and
minimum number of students will be t	two, where as
maximum number of students for a	such project will
he we stricted to force. All the fac	culty members
will be involved in either quiding t	the project shake
or will conduct add-on practicals	and alemnstruti
practicals.	
Subject No 4	
To increase inter-alisciplinar	y projects and
involvement of students other than	in Science Departm
Resolution No 4	
It has been alecialed to increase	inter alepartme
and inter-alisephnery activities to	make anomeness
 and involvement of students from A	Arts Humanities
Business Admininstrations and Vocah	ional courses.
 At least there shall be six minor	projects and
 involvement of twenty students	from different
departments, other than sorence	faculty
 departments, once the source	
	4V 101
 111	13/06/2019
	Dr. M. J. Shaikh
(Dr. S. Deamine)	Coordinator
Luis by 1	
x_	
^	

Meeting No _ 10 Monday - 23/09/2019 The meeting of Advisory committee of DBT- Star college scheme of Arts, commerce and science college, sonai was held on Monday, 23rd september 2019 at 12-ocpm in IGAC meeting hall Fellowing members were present for meeting 1) principal for S. C. Laware - charperson Mills 2) Dr. M J Shaikh - coordinator -(Zing) 3) Dr. R.N. Wagh - HOD. Geography -4) Mr. S.K. Gadakh - Account officer -5) Dy Dicrandello V.E. Co ordinator Herende 6) Tumar D. A. Member-Betany House 7) Salve Y.B. Member-chem. Gal-gr Member-Chem James 87 Pawar V.M. co-ordinatificography. 21/0 SHOUKAT FAKIR Mr. S.A. Najan meb. Chewisty stay's mr. V. R. phatoke HOD Chemistry Ofwhole Co-crelinator chamistry (1949) Mr. M.s. Jangale HOD Borany A. 13) Dr. A.R. Tuwar (P.T.O)

minutes of the meeting held on 23/04/2014 Subject No .- 1-Review of Non-Recurring quant for purchase of equipments Resolution No. - 1 As the time limit for purchase of equipments unalkn non-recurring grant head was upto 04/09/2019, the amount utilized for purchase of equipment was Rs. 13,40,833/against balance grant of Rs. 13,39,942/-. It has been noted that excess amount of 185. 8911 - is considered to be the college contribution under non-recurring head Subject No. - 2 -Raview of envolument of students under DBT- Ster college, scheme Resolution No - 12 -It has been noted that all the timee participating departments has envolled about 250 students from their own departments and about 60 students as interdisciplinary students from other departments and other fourthes. This is mainly to expand awareness of basic sciences amongst students prof other than Suence departments Subject No. 3 conduction of add on practicals and demonstrations Resolution No . - 3 -All the three perticipating departments are conducting add-on practicals of about 90 to 120 minutes duration for the envolled students. Some demonstration practicals have been conducted by respective teachers as extra classes (Dr. St Laware)
Principal Coordinator -x-x-

	Meeting No 11
	Thursday - 16/01/2020
	The meeting of advisory committee of DBT: star college
	Echeme of Mula Education Society's Arts, commerce and
	Scheme of Mula Education Society's Arts, commerce and Science college, Sorrai was held on Thursday 16th January
	2020 at 11-00 am in Sevinar Hall of the college
	Following members were present for meeting
	1) Principal Dr. S. L. Laware - Chairman -
	2) Dr. M. J. Shaikh - Overall Coordinator - Millish
	o) or. R.v. Magh - HOD Geography Fratt
	3) bt. k.v. magn
-	4) Mr. S K. Gadakh - Account officer -
	5) Dy Fanusce VE Co ordinator Hanusce
	6) Lake Y.B. Member Chem. DUB.
	7) Pawar V.M. Chen, Member Am
	A -
	By Tunar D.A Member-Botiny June
	10) Mr. S. A. Najan meb Chew SMj.
	11) Mr. VR. Phatake Hod, Chemistry Ofwhile
	12) Mr. M.S. Jangale Co-ordinator Observity (1)
	12) Mr. M.S. Jangale Co-ordinator Observity A.S. 13) Dr. A.R. Tuwar Hop Bofferny A. (P.T.O.)
	(Arress)



Minutes of the meeting heldon 16/01/2020



Subject No. - 1 -

Review of lectures conclucted by participating departments

Resolution No. 1 -

or V. C. Davanolule, coordinator of Botany, Mr. M.S. Jangue coordinator of chemistry and Mr. S. Z. Fakir, coordinator of Geography shown the details of lectures conducted oluning academic year 2019-2010. It has been noted that about 40% of planned lectures have been consolucted so far and they are advised to complete versioning till 28th February 2020.

Subject No. - 2 -

Review of Add-on practicals and alemonstration practicals as hands-on-tools

Resolution ruo - 2.

It has been noted that about 90% of planned practicals as hands on tools has been concluded conducted so four by the respective teachers of participating departments. It is also advised to complete remaining practicals before 15th February 2020.

Subject No. - 3 -

Review of projects assigned to students

Resolution No . - 3 -

All the three coordinators of Bolany, chemistry and Greegraphy has given data and summary about prejects.

It has been decided to keep the records of minor projects in the respective departments and will be provided for assessment as and when required.

(Dr St Laware)

Principal

(orm J Shaikh)

-x-x-