S.S.E.S.A's

Science College

Congress Nagar, Nagpur

Certificate course in Groundwater Exploration

Session 2019-2020

Notice

It is hereby notified to all the students of Certificate course in Groundwater Exploration that their classes will be commenced from 31 March 2019 regularly. Therefore, they are asked to attend the classes on regular basis. All the classes will be running simultaneously with the UC regular classes as mentioned in the timetable.

Course - coordinator





RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1" of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI or 2017)

DEPARTMENT OF LIFELONG LEARNING AND EXTENSION

Gurunanak Bhavan, University Campus, Amravati Road, Nagpur - 440 033. Phone : 2530860 E-mail: doll.rtmnu@gmail.com

To,

The Principal

Shivaji Science College,

Dated: 16.10. 2019

Nagpur,

9423 103043 Subject: Sa

Sanction for Conducting Short Term Courses under Jeevan Shikshan Abhiyan on No Grant Basis.

Sir/Madam,

With reference to your proposal for conducting Short Term courses indicated below under Jeevan Shikshan Abhiyan of this Department, I am to inform you that your proposal has been accepted by the Department and your College has been granted permission to conduct the course on the following conditions:

Details of the Course

Sr. No.	Name of the Course	Duration	No. of Candidates to be admitted	Fees to be Charged per Student	Fees to be Deposited With the
<u> </u>	Diploma Course in Groundwater Exploration	8 Weeks	20	1200/-	Deptt.
2	Diploma Course in Statistical Quality Control	10 Weeks	16	850/-	10%
3	Diploma Course in Immune-Diagnostics	8 Weeks	20	2200/	10%
4	Diploma Course in Environmental and Water Management	6 Weeks	10	1000/	10%
5	Diploma Course in Mushroom Cultivation	8 Weeks		1000/	10%
6	Diploma Course in Biofertilisers and Biopesticides	14 Weeks	20	1500/	10%
7	Diploma Course in Forestry and Wild Life Management	6 Weeks	20	1500/	10%

Rules & Regulations of this Department regarding these courses should be strictly followed.

- This sanction is valid for this particular Batch only. 1.
- Fees for the course should be charged as per the norms prescribed. 2.
- Expenditure on the course should be incurred as per norms. 3.
- Course should be started within a Month from the date of sanction. 4. Please communicate your acceptance within a month and submit Initial Report Along with list of students admitted.

Your's faithfully, prwaterch

Director

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CLIENCE CONECO. CONGRESS NEOSI, NEODUL-40.00.12 Guest rescretived by 10/10 February & A Conce with Foreign 11 cellular 1996. Tel: 451 0-712 7422437 (b), Teleten: 451 712 74408FE

Application for Admission to Skill based course.	
O, The Principal, Science College Congress Nagar, Nagpur-12	
R/Sir. I hereby apply for admission to the above course. I shall abide by the rules and regulations of the concerned department and college.	
Signature of the applicant	
PARTICULARS TO BE FILLED IN BY THE CANDIDATE: 1) Full Name (Block Letters) ROCHITA RAMESH BANSOD 2) Details of last exam. passed/failed/group/ percent marks obt. PASSED 65%	\$ >
3) Name of Skill base programme to apply: <u>UROUND WATER EXPLORATION</u> C 4) Details of other courses Applied/admitted 5) Date of birth: <u>Og /O± /2002</u> Contact No. <u>Q\$11275935</u> E-mail. <u>Yucholabansod ogo12002 @ gmail</u> . com 6) Information of Father / Guardian: a) Full Name: <u>RAMESH SHIVDAS BANSOD</u> b) Occupation: <u>TEACHER</u> c) Annual Income: <u>U\$1000</u> d) Contact No. <u>9765928721</u> e) E. mail <u>Yamesh bansod 2011 @ gmail</u> . com	
Postal address of student for correspondence: Sant Tukcloss ward, psimpalgaon roach, sant tukcloss ward, Hinganghat Signature of the applicant	
Declaration of Father or Guardian	
I declare that the applicant is my son / daughter / ward and the	

particulars given above by him / her are correct and shall see that he / she observes all the rules of the college.

Signature of the father / Guardian.
Full Name. Ramesh Banson
Address Psmpal gapn xodo

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR IN COLLABORATION WITH

SHRI SHIVAJI SCIENCE COLLEGE, CONGRESS NAGAR, NAGPUR-12

SYLLABUS FOR DIPLOMA COURCE IN GROUNDWATER EXPLORATION

(With effect from academic year 2019-2020)

The skill based Diploma course syllabus for B.Sc. I, II and III appearing student is 06 weeks Diploma Course in Groundwater exploration. The examination of Course shall comprise of theory paper of 3 hours caring 75 marks and a practical of 3 hours duration caring 50 marks. Project based on the carries 25 marks. Candidates are expected to pass separately in theory, Project and practical examinations.

The student requires 40% marks in theory for passing including the project marks. Separate passing in practical examination is required.

Structure of syllabus for diploma course along with distribution of marks is also displayed in the following table.

Course	Theory Papers and practical's		Marks				
		Theory	Internal Assessme nt (Project)	Practical			
Diploma Course in Groundwater Exploration	Theory paper – GROUNDWATER EXPLORATION (HYDROGEOLOGY) Practical based on Toposheet reading and well Inventory	75	255	50	150		
		Grand Total			150		

Internal Assessment:

Based on Students attendance and the performance in field work and Project report.

Syllabus Certificate Course in Groundwater Exploration (Hydrogeology)

Unit I

Defination of Precipation, Precolation, runoff, evaporation and transpiration, hydrogeology cycle. Occurence and distribution of groundwater. Zone of aeration and saturation, water table, cone of depression and recharge.

Unit II

Influent and effluent seepage and springs. Elementasry idea about groundwater flow.

Hydrogeologic characteristics of different types of rock

Unit III

Aquifer and their classification. Groundwater management: Artificial and natural groundwater recharge. Groundwater province of India. Groundwater conditions in different parts of Maharashtra.

Unit IV

Concept of watershed management. Preparation of hydrogeological maps, statistical analysis of hydrogeological data and use of computer based technique for data anylisis and interpretation.

Practicals

- 1. Problems on aquifer properties of groundwater.
- 2. Well inventory
- 3. Water table contour map

Teaching Plan Certificate Course (15 weeks) Groundwater Exploration (Hydrogeology)

Weeks	Theory/ Practical	Hours	Content						
Week I	Theory I	ı	Definition of Precipitation, Percolation.						
	Theory II	11	Brief idea about Precipitation, Percolation (Continued)						
	Theory III	111	Definition of runoff, evaporation and transpiration						
Week II	Theory I	IV	Brief idea about Runoff						
	Theory II	V	Brief idea about evaporation						
	Theory III	VI	Brief idea about transpiration.						
Week III	Theory I	VII	Introduction to hydrological cycle						
	Theory II	VIII	Hydrogeology cycle.						
	Theory III	IX	Hydrogeology cycle.(Continued)						
Week IV	Theory I	X	Zone of aeration and saturation.						
	Theory II	XI	Zone of aeration and saturation,						
	Theory III	XII	Zone of aeration and saturation,						
Week V	Theory I	XIII	Zone of aeration and saturation,(Continued)						
_	Theory II	XIV	Water table						
	Theory III	XV	Cone of depression						
Week VI	Theory I	XVI	Recharge of groundwater						
	Theory II	XVII	Elementary idea about groundwater flow.						
	Theory III	XVIII	Elementary idea about groundwater flow.(Continued)						
Week VII	Theory I	XIX	Hydro geologic characteristics of different types of rock						
, veek viii	Theory II	XX	Hydro geologic characteristics of different types of rock.(Continued)						
	Theory III	XXI	Aquifer and their classification.						
Week VIII	Theory I	XXII	Aquifer and their classification.(Continued)						
Week VIII	Theory II	XXIII	Groundwater management: Artificial recharge.						
	Theory III	XXIV	Groundwater management: Artificial recharge.(Continued)						
Week IX	Theory I	XXV	Groundwater management: natural groundwater recharge.						
	Theory II	XXVI	Groundwater management: natural groundwater recharge.(Continued)						
	Theory III	XXVII	Groundwater province of India.						

Neek X	Theory I	XXVIII	Groundwater								
	Theory II	XXIX	Groundwater conditions in different ports								
Theory II XXIX Groundwater province of India.(Continual Maharashtra. Theory III XXX Groundwater conditions in diff Maharashtra. Veek XI Theory I XXXI Groundwater conditions in diff Maharashtra.(Continued) Theory II XXXII Concept of watershed management. Theory III XXXIII Preparation of hydrogeological maps Week XII Theory I XXXIV Preparation of hydrogeological maps Theory II XXXV statistical analysis of hydrogeological of Theory III XXXVI Detail information about Aqua meter/ III Week XIII Problems on aquifer properties of groundwater province of India.(Continual) Maharashtra. Concept of watershed management. Concept of watershed management. Theory III XXXIII Preparation of hydrogeological maps Theory III XXXVI Detail information about Aqua meter/ IIII XXXVIII Problems on aquifer properties of groundwater province of India.(Continual) Maharashtra. Theory II XXXII Concept of watershed management. Theory III XXXIII Preparation of hydrogeological maps Theory III XXXIV Preparation of hydrogeological maps Theory III XXXIV Preparation of hydrogeological of the preparation of hydrogeological maps Theory III XXXIV Preparation of hydrogeological maps	Groundwater conditions in different parts of										
Week XI	Theory I	XXXI	Manarashtra.(Continued)								
	Theory II	XXXII	Concept of watershed management.								
	Theory III	XXXIII	Preparation of hydrogeological maps								
Week XII	Theory I	XXXIV	Preparation of hydrogeological maps (continued)								
	Theory II	XXXV									
	Theory III	XXXVI	Detail information about Aqua meter/ Resistivity meter								
Week XIII	Practical I	Practical I XXXVI Problems	Problems on aquifer properties of groundwater								
	Practical I	XXXVIII	Problems on aquifer properties of groundwater								
	Practical III,	XXXIX	Well inventory								
Week XIV	/ Practical I	XXXX	Well inventory								
	Practical II	XXXXI	Water table contour map								
	Practical III	XXXXII	Water table contour map								
Week XV	/ Practical I	XXXXIII	Aqua meter								
	Practical II	XXXXIV	Resistivity meter								
	Practical III	XXXXV	Resistivity meter								

S.S.E.S.A's Science College, Congress Nagar, Nagpur Certificate Course Time Table

Groundwater Exploration (Hydrogeology)

2019-2020

Days	Class	Certificate Class (9-10)	10:00	10:48- 11:36	11:38 - 12:26	12:44	1:32	2:20	3:08	3:56	4:44 5:3
Monday	B.Sc. II	,			(PBZ)			(ADF)			
	B.Sc. IV					Prac	t G1 G2- (PNK+PI				
t	B.Sc.VI		(ADF)			Flac	(0102 (-
Tuesday	B.Sc. II				(PBZ)			(PBZ)			
, 4000,	B.Sc. IV					Pract	Pract G1 G2- (PNK+ADF)				
	B.Sc.VI		(ADF)				·	(PBZ)			
Wednesday	B.Sc. II	Certificate Class (ADF)		Pract G1- (PBZ	,	Pr	ract G1 G3- (ADF)			(ADF)	
	B.Sc. IV						(KCS)				
	B.Sc.VI			C1 /DNI/	1		,	(PBZ)			
Thursday	B.Sc. II	Certificate Class	s Pract G1- (PNK)		(ADF)						
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(PBZ)				Pr	act G1 G3- (ADF)			(AD1)	
	B.Sc. IV						(PNK)		Duna	: G2 G3- (PN	uk)
	B.Sc.VI					(PBZ)			Prac	(GZ G3- (F)	VI ()
Friday	B.Sc. II	Certificate Class					75 (185)				
,,,,,,,		(PBZ)			(ADF)	Р	ract G2-(ADF)	(007)			
	B.Sc. IV			Pract G3- (PBZ)			(PBZ)	Dract G	G3_ (DB7 -	PNK)
	B.Sc.VI					(PBZ)			Practica	203- (FD2	i i i i i i i
Saturday	B.Sc. II				(ADF)	P	ract G2- (ADF)	(1400)			
Saturday	B.Sc. IV			Pract G3- (PBZ)			(KCS)			
	B.Sc.VI										

of Geoles

NOTICE

Shri. Shivaji Science College Nagpur, Congress Nagar Nagpur, Geology Department

Short listed candidates for skill based certificate course

Groundwater Exploration

<u>2019-20</u>

Sr. no	Student name
1	Aditi Chavre
2	Aditi Joardar
3	Vedant Patwa
4	Bhuvan Pashine
5	Naina Bhalerao
6	Ketki Mohatkar
7	Sejal Motghare
8	Rutuja Shende
9	Simran Ninawe
10	Anchal Khatke
11	Pallavi Nitnaware
12	Ruchita Bansod
13	Gauri Zodape
14	Atul Nikose
15	Rohan Mankar
16	Parul Dhakate
17	K.R. Shete
18	Chankshi Masram
19	Rahul Bhusele
20	Shreya Thakre

Date: 30/08/2019

Place:Nagpur

Mr. S.K. Paunikar
Asst. Professor (CHB)
Department of Geology

Shri Shivaji Education Society Amravati's Science College

Congress Nagar Nagpur

Certificate Course in Groundwater Exploration (Hydrogeology)

Attendance

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Sr. 1	Name of the			=		=	<u> </u>									
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1 (Sherya Thakre	P	•	P	P			+					-9			
2 4	r.g. Mohatkas	PP	PP	_	P	P		+								
3	S.S. Motghazo	PPI	P	P		P		+++								
4	A.S. Isardar	1	P		P	+-+		++-					1			
5	R.M. Pande	P	PP			P		++-								
6	p.k. Manhar	PP				1										
7	A.S. Chaware		1 0	1	٠	+++		+								
8 1	p.p. Dhakate	. 6	-	\sqcup	P	+ +	0	++-								
	N.S. Bhallerao				_	+	P	++-			+++		1			
10	R.A. Shende	PT	P	+	P	r		++-					100			
11	A.D. Khathe	PP	PP	P		P		++-								
12	HiR. Shete	P	P		P		+++	++-						3		
13	H.R. Wasehe	PP	rr		e P			++-								
14	P.K. Ninave	P	PP	P	r	P		++-								
15	B.D. Ambone	p	PP		P			+		+++				/an		
16	D-V. Nikose	8	P	P	P	+-+	p	++-								
17	Chankshi k #	PP	P	-	P			++-								
18	newcom				-			++-	+++		+ + + +					
19	R. R. Banson	1. P	P		PP	_	P	++-	+++							
20	A. A. Hinglashur B. S. Ambade	P	*	P	P	P		++-								
21	B. S. Ambade	P	P	P			p	++-	+	-						
22	A.B. Bansed	P	P	•	f	P	P	++								
23	R. Samuit	P	PP	1		5 \ \mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\mathcal{L}_{\	P	-	<u> </u>		1 1 1					
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Course Coordinator

Shri Shivaji Education Society Amravati's Science College Congress Nagar Nagpur

15 4 Sejal Sejal / Practical (2019 - 20) 5 丞 T P Pohan Adit Andrea Hardkumar R. Shelc Parrul Nous Handik R. Boseksii aimran E. Minak. Ruchita R. Bunsod. Bhargar D. Ambare Charakshy K. Magron . Athava A Hinglaspular Bhuron s. Ambade C. Habere Ruseya m. lande J. Washin 5. chaware. F. Mounkan Toosdar. TOSTACKET P. Draker. S. Bhalerao. A. Shende 5. Banga Samont. 3 7 Certificate Course in Groundwater Exploration (Hydrogeology) V V V V J Q Name of the Teacher: A D Fulati

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S.S.E.S.A's

Science College

Congress Nagar, Nagpur

Exam: Certificate course in Groundwater Exploration

Session 2019-2020

Time: 2	hours]	[Max. Marks-70
1. D 2. D	escribe the hydrologic properties of rocks. escribe the Maharashtra ground water provenance.	(5 M)
3. D	escribe various well logging principles.	(5 M) (5 M)
5. E	se of GIS technique in Ground water. xplain types and concepts of groundwater basin.	(5 M) (5 M)
	escribe electrical resistivity method. dentification of potential groundwater zones through study o	(5 M) f satellite imagery
	r photographs.	(30 M)
0 0		
8. P	roject	(10 M)

Course Coordinator

Accn	No	
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WELL INVENTORY

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Rashtrasant Tukodoji Maharaj Nagpur University, Nagpur Examination Summer 2020

Skill Based Programme

Certificate Course: <u>Groundwater Exploration (Hydrogeology) 2019-20</u>

Centre: S.S.E.S.A's Science College, Congress Nagar, Nagpur

Date: 03/11/2020

Total Marks: 80

Sr. No.	Name of Student	Theory Marks (30)	Practical Marks (30)	Assignment Marks (10)	Internal Assessment (10)	Total Marks (80)	Grade	That
1	Sherya C. Thakre	29	29	10	10	78	A+	0-1
2	Ketki S. Mohatkar	23	27	10	10	70	A	1/100
3	Sejal S. Motghare	30	30	10	10	80	A+	new
	Aditi S. Joardar	27	30	10	10	77	A+	Box
4		27	28	10	10	75	A+	IN R
5	Rupal M. Lande	27	30	10	10	77	A+	Dell
6	Rohan K.Mankar	28	29	10	10	77	A+	2 har
7	Aditi S. Chaware	21	28	10	10	69	В	Nai
8	Parul P. Dhakate	21	27	10	10	68	В	RW
9	Naina S. Bhalerao	29	28	10	10	77	A+	21.
10	Rutuja A. Shende		30	10	10	77	A+	Breeze
11	Anchal D. Khatke	27	29	10	10	77	A+	Her
12	Harshkumar R.	28	49					
	Shete	28	28	10	10	76	A+	Hur
13	Hardik R. Waseker		28	10	10	73	A	ST
14	Simran K. Ninave	25	27	10	10	66	Α	
15	Bhargav D. Ambone	19	27	10	10	72	Α	Atu
16	Atul V. Nikose	25	28	10	10	67	В	chour
17	Chankshi K.	19	20	10				6
	Masram	27	28	10	10	75	A+	
18	Ruchita R. Bansod	27	30	10	10	80	A+	A ~
19	Atharva A.	30	30					ahl
	Hinglaspurkar	27	28	10	10	75	A+	Izn
20	Bhuvan S. Ambade	27	26	10	10	75	A+	*
21	Ashish S. Bansod	29	26	10	10	63	В	1841
22	Kirti Kumrey	17	29	10	10	72	A	Rout
23		23	29	10				

College- Course Coordinator

Dr. A. D. Bobdey

(L)

Course Coordinator

Ms. P.B. Zamarkar

Shri Shivaji Education Society Amravat's

Science College

Congress Nagar, Nagpur Department of Geology

Certificate and Diploma course in Hydrogeology Exploration

Session 2019-2020

During the session classes and practical's were carried out. In this session field visit to college campus were done. Nearby wells were taken for the well inventory. The well inventory was carried out in the presence of Dr. Shah, Head Department of Geology, Shivaji Science College, Nagpur. The field tour was taken under the guidance of Ms. P. B. Zamarkar and Ms. A D. Fuladi.

In this session 23 students were enrolled for the certificate course in Groundwater Exploration, All the students were qualified with good grades.

Eleven students were present in the certificate course in the session 2019-2020. For the diploma course same students were carried out and in the session 2019 -2020, 8 Eleven students successfully qualified Diploma course.



Amarkar Caurse Coordinator



Rashtrasant Tukadoji Maharaj Nagpur University **Board of Lifelong Learning and Extension**

Gertificate

OF APPRECIATION

Awards this certificate to Shri/Smt./Ku. Sandip B. Malghati on satisfactory completion of the skill based course in Ground Water Exploration under Jeevan Shikshan Abhiyan run by Department of Lifelong Learning and Extension, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur in collaboration with Shri Shivaji Education Society Amravati's Science College, Nagpur from 31 / 03 / 2019 to 06 / 04

He/She passed at the Examination in Grade - 'A'

Course Co-coordinator S.S.E.S. Amt's Science College Congress Nagar, Nagpur

Principal S.S.E.S. Amt's Science College Congress Nagar, Nagpur

Director

Deptt. of Lifelong And Extension, R.T.M. Nagpur University