



Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur

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Attainment of Programme outcomes and course outcomes

Department of Mathematics

Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur									
M.Sc.									
Session - 2022 - 23									
Course Outcome Attainment Sheet									
Semester - IV		Name of Course - Dynamical Systems							
Subject - Mathematics		Paper - I							
Programme (Branch)	CO	Internal Exam (X)					Terminal Exam (Z)	Direct Attainment(T)=	Final CO Attainment (FCO)
		UT1	UT2	UT3	UT4	Total Internal Exam (X)			
M.Sc Mathematics	CO1	33.3333				33.3333	33.3333	33.33	33.33
	CO2		38.0952			38.0952	38.0952	38.10	38.1
	CO3			23.8095		23.8095	23.8095	23.88	23.88
	CO4				33.3333	33.3333	33.3333	33.33	33.33

Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur									
M.Sc.									
Session - 2022 - 23									
Course Outcome Attainment Sheet									
Semester - IV		Name of Course - Partial Differential Equations							
Subject - Mathematics		Paper - II							
Programme (Branch)	CO	Internal Exam (X)					Terminal Exam (Z)	Direct Attainment(T)=	Final CO Attainment (FCO)
		UT1	UT2	UT3	UT4	Total Internal Exam (X)			
M.Sc Mathematics	CO1	28.5714				28.5714	33.3333	30.95	30.95
	CO2		42.8571			42.8571	28.5714	35.71	35.71
	CO3			33.3333		33.3333	38.0952	52.38	52.38
	CO4				38.0952	38.0952	23.8095	33.33	33.33



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M.Sc.

Session - 2022 - 23

Course Outcome Attainment Sheet

Semester - IV		Name of Course - Advanced Numerical Methods							
Subject - Mathematics		Paper - III							
Program me (Branch)	CO	Internal Exam (X)				Total Internal Exam (X)	Terminal Exam (Z)	Direct Attainment(T)=	Final CO Attainment (FCO)
		UT1	UT2	UT3	UT4				
M.Sc Mathematics	CO1	33.3333				33.3333	28.5714	30.95	30.95
	CO2		38.0952			38.0952	33.3333	35.71	35.71
	CO3			38.0952		38.0952	19.0476	52.38	52.38
	CO4				28.5714	28.5714	9.5281	33.33	33.33

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M.Sc.

Session - 2022 - 23

Course Outcome Attainment Sheet

Semester - IV		Name of Course - Cosmology							
Subject - Mathematics		Paper - IV							
Program me (Branch)	CO	Internal Exam (X)				Total Internal Exam (X)	Terminal Exam (Z)	Direct Attainment(T)=	Final CO Attainment (FCO)
		UT1	UT2	UT3	UT4				
M.Sc Mathematics	CO1	33.3333				33.3333	33.3333	33.33	33.33
	CO2		38.0952			38.0952	42.8571	40.48	40.48
	CO3			23.8095		23.8095	14.2857	52.38	52.38
	CO4				33.3333	33.3333	33.3333	33.33	33.33

Department of Botany



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M.Sc. Botany

Session - 2022 - 23

Course Outcome Attainment Sheet

Semester - IV		Name of Course - Cell and molecular biology I							
Subject - Botany		Paper - I							
		Internal Exam (X)				Terminal Exam (Z)	Direct Attainment(T)= (X*0.6+Z*0.4)	Final CO Attainment (FCO)	
Programme (Branch)		UT1	UT2	UT3	UT4	Total Internal Exam (X)	Total Terminal Exam after End of Sem (Z)		
M.Sc Botany	CO1	72.727				72.7273	95.455	84.09	89.77
	CO2		95.455			95.4545	95.455	95.45	95.45
	CO3			90.9091		90.9091	90.909	52.38	52.38
	CO4				95.4545	95.4545	100	33.33	33.33

Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur

M.Sc. Botany

Session - 2022 - 23

Course Outcome Attainment Sheet

Semester - IV		Name of Course - Molecular biology and plant breeding							
Subject - Botany		Paper - II							
		Internal Exam (X)				Terminal Exam (Z)	Direct Attainment(T)= (X*0.6+Z*0.4)	Final CO Attainment (FCO)	
Programme (Branch)		UT1	UT2	UT3	UT4	Total Internal Exam	Total Terminal Exam after End of Sem (Z)		
M.Sc Botany	CO1	90.909				90.909	77.273	84.09	35.71
	CO2		95.455			95.455	72.727	84.09	30.95
	CO3			95.45		95.455	68.182	52.38	52.38
	CO4				95.455	95.455	86.364	33.33	33.33



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M.Sc. Botany

Session - 2022 - 23

Course Outcome Attainment Sheet

Semester - IV		Name of Course - Molecular biology and plant biotechnology							
Subject - Botany		Paper - III							
		Internal Exam (X)					Terminal Exam (Z)	Direct Attainment(T)= (X*0.6+Z*0.4)	Final CO Attainment (FCO)
Programme (Branch)		UT1	UT2	UT3	UT4	Total Internal Exam	Total Terminal Exam after End of Sem (Z)		
M.Sc Botany	CO1	90.909				90.9091	81.818	86.36	35.71
	CO2		95.455			95.4545	68.182	81.82	30.95
	CO3			95.45		95.4545	72.727	52.38	52.38
	CO4				95.455	95.4545	63.636	33.33	33.33

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M.Sc. Botany

Session - 2022 - 23

Course Outcome Attainment Sheet

Semester - IV		Name of Course - Plant resources							
Subject - Botany		Paper - IV							
		Internal Exam (X)					Terminal Exam (Z)	Direct Attainment(T)= (X*0.6+Z*0.4)	Final CO Attainment (FCO)
Programme (Branch)		UT1	UT2	UT3	UT4	Total Internal Exam (X)	Total Terminal Exam after End of Sem (Z)		
M.Sc Botany	CO1	90.909				90.9091	72.727	81.82	35.71
	CO2		95.455			95.4545	72.727	84.09	30.95
	CO3			95.45		95.4545	81.818	52.38	52.38
	CO4				95.455	95.4545	77.273	33.33	33.33

Department of Zoology



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Session - 2022 - 23									
Course Outcome Attainment Sheet									
Semester - IV			Name of Course - Biotechniques, Biostatistics, Ethology, Toxicology and Bioinformatics						
Subject - Zoology			Paper - 4T1						
Programme (Branch)		Internal Exam (X)				Total Internal Exam (X)	Terminal Exam after End of Sem (Z)	Direct Attainment(T)= (X*0.6+Z*0.4)	Final CO Attainment (FCO)
		UT1	UT2	UT3	UT4				
M.Sc (Zoology)	CO1	91.6667				91.6667	54.1667	72.92	33.59
	CO2		79.1667			79.1667	45.8333	62.50	4077
	CO3			58.3333		58.3333	45.8333	52.08	28.72
	CO4				87.5	87.5	37.5	62.50	29.74

Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur									
B.Sc.									
Session - 2022 - 23									
Course Outcome Attainment Sheet									
Semester - IV			Name of Course - Animal Physiology-II Physiology of Respiration and Reproduction						
Subject - Zoology			Paper - 4T3						
Programme (Branch)		Internal Exam (X)				Total Internal Exam (X)	Terminal Exam after End of Sem (Z)	Direct Attainment(T)= (X*0.6+Z*0.4)	Final CO Attainment (FCO)
		UT1	UT2	UT3	UT4				
M.Sc (Zoology)	CO1	13.3333				13.3333	53.846	33.59	33.59
	CO2		20			20	61.538	40.77	4077
	CO3			26.667		26.667	30.769	28.72	28.72
	CO4				13.333	13.333	46.154	29.74	29.74

Department of Chemistry



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M.Sc. ○									
Session - 2022 - 23									
Course Outcome Attainment Sheet									
Semester - IV		Name of Course - Spectroscopy							
Subject - Chemistry		Paper - IV							
Programme (Branch)		Internal Exam (X)				Total Internal Exam (X)	Terminal Exam (Z)	Direct Attainment(T) (X*0.6+Z*0.4)	Final CO Attainment (FCO)
		UT1	UT2	UT3	UT4				
M.Sc. chemistry	CO1	26.5717				26.5717	47.8263	37.17	37.17
	CO2		60.5076			60.5076	39.1306	50.00	50
	CO3			52.1739		52.1739	50.4240	41.30	41.3
	CO4				60.5076	60.5076	37.3913	39.13	39.12

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M.Sc.									
Session - 2022 - 23									
Course Outcome Attainment Sheet									
Semester - IV		Name of Course - Organic Chemistry							
Subject - Chemistry		Paper - I							
Programme (Branch)		Internal Exam (X)				Total Internal Exam (X)	Terminal Exam (Z)	Direct Attainment(T) (X*0.6+Z*0.4)	Final CO Attainment (FCO)
		UT1	UT2	UT3	UT4				
M.Sc. Chemistry	CO1	32.1739				32.1739	43.4703	47.83	47.83
	CO2		56.5717			56.5717	34.7026	40.65	40.65
	CO3			82.6887		82.6887	30.4346	56.52	56.52
	CO4				30.067	30.067	17.3915	18.74	18.75



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M.Sc.									
Session - 2022 - 23									
Course Outcome Attainment Sheet									
Semester - IV					Name of Course - Environmental Chemistry				
Subject - Chemistry					Paper - III				
Programme (Branch)		Internal Exam (I)				Total Internal Exam (I)	Terminal Exam (T)	Direct Attainment (T) (X*1.6+T*0.4)	Final CO Attainment (FOC)
		UT1	UT2	UT3	UT4				
M.Sc. Chemistry	CO1	75.924				75.924	72.924	41.42	61.59
	CO2		76.3217			76.3217	52.279	54.25	54.25
	CO3			60.5676		60.5676	76.3217	58.70	58.7
	CO4				47.8261	47.8261	84.7826	741.30	741.3

Training Programs

Pratyancha - A Workshop on Effective Pedagogy

A two-days workshop 'Pratyancha' on Effective Pedagogy was organised by IQAC for the faculty members on 29th and 30th July 2022 in the college auditorium. The trainers for the workshop were Dr. Arti Golhar, Dr. Megha Bhambri, Dr. Rupali Wanjari, Dr. Ragini Marganwar and Ms. Babita Yadao who were trained by MS-DEED at IISER, Pune during Level 2 workshop, supported by Dr. Damini Motwani, Dr. Pooja Mohobe and Dr. Aavish Patil who had successfully completed Level 1 workshop organised by MS-DEED.

During the inauguration, Dr. Ragini Marganwar introduced the workshop and explained the objectives of MS-DEED. Three sessions were planned for each day. During the sessions the trainers gave in-depth understanding on various tools and techniques of pedagogy which can be implemented to make teaching learning process more effective. Faculty members of Science, Commerce, Management and Humanities participated in the workshop with great enthusiasm. Dr. Zeenat Kashmiri, In-charge of Teaching and Learning committee explained the importance of the workshop. She encouraged the participants for active participation.

On day one, the first session was conducted by Dr. Megha Bhambri on the topic "Psychology of learners and learning". She explained that it's very important to understand the




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psychology of the learner learning process and learning situation to make the campus student friendly. The second session was conducted by Ms. Babita Yadao on the topic “Active Learning”. The objective of the session was to convince and encourage teachers to adopt activity-based learning pedagogies in order to make learning more effective. The third and last session of the first day was conducted by Dr. Arti Golhar on the topic as Developing effective learning objectives. She talked about the gap between the current and desired education system which is required as per NEP 2020.

On second day, the first session was conducted by Dr. Ragini Marganwar on the topic “Research Based Pedagogical Practices”. She emphasized how a Research Based Pedagogical Tool helps to develop research skill and deep content knowledge. RBPT is a very useful tool which can be used to teach topics for better understanding of the students. The second session was conducted by Dr. Rupali Wanjari on the topic, “Students Centric Teaching and Assessment”. She discussed the issues in the existing assessment approaches and the need for student centric teaching. Edutainment is one of the great techniques of teaching where education can be given by means of entertainment. By considering the same concept in the last session some number game activities, performances on syllabus topics through poem, song, play or act, story etc. were carried out. The activity definitely conveyed that education can be through entertainment also.

Lastly, feedback was taken from all the participants. Principal Dr. V. M. Pendsey congratulated MS-DEED Master trainers for the successful conduction of the workshop ‘Pratayancha’. Vice Principal Dr. S. V. Tewani, Dr. A. G. Thadani, Dr. M. M. Shinkhede, IQAC Coordinator Dr. Y. V. Bhute and Teaching learning committee incharge Dr. Zeenat Kashmiri appreciated the efforts taken by the MS-DEED trainers.




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Interactive Session




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Some glimpses of Workshop




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DADA RAMCHAND BAKHRU SINDHU MAHAVIDYALAYA, NAGPUR

PRATYANCHA

A workshop on effective pedagogy
An Initiative of IQAC

Conducted by
MS-DEED
Master Trainers
Dr. Megha Bhambri
Ms. Babita Yadao
Dr. Arti Golhar
Dr. Ragini Marganwar
Dr. Rupali Wanjari

Date: 29th and 30th July 2022
Time: 10:30 am to 03.30 pm

For all Senior College Faculties

Registration Link:
<https://forms.gle/VuG28HWEURnWSCpo9>

Schedule
https://docs.google.com/document/d/1nD4AO05Omcj_0HOfls-z3f4D95_Na2HT/edit?usp=sharing&ouid=102134055671585301257&rtfpof=true&sd=true




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D.R.B. Sindhu Mahavidyalaya , Nagpur 'PRATYANCHA'

A Workshop on Effective Pedagogy

SCHEDULE

Day 1: 29th July 2022

Fundamentals of the Innovative-Effective Teaching Approach

Time	Activity	Format	Trainer*
10.30-11.00	<i>Introduction</i>		<i>Ragini Marganwar</i>
11.00-12.00	Psychology of learner and learning	Presentation	Megha Bhambri
12.00-12.15	<i>Tea break</i>		
12.15-1.15	Active learning	Presentation	Babita Yadao
1.15-2.00	<i>Lunch Break (sponsored)</i>		
2.00-3.00	<i>Developing Effective Learning Objectives</i>	Presentation	<i>Arti Golhar</i>

Day 2: 30th July 2022

Time	Activity	Format	Trainer
10:30-11:00	<i>Reflection</i>		
11.00-12.00	<i>Research based Pedagogy Practices</i>	Presentation	<i>Ragini Marganwar</i>
12.00- 12.15	<i>Tea Break</i>		
12.15-1.15	<i>Active Learning, Assessment & Evaluation</i>	Presentation	<i>Rupali Wanjari</i>
1.15-2.00	<i>Lunch Break (sponsored)</i>		
2.00-3.00	Edutainment	Group Activity	Team Sindhu
3.00-3.30	<i>Discussion</i> <i>Review of workshop, feedback, next steps</i>		




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Feedback for session-I	Feedback for session-II by Ms. Babita G. Yadav on "A	Feedback for session-III	Feedback for session-IV	Feedback for session-V	Feedback for Session-VI	Any Suggestions:
Excellent	Very good	Nice	Good	Informative	Much-needed	Such workshops should be
Excellent, very informativ	Excellent	Good	Good	Good	Good	No
Nice talk on Psychology o	Very much activity based informative talk on active lea	Lecture on Effective learn	Informative Research toc	Students centric method	Really funful activities. E	Such types of full works dar
	Learned about how Active Learning works and	The Topic was presented	informative session		Wonderful	The session was wonder
It was very interactive ses	how we can engage students while giving lectures					Looking forward for more
Excellent	Very good	Very good	Very good	Very good	Very good	Thank you once again to po
Very nice	Useful	Very good	Knowledgeable	Very useful	Good	Very good workshop. Veri
Very lively session. With	Awesome explanation of contents in a very short per	With your session we co	This session was equally	With very easy examples	Simply mind blowing	on Such kind of session sho
Very nice and Informative	Superb one	Very much informative	Very nice from Students	Superb one	Nice	No
Content is Excellent. Pres	Activity allows all to remain alert so everyone can lean	First two sessions are thi	Heavy topic presented in	Student centric teaching	Excellent	everyone enj
Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	All teachers are interacti
Very well explained in an	Made the class active with different activities	Very well explained the t	Presented the topic by us	Very well Explained the c	Enjoyed the session with	No workshops should I su
Nicely presentation. word	Nice presentation. Enjoyed a lot in active learning mo	Nice activities. Really hel	Nice presentation. A res	Nice presentation hopefu	Enjoyed various games	Good organized and cond
Excellent Mam Simple m	Nicely explain	Very informative gap fill	Nicely explain heavy top	Very nice	Good	Such type of workshops i
Nice presentation	Nice presentation	Nice presentation	Nice presentation	Nice presentation	Nice presentation	No
Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excelsent and entertainin
Nice session. Learnt abou	Good session. How we can initiate active learning	Good session. We came	Good session. The lectur	Good session	It was nice. I enjoyed the	Nice efforts towards crea
It was a nice session.	It conveyed to us how we can initiate the appropriate	Good session. How we c	It was a nice session whi	The lecture was conduct	It was a real fun. The ac	Can hold similar kind of

Three-day MS-DEED Level 1 Workshop titled “Introduction to Effective Pedagogies”

A three-day Maharashtra State Development of Educators and Enhancement in Delivery Program (MS-DEED) Level 1 Workshop titled “Introduction to Effective Pedagogies” was organized by Dada Ramchand Bakhru Sindhu Mahavidyalaya and Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur in collaboration with IISER Pune on 17th, 18th, and 19th November 2022. The venue for the workshop was Shrinivas Ramanujan Hall, Department of Mathematics, Mahatma Jotiba Phule Campus, Nagpur, and the trainers were Prof. Mallika Pathak (Miranda House, University of Delhi, Delhi), Dr. Aaloka Kanhere (Homi Bhabha Centre for Science Education, Mumbai), Dr. Asim Auti, Dr. Manawa Diwekar, Ms. Sugandha Negi,



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Ms. Jasmine Duggal (IISER, Pune), Dr. Arti Golhar, Dr. Megha Bhambri, Dr. Rupali Wanjari, Dr. Ragini Marganwar, Ms. Babita Yadao (MS-DEED trainers of D.R.B. Sindhu Mahavidyalaya, Nagpur).

Day 1: 17th Nov 2022

MS-DEED Level 1, an in-person workshop for undergraduate & postgraduate teachers of Science and Mathematics was inaugurated on 17th November 2022 at the hands of Dr. Subhash Chaudhari, Vice Chancellor, R.T.M.N.U, Nagpur in the presence of Dr. Vishwajit Pendsey, Officiating Principal D.R.B. Sindhu Mahavidyalaya, Nagpur, and Dr. Asim Auti, MS-DEED Coordinator. On this occasion, Dr. Subhash Chaudhari and Dr. Asim Auti exchanged a letter of intent between the University & IISER. Dr. Subhash Chaudhari delivered the keynote address and motivated the participants to become a part of the change by attending and learning the Innovative – Effective Teaching approach which will help to contribute to the holistic development of the Higher Education system. Dr. Vishwajit Pendsey encouraged the participants and explained the vision for the program. Dr. Asim Auti introduced the theme, objective, and approach of the workshop.

In the first session, Dr. Asim Auti delivered his talk on “Aap, Mai Aur Hum” by quoting examples to explain that still now the teachers teach students, in the same traditional way but now change is the need of the hour. He made the participants clear that it's time to shift from teacher-centered teaching to student-centered teaching. He summed up the session by saying. “To teach is to touch a life forever”.

Dr. Asim Auti took the next session on “Effective Pedagogy”. He explained that pedagogies are constantly evolving which we need to study. Adhering to NEP 2020 guidelines, learners come first and we should focus on making effective deliverables. Every pedagogy is unique and useful, as long as it connects to meet tangible outcomes. He explained that we should use technology as a tool and not as a goal. We should learn to adapt and update. He also emphasized the thought that change is always for the good although it might be sometimes painful. He ended his session with the provoking key points that we should think long term, plan short term and teach for self-sustainability.




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The third session of the day was engaged by Dr. Manawa Diwekar on “Intended Learning Outcomes”. She covered some of the important topics of teaching like learning outcomes, learning outputs, intended learning outcomes, assessment, significance, and teaching road map. She also made us clear how to make the content of our lecture effective and interesting. She shared tips on how to design an effective classroom. She suggested that we can use contextual stories to make our classroom more fun-filled. She emphasized inquiry-based teaching.

Session 4, was taken by Dr. Asim Auti on “Assessment I: Purpose”. He briefed “assessment as a part of teaching and learning, assessment and evaluation in teaching, formative and summative assessment, assessment rubrics”. He elaborated on how assessment is probably the most ignored part of good teaching, so it is often the most intimidating. He emphasized that the primary goal of a teacher is to help students to develop thinking and achieve desired goals. He also explained the term “Metacognition” i.e., misconception document in which he guided teachers to search before teaching any topic and develop competency in the area of inquiry.

Session 5 was “Participant activity and output” by Dr. Manawa Diwekar encompassing a group activity on concept mapping and alignment with your curriculum and an overwhelming response was received from the participants. At the end of the day Reflection on all the daylong sessions was taken by the participants.

Day 2: 18th Nov 2022

The day started with the “Review of Day 1 Activities and Assignments” by Dr. Asim Auti, followed by break-out session which was subject-specific. The breakout session for Life Sciences was conducted by Dr. Manawa Diwekar, IISER, Pune, Dr. Megha Bhambri, DRBSMV, Nagpur, and Dr. Ragini Marganwar, DRBSMV, Nagpur. In this session, the inquiry-based learning process was explained

to the participants with the help of simple and easy experiments. The first experiment was to measure the “Volume of a drop” followed by a discussion with participants. Next was an introduction to Stomatal practical inquiry in which participants stepped out to collect the leaves to test their respective hypotheses.




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Sindhu Mahavidyalaya, Nagpur-17



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Participants experimented to measure the stomatal density and collection of data was done. This was followed by discussion, analysis of the data, and reflection. Participants were given the task to design their inquiry-based labs using the template.

The breakout session for chemistry was conducted by Prof. Malika Pathak from Miranda House, University of Delhi, Delhi, Ms. Sugandha Negi, IISER, Pune, and Ms. Babita Yadao, DRBSMV. Simple experiments viz. Double Displacement Reaction and Blue bottle experiments were carried out with participants through Inquiry Learning Process.

The objective of the session was to provide a subject-specific learning environment in a more comfortable space so that the exchange of ideas and learning can be easy. All the participants endorsed themselves in performing the experiments with the new exceptional thought process and come up with many queries which were discussed and solved by the trainers through an inquiry process. The session ended with a discussion about the lesson plan and assignment for the same.

The breakout session for Physics was conducted by Dr. Jasmine Duggal, IISER, Pune, and Dr. Arti Golhar, DRBSMV, Nagpur. Participants performed simple experiments like the Determination of the volume of a drop, the Determination of the speed of sound, Refractive index of a liquid through an inquiry-based learning process. Trainers showed participants stationary waves through easily available resources. After the session participants come up with new ideas for inquiry based experiments.

The mathematics breakout session was taken by Dr. Aloka Kanhere, HBCSE, Mumbai, and Dr. Rupali Wanjari, DRBSMV, Nagpur. In this session, inquiry-based graph modelling problems were assessed. The participants engaged in solving tasks, arriving at solutions & peer discussing solutions pointed out the requirements of resources & tools. This was addressed by hands-on training in mathematical software Geogebra. The participant noticed the effective use of Geogebra to support teaching and learning mathematics subjects, especially in geometry, Algebra, and statistics.

In the post-hands-on session, Dr. Asim Auti and Dr. Manawa Diwekar discussed types of formative assessments, designing your own innovative formative and summative assessments in the




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session named “Assessments II: Strategies”. At the end of the day review all the day-long sessions taken by the participants.

Day 3: 19th Nov 2022

The day started with the “Review of Day 2 Activities and Assignments” by Dr. Asim Auti, group activity of designing & presenting of Concept Map was conducted. Around 16 clubbed groups presented their assignment enthusiastically. The presentations were treated as case studies by peers and were marked with a critical view.

The last session was taken by Dr. Mallika Pathak on Setting SMART Targets (Action planning). She briefed how to prepare an action plan for adopting new innovative effective teaching at the HEI level. During this session, she explained the significance of smart targets in which S stands for specific, M for measurable, A for attainable, R for relevant, and T for time-bound. Not only this she has also given

tips on how to make smart targets, smarter in which E will stand to evaluate and to re-evaluate. In her session, she discussed blockers for implementation and also suggested enablers for achieving the goals of empowering the students.

A total of 192 participants registered for the workshop, out of which 92 were male and 100 were female, covering 12 districts of Maharashtra i.e., Ahmednagar, Bhandara, Chandrapur, Gadchiroli, Gondia, Jalgaon, Mumbai city, Mumbai suburban, Nagpur, Nanded, Wardha, and Yavatmal. In-person 101 participants attended the workshop, 24 from physics, 17 from Mathematics, 42 from Life Sciences and 16 from Chemistry, and 02 from English. The workshop ended with a discussion on lessons learned, implementation plan and also suggestion for future improvement. This was followed by an Alumni meet

of MS DEED Master Trainers of Nagpur region. The closing remarks were given by Dr. Vishwajit Pendsey, regarding implementation of pedagogies at workplaces. He extended the platform of Dada Ramchand Bakhru Sindhu Mahavidyalaya, Nagpur, for all the collaborative activities.




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Inauguration of Workshop titled “Introduction to Effective Pedagogies” at the Hands of Dr. Subhash Chaudhary, VC, RTM Nagpur, Nagpur.



**Maharashtra State Development of Educators
& Enhancement in Delivery
Programme
Level 1 Workshop**




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Hands-On @ Life Science



Hands-On @ Physical Science



Hands-On @ Chemical Science



Hands-On @ Mathematics




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