



Nehru Education Society

**Nehru Mahavidyalaya (Arts, Com. & Sci.),
Nerparsopant, Dist. Yavatmal.**

Affiliated to

Sant Gadge Baba Amravati University, Amravati.



3rd cycle

Assessment & Accreditation by NAAC

CRITERIA III - Research, Innovations and Extension

3.5 Collaboration

Metric No.:- 3.5.1

Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.



Nehru Education Society, Nerparsopant
NEHRU MAHAVIDYALAYA

* Arts * Commerce * Science

Nerparsopant, Dist.Yavatmal (M.S.) 445102
 Centre for Graduate, Post Graduate and Research Studies



PRINCIPAL

Dr. Ashok N. Bhorjar

M.A. (History), M.Phil., Ph.D.

Mob. 9421736793

PRESIDENT

Hon. Shri. Parmanandji S. Agrawal

M.Com.

Mob. 9421774699

Ref.No.NMV/Sr./Jr. ...3141/2023-24

Date :- 21/12/2023

Declaration

The information, reports, true copies of the documents, numerical data etc. functional in this file is verified by me and found correct.


 Principal

Dr. A. N. Bhorjar

Principal

Nehru Mahavidyalaya

[Arts * Commerce * Science]

Nerparsopant Dist.Yavatmal



3.5 Collaboration

3.5.1 Number of functional MoUs/linkages with institutions/ industries in India and abroad for internship, on-the-job training, project work, student / faculty exchange and collaborative research during the last five years.

Organization-Institute MoUs:

- ❖ The institution has three active MoUs with non-academic organizations which sets out opportunities for students.
- ❖ The institution has MoU with Aarsh Foundation, Nagpur for Skill development and training program under the guidance of Tribal Research and Training Institute, Pune and carried out by Aarsh Foundation, Nagpur.
- ❖ Many job-oriented courses are offered in co-operation with Career Katta for students and unemployed graduates.
- ❖ The institute organized various program collaboration with government local bodies like Tahsil office, Nagar Parishad and Panchayat Samiti office which help to implement the social activities for the betterment of the society.

Sr. No.	Name of Scheme	Collaborating Agency	First Party	Second Party	Document
1.	Add on Courses by Career Katta	Maharashtra Information Technologies Help Center (Career Katta), Maharashtra Shasan.	Principal, Nehru Mahavidyalaya (Arts, Com. & Sci.), Nerparsopant, Dist. Yavatmal.	Mr. Yashwant Shitole, President, Maharashtra Information Technologies Help Center (Career Katta), Maharashtra Shasan.	Photo 3.5.1.2 & Photo 3.5.1.3
2.	Police Pre-Recruitment Training	Maharashtra Information Technologies Help Center (Career Katta), Maharashtra Shasan.	Principal, Nehru Mahavidyalaya (Arts, Com. & Sci.), Nerparsopant, Dist. Yavatmal.	Mr. Yashwant Shitole, President, Maharashtra Information Technologies Help Center (Career Katta), Maharashtra Shasan.	Photo 3.5.1.4
3.	Skill development and training program under the guidance of Tribal Research and Training Institute, Pune.	Aarsh Foundation, Nagpur.	Principal, Nehru Mahavidyalaya (Arts, Com. & Sci.), Nerparsopant, Dist. Yavatmal.	Mr. Anil M. Jawade, Secretary, Aarsh Foundation, Nagpur.	Photo 3.5.1.5
4.					



Photo 3.5.1.1: The Function of signing MoU, Institutional MoU with Career Katta in Presence of Mr. Yashawant Shitole, President, Maharashtra Information Technologies Help Center (Career Katta), Maharashtra Shasan.

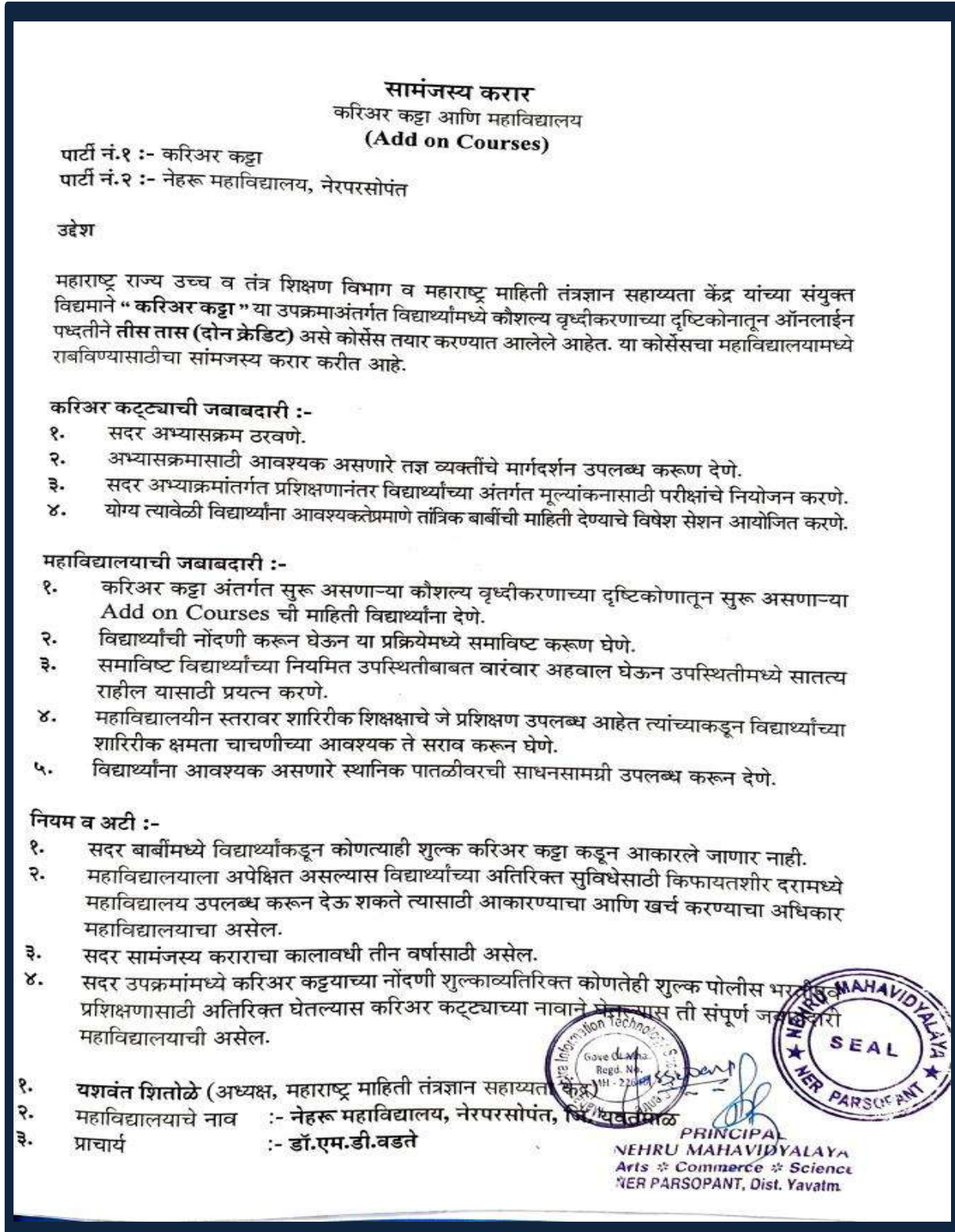


Photo 3.5.1.2: Institutional MoU with Career Katta for Add on Courses in Presence of Mr. Yashwant Shitole, President, Maharashtra Information Technologies Help Center (Career Katta), Maharashtra Shasan.

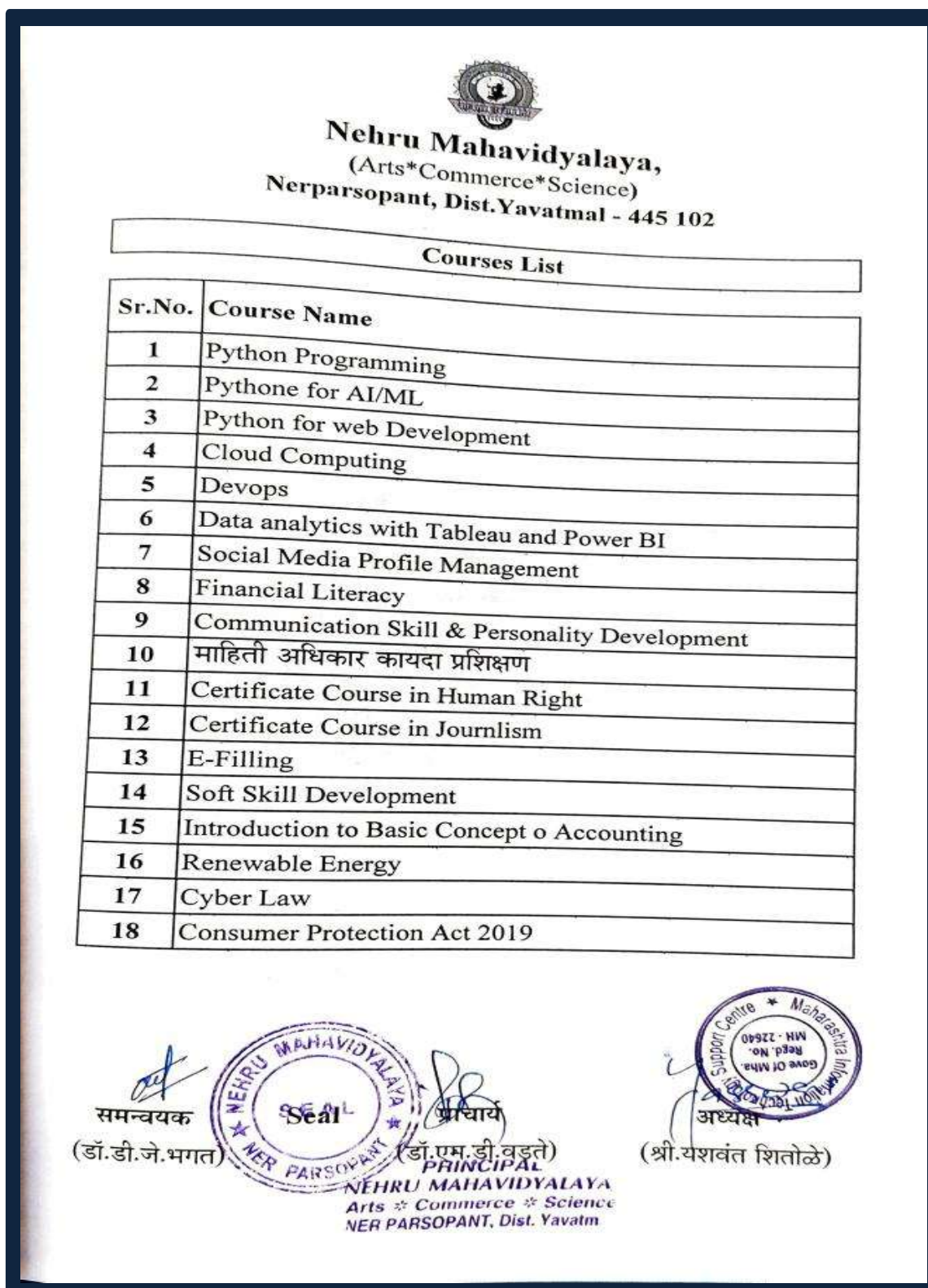


Photo 3.5.1.3: Institutional MoU with Career Katta for Add on Courses.

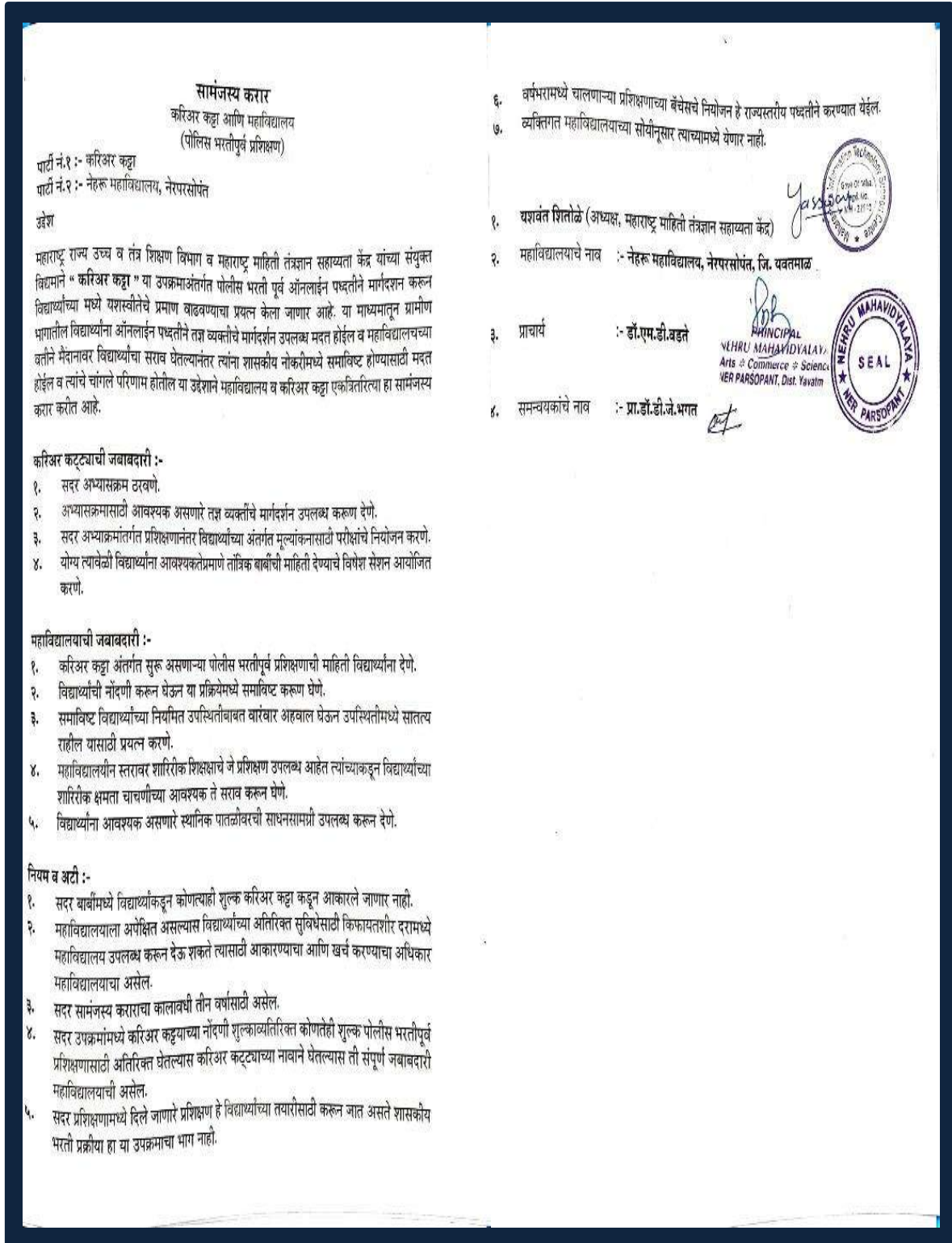


Photo 3.5.1.4: Institutional MoU with Career Katta for **Police Pre-Recruitment Training** in Presence of Mr. Yashawant Shitole, President, Maharashtra Information Technologies Help Center (Career Katta), Maharashtra Shasan.



हाराष्ट्र MAHARASHTRA

● 2022 ●

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17 JAN 2023

Stamp Head Clerk / Sr. Clerk

सामंजस्य करारनामा (MOU)

करारनामा लिहून देणार :- अनिल म. जवादे (सचिव)
आर्श फाऊंडेशन, नागपुर,
प्लॉट नं. 105, वैभव आनंद सोसायटी,
शंभु नगर, नागपूर 30

करारनामा लिहून घेणार :- प्राचार्य, नेहरु महाविद्यालय, नेरपरसोपंत
ता. नेरपरसोपंत, जि. यवतमाळ
संचालित.

आज दि. 27/01/2023 रोजी नेर मुक्कामी मी लिहून देतो की, करारनाम्यातील खालील अटी व शर्तीच्या अधिन राहून आर्श फाऊंडेशन नागपुर नोंदणी क्रं. 542 / 2018 (Skill Base Traning Programme) यांच्या उपयोगाकरीता लागणारी आणि नेहरु महाविद्यालय, नेरपरसोपंत ह्यांच्या इमारतीमधील असलेली कॉम्प्युटर लॅब व दोन क्लास रुम Sharing Basis वर देण्यात येईल.

आर्श फाऊंडेशन (Skill Base Traning Programme) नागपुर यांना नेहरु महाविद्यालय, नेरपरसोपंत यांच्या खालील अटी व शर्ती वाचून समजून करारबद्ध सत्र 2023-2024 याकरीता करून घेत आहोत.

11. मूल्य: 1000/- रु. की अनु. कमाक 2820 / दिनांक 23/9/2022
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- 1) कॉम्प्युटर लॅब मधिल काही तोडफोड व कॉम्प्युटर चे नुकसान झाल्यास त्याची जबाबदारी आर्श फाऊंडेशनची राहिल.
- 2) प्रशिक्षणाध्यांना लागणारे पाणी, प्रसाधन गृह, इलेक्ट्रीक व इतर मुलभुत सोई महाविद्यालय पुरवतील.
- 3) प्रशिक्षणासाठी लागणारे इतर साहित्य व शिक्षक वर्ग आर्श फाऊंडेशनची जबाबदारी राहिल.
- 4) नेहरु महाविद्यालयाच्या विद्यार्थ्यांना अतिरिक्त प्रशिक्षण मिळण्याच्या निस्वार्थी हेतूने केवळ महाविद्यालयाचा परिसर आर्श फाऊंडेशन, नागपूर यांना उपलब्ध करण्यात येत असून त्याबाबतचे कोणतेही मानधन महाविद्यालय किंवा विद्यार्थ्यांकडून देण्यात येणार नाही. सदर प्रशिक्षण पूर्णतः मोफत स्वरूपाचे असून केवळ विद्यार्थी हितासाठी सदर उपक्रम राबविण्यात येत आहे.
- 5) या प्रशिक्षणाला लागणारे शिक्षक व इतर कर्मचारी यांचे मानधन, तांत्रिक सहाय्य आर्श फाऊंडेशन देईल. या बाबत महाविद्यालयाचा कोणताही सहभाग असणार नाही.
- 6) सदर करार हा केवळ सत्र - 2023 याकरीता राहिल, करार 30 डिसेंबर 2023 नंतर आपोआप रद्द होईल.
- 7) वरील करारनामा हा परस्पर सामंजस्य प्रक्रियेने वरील अटी व शर्ती वाचून, समजून तसेच साक्षीदार समक्ष करून देण्यात येत आहे.

(अनिल म. जवादे) 8/2/23.

(सचिव)

आर्श फाउंडेशन


समन्वयक
(य. ज. जे. भगत)

प्रकाशिन सोड
लिहून घेणार
PRINCIPAL
NEHRU (प्रगत) VIDYALAYA
Arts * Commerce * Science
VER PARSONANT, Dist. Yavatm

लिहने घेणार
PRINCIPAL
NEHRU (प्रधान) VIDYALAYA,
Arts * Commerce * Science
VER PARSONANT, Dist. Yavatm

NEHRU (VERA) VIDYALAYA
Arts * Commerce * Science
VER PARSOPANT, Dist. Yavatm

VER PARSOPANT, Dist. Yavatm

VER PARSOPANT, Dist. Yavatm

समन्वयक
(श्री.एस.के.इंगळे)

List of students Enroll for the Skill Development Course:

Sr. No.	ID	Beneficiary Name	Gender	Date of birth	Age	Qualification	Caste category	District	City	Phone	Status
1	2413016	ACHAL MESHARAM	female	11-Jun-2001	21	HSC	SC, Buddhist	Yavatmal	Yavatmal	7823866893	Approved
2	2413044	ACHAL KALE	female	13-Nov-2001	21	HSC	OBC, Hindu	Yavatmal	Yavatmal	9322560719	Approved
3	2413066	AMARDIP KHANDALKAR	male	30-Sep-2002	20	HSC	OPEN, Hindu	Yavatmal	Yavatmal	9373052194	Approved
4	2413109	AMISHA KORAT	female	23-Mar-2003	20	HSC	OBC, Hindu	Yavatmal	Yavatmal	9579389699	Approved
5	2413133	APEKSHA MESHARAM	female	16-Feb-2002	21	HSC	SC, Buddhist	Yavatmal	Yavatmal	9307984680	Approved
6	2413156	ARTI INGOLE	female	05-Nov-2002	20	HSC	SC, Buddhist	Yavatmal	Yavatmal	7066259339	Approved
7	2413220	ASHWIN MEHATRE	male	27-Oct-2002	20	HSC	OPEN, Hindu	Yavatmal	Yavatmal	8421436207	Approved
8	2413283	ASMITA CHAVHAN	female	31-Jul-2002	20	HSC	VJ-A, Hindu	Yavatmal	Yavatmal	7620354202	Approved
9	2413295	ASMITA NAKTODE	female	26-May-2003	19	HSC	OBC, Hindu	Yavatmal	Yavatmal	8177929775	Approved
10	2413307	BHAGYASHRI PADHEN	female	21-Aug-2002	20	HSC	SC, Buddhist	Yavatmal	Yavatmal	8010229314	Approved
11	2413314	BHAKTI UNADKAT	female	05-Nov-2002	20	HSC	OPEN, Hindu	Yavatmal	Yavatmal	8010581988	Approved

Sr. No.	ID	Beneficiary Name	Gender	Date of birth	Age	Qualification	Caste category	District	City	Phone	Status
12	2413343	CHETAN SONONE	male	20-Jul-2003	19	HSC	OPEN, Hindu	Yavatmal	Yavatmal	9356246200	Approved
13	2413353	DIVYA LOKHANDE	female	05-May-2002	20	HSC	OPEN, Hindu	Yavatmal	Yavatmal	9322866411	Approved
14	2413369	DIYA GAYAKWAD	female	25-Oct-2002	20	HSC	SC, Buddhist	Yavatmal	Yavatmal	8208382989	Approved
15	2413378	GAURI KAVARE	female	08-Jul-2003	19	HSC	OPEN, Hindu	Yavatmal	Yavatmal	8010228071	Approved
16	2413391	GUNARTAN KAMBLE	male	16-Jul-1993	29	HSC	SC, Hindu	Yavatmal	Yavatmal	9503165495	Approved
17	2413410	ISHA CHUKEKAR	female	24-Oct-2002	20	HSC	OPEN, Hindu	Yavatmal	Yavatmal	9823321594	Approved
18	2413432	KAJAL PANDIT	female	14-Aug-2001	21	HSC	OPEN, Hindu	Yavatmal	Yavatmal	9657669196	Approved
19	2413446	KANCHAN CHAVAN	female	18-May-1999	23	Graduate	OPEN, Hindu	Yavatmal	Yavatmal	7028688904	Approved
20	2413462	KANUPRIYA SONTAKKE	female	28-Sep-2002	20	HSC	SC, Buddhist	Yavatmal	Yavatmal	9890022867	Approved
21	2413472	KIRTI MAHINDRAKAR	female	15-Jan-2002	21	HSC	OBC, Hindu	Yavatmal	Yavatmal	9284440537	Approved
22	2413484	KOMAL BHAKARE	female	18-Apr-2002	20	HSC	OPEN, Hindu	Yavatmal	Yavatmal	8805178017	Approved

Sr. No.	ID	Beneficiary Name	Gender	Date of birth	Age	Qualification	Caste category	District	City	Phone	Status
23	2413493	KOMAL GADEKAR	female	28-Feb-2003	20	HSC	OPEN, Hindu	Yavatmal	Yavatmal	7875980157	Approved
24	2413503	LAKHAN PAWAR	male	21-Oct-2002	20	HSC	OPEN, Hindu	Yavatmal	Yavatmal	7499475673	Approved
25	2413517	MANISH LONARE	male	11-Jan-2003	20	HSC	SC, Hindu	Yavatmal	Yavatmal	9499817906	Approved
26	2413526	MONALI GAYKWAD	female	16-Oct-2003	19	HSC	SC, Hindu	Yavatmal	Yavatmal	9322740169	Approved
27	2413537	NIKITA DESHAMUKH	female	16-Aug-2002	20	HSC	OPEN, Hindu	Yavatmal	Yavatmal	8378867443	Approved
28	2413547	NIKITA PANTAVANE	female	07-Feb-2004	19	HSC	SC, Hindu	Yavatmal	Yavatmal	7972841277	Approved
29	2413558	PALLAVI KAWARE	female	02-Jul-2004	18	HSC	OPEN, Hindu	Yavatmal	Yavatmal	9322629874	Approved
30	2413563	PRANAV GIRI	male	17-Jul-2002	20	HSC	OPEN, Hindu	Yavatmal	Yavatmal	7620137910	Approved



आर्श फाउंडेशन

32, बजरंग नगर, शिंगाबाई टाकली, कोराडी रोड,
नागपुर-30, 8087078899

REFERENCE NO.:-

DATE:-

प्रति,
मा.प्राचार्य,
नेहरू महाविद्यालय,
नेरपरसोपंत,
जि.यवतमाळ

विषय :- स्किल डेव्हलपमेंट ऑफ इंडिया अंतर्गत अभ्यासक्रम सुरू करणेबाबत...

महोदय,
वरील विषयाच्या अनुषंगाने कळविण्यात येते की, स्किल डेव्हलपमेंट ऑफ इंडिया अंतर्गत विद्यार्थ्यांसाठी विविध रोजगार अभ्यासक्रम आपल्या महाविद्यालयामध्ये सुरू करण्यास इच्छुक संस्था आहे.
कृपया परवानगी मिळावी ही विनंती.
धन्यवाद !

सचिव,
आर्शफाउंडेशन नागपूर
सचिव
आर्श फाउंडेशन

Photo 3.5.1.5: The institution has MoU with Aarsh Foundation, Nagpur for Skill development and training program under the guidance of Tribal Research and Training Institute, Pune.

Institute-Institute Research Collaborations:

The faculties of institution have research collaboration with faculty of other academic institutes and under which number of research articles were published up till now. The institute has eight functional research collaborations. The list of faculties who collaborate with other academic institutions are provided below.

Sr. No.	Name of Faculty	Collaborating Faculty Name	Collaborating Faculty College	Document
1)	Dr. D. J. Bhagat	Dr. G. R. Dhokane	Dept. of Physics, Arts, Science And Commerce college, Chikhaldara, Dist. Amravati.	Photo 3.5.1.6
2)	Dr. D. J. Bhagat	Dr. N. S. Bajaj	Dept. of Physics, Toshniwal Mahavidyalaya, Shengaon, Dist. Hingoli.	Photo 3.5.1.7
3)	Dr. V. D. Bokey	Dr. V. G. Mete	Dept. of Physics, R.D.I.K. & K.D. College, Badnera.	Photo 3.5.1.8
4)	Dr. V. D. Bokey	Dr. V. S. Bawane	Dept. of Physics, Mahatma Phule Arts, Commerce and S.C. Choudhary Science College, Warud, Dist. Amravati.	Photo 3.5.1.8
5)	Dr. V. D. Bokey	Dr. K. S. Adhav	Hawassa University, Hawassa, Ethiopia.	Photo 3.5.1.9
6)	Dr. P. S. Vishwakarma	Mr. M. V. Dambale	Sipna College of Engineering and Technology, Amravati, Dist. Amravati.	Photo 3.5.1.10
7)	Dr. P. S. Vishwakarma	Mr. V. P. Panjabi	Vidya Wardhini Sabha's , Dr. M. Y. Vaidya Arts, Prof. P. D. Dalal Commerce & Dr. D. S. Shah Science, College, Dhule.Dist. Dhule	Photo 3.5.1.11
8)	Dr. S. R. Jadhao	Dr. S. P. Bakde	Dept. of Physics, Shri. R. R. Lahoti Science College Morshi, Dist. Amravati.	Photo 3.5.1.12
9)	Dr. P. S. Vishwakarma	Dr. K. G. Dhobale	Smt. Kesharbai Lahoti Mahavidyalaya, Amravati.	Photo 3.5.1.13
10)	Dr. P. S. Vishwakarma	Dr. A. S.Nanwani	Dada Ramchand BakhruSindh Mahavidyalaya, Panchpaoli, Nagpur.	Photo 3.5.1.13
11)	Dr. P. S. Vishwakarma	Prof. G. N. Daga	Department of Commerce and Management, Brijlal Biyani Mahavidyalaya, Amravati.	Photo 3.5.1.14
12)	Mr. F. P. Sahala	Dr. B. B. Padhen	Phulsing Naik Mahavidyalaya, Pusad	Photo 3.5.1.15
13)	Mr. S. K. Ingle	Dr. S. J. Shenmare	Bhausahab Bhore Shivshakti Mahavidyalaya, Bhabhulgaon	Photo 3.5.1.16



Photo 3.5.1.6: Research Collaborations (Dr. D. J. Bhagat and Dr. G. R. Dhokane).



Photo 3.5.1.7: Research Collaborations (Dr. D. J. Bhagat and Dr. N.S. Bajaj).

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Research Article

INTERACTING DARK FLUIDS IN BIANCHI TYPE-I UNIVERSE WITH VARIABLE DECELERATION PARAMETER

Mete V. G.¹, Bokey V. D.² and Bawane V. S.³

¹Department of Mathematics, R.D.J.K. & K.D. College, Badnera-Amravati, India
²Department of Mathematics, Nehru Mahavidyalaya, Nerparsopant Dist. Yavatmal, India
³Department of Mathematics, Mahatma Jyoti Bapu, Gann, S.S. Chaudhari Science College, Warud, Dist. Amravati, Maharashtra, India

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Key words:
 Bianchi Type-I universe, variable deceleration parameter, interacting dark fluids, cosmological parameters.

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INTRODUCTION

The present acceleration of the universe has been well established through numerous and complementary cosmological observations. The recent cosmological observations of type Ia supernovae (SNIa) [Ries et al. [14], Perlmutter et al. [45]] indicates that currently universe is accelerating. When these results combined with the observations of cosmic microwave background (CMB) [Bennett et al. [16], Spergel et al. [46]] and also the large scale structure (LSS) [Cepmark et al. [48], [47]], indicate that spatially flat universe is dominated by an exotic component with strong negative pressure called as dark energy [Weisberg [79], Carroll [22], Peebles and Ratra [44], Padmanabhan [43]]. Many authors have been studied a special class of interacting models in which holographic dark energy is allowed to interact with dark matter [Gong [29], Gong and Zhang [28], Wang et al. [49], Nojima and Odintsov [40], Guo et al. [51], Banerjee and Paoletti [15], Zimdahl and Pavon [73], Zimdahl [70]]. Also Guo et al. [32], have shown that the proposal of interacting dark energy is compatible with current observations of the SNIa and CMB data.

Bianchi type dark energy models with usual perfect fluid have been studied by Akarsu and Kilinc [7], Yadav et al. [75].

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Interacting Dark Fluid in Kaluza-Klein Universe With Variable Deceleration Parameter in General Relativity

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Abstract:
 This paper is devoted to study Kaluza-Klein universe filled with interacting dark matter and holographic dark energy in general relativity. The cosmological solution is obtained by using the variable deceleration parameter in the form $\alpha(t) = [\sinh(\alpha t)]^{-1}$, where α and γ are constants. Some physical and geometrical properties of the model are also discussed.

Keywords: Kaluza-Klein space-time, dark matter, holographic dark energy, variable deceleration parameter.

Introduction:
 Several cosmological observations indicate that the observable universe is accelerating (Ries et al. 1998; Perlmutter et al. 1999; Bennet et al. 2003). To address the problem of cosmic acceleration there are two approaches that introducing a dark energy component in the universe or considers modifying the general relativity theory. The earliest modifications of Einstein's general relativity, termed as Brans and Dicke (1961) gravity in which a dynamical scalar field besides a gravitational part is introduced to an account for variable gravitational constant. It is introduced due to the lack of compatibility of Einstein's theory with Mach's principle. Later a scalar tensor theory of gravity has introduced by Saez-Ballester (1986) in which a metric is coupled to a scalar field. This coupling gives a satisfactory description of the weak fields. A detailed discussion of Saez-Ballester and strong cosmological model is contained in the study work of Sing and Agrawal (1991), Shri Ram and Tiwari (1998), D. R. K. Reddy et al. (2000), Adhav, K. S. et al. (2007, 2008).

The Kaluza (1921) and Klein (1926) introduced a theory to unify Einstein's gravity theory and electromagnetism from Einstein's field equations by adding the fifth dimension. According to Wesson (1984, 1999) and Ibellini (2003), the matter is induced 4D by 5D vacuum theory. Studying the cosmology of 5D with pure geometry in non-compact Kaluza-Klein theory. Several relativists have studied Kaluza-Klein cosmological models with different cosmological constants (1988), Chi (1990), Fukui (1993), Liu and Wesson (1994), Coley (1994).

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Photo 3.5.1.8: Research Collaborations.

(Dr. V. D. Bokey, Dr. V. G. Mete and Dr. V. S. Bawane).

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Bianchi Type-VI₀ Cosmological Model with Polytropic Equation of State

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Abstract:
 This paper deals with Bianchi type VI₀ cosmological model in the presence of perfect fluid obeying polytropic equation of state (EoS) $p = K\rho^n$, where K and n are constants called as polytropic constant and polytropic index respectively. The solutions of the Einstein's field equations for Bianchi type-VI₀ space time have been obtained under the assumption that the scalar expansion θ is proportional to the shear scalar σ^2 . The kinematic & physical properties of the model are also studied.

Keywords: Bianchi type-VI₀ Space time, Polytropic equation of state, Perfect Fluid.

1. Introduction:
 From the observations of large scale structures [18], cosmic microwave background [8,9], WMAP [4], it has been found that the universe is highly homogeneous and isotropic. The cause behind the acceleration of the universe has been attributed to the existence of dark energy component. It occupies 68.3% of the average energy density of the universe while dark matter comprises 26.8% and baryonic matter 4.9% as shown by Ade et al. [20]. Hence dark energy cosmological models of the universe with different equations of state have been a topic of interest for many researchers. There are many theories that have established the importance of dark energy in the acceleration of the universe. The models of dark energy includes tachyon field [25], chaplygin gas [30], Holographic dark energy models [3,32]. Adhav, et al. [14] has proposed homogeneous & anisotropic Bianchi type-I universe and holographic dark energy model with linearly varying Deceleration Parameter.

The FRW models are considered as the simplest models of the expanding universe which are spatially homogeneous and isotropic. Here the source of gravitational field is most naturally considered to be a perfect fluid whose matter density ρ and pressure p satisfy a Equation of State (EoS) of the form

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Photo 3.5.1.9: Research Collaborations (Dr. V. D. Bokey and Dr. K. S. Adhav).

About The Author



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- ★ He is the member of Board of Studies in Business Economics (Commerce and Management) at SGBAU, Amravati.
- ★ He is the Recognized Ph.D. Supervisor in the Faculty of Commerce and Management under the subject Commerce in the SGBAU, Amravati and under his guidance 02 registered students are doing Ph.D. research work.
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- ★ He is pursuing Ph.D from Sant Gadge Baba Amravati University.

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Photo 3.5.1.10: The Institute-Institute Research Collaborations.

(Dr. P. S. Vishwakarma and Mr. M. V. Dambale)

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Photo 3.5.1.11: The Institute-Institute Research Collaborations.

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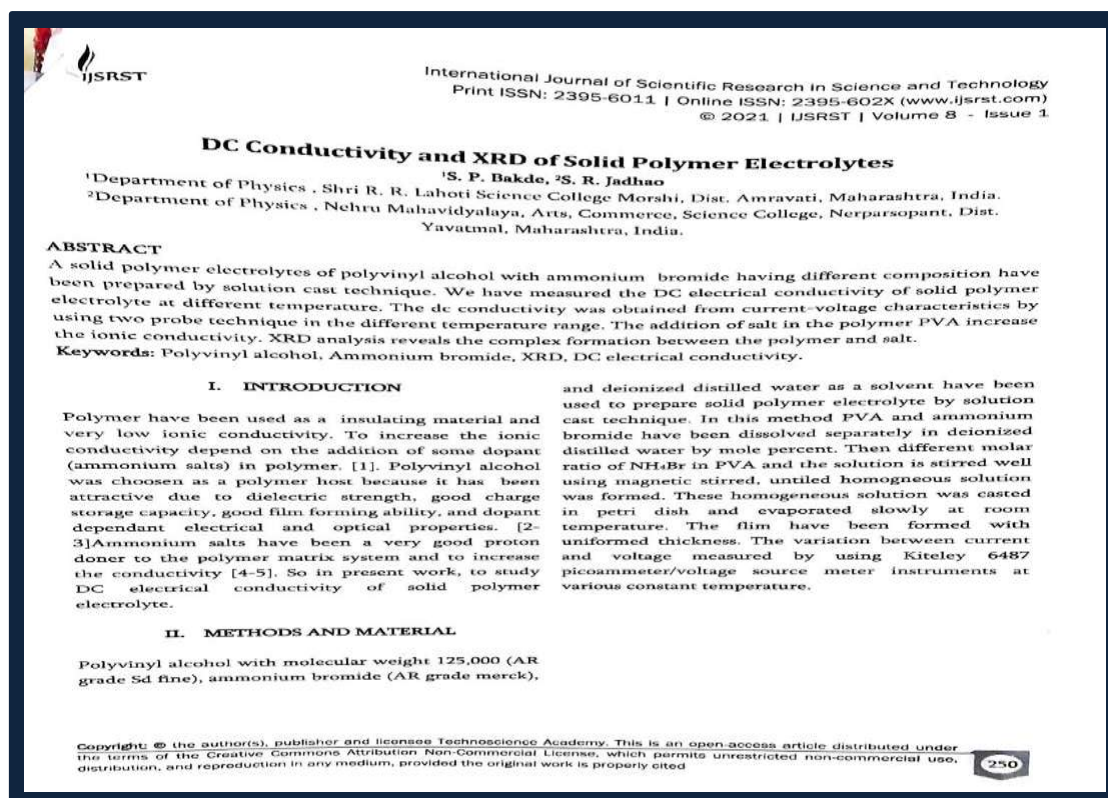


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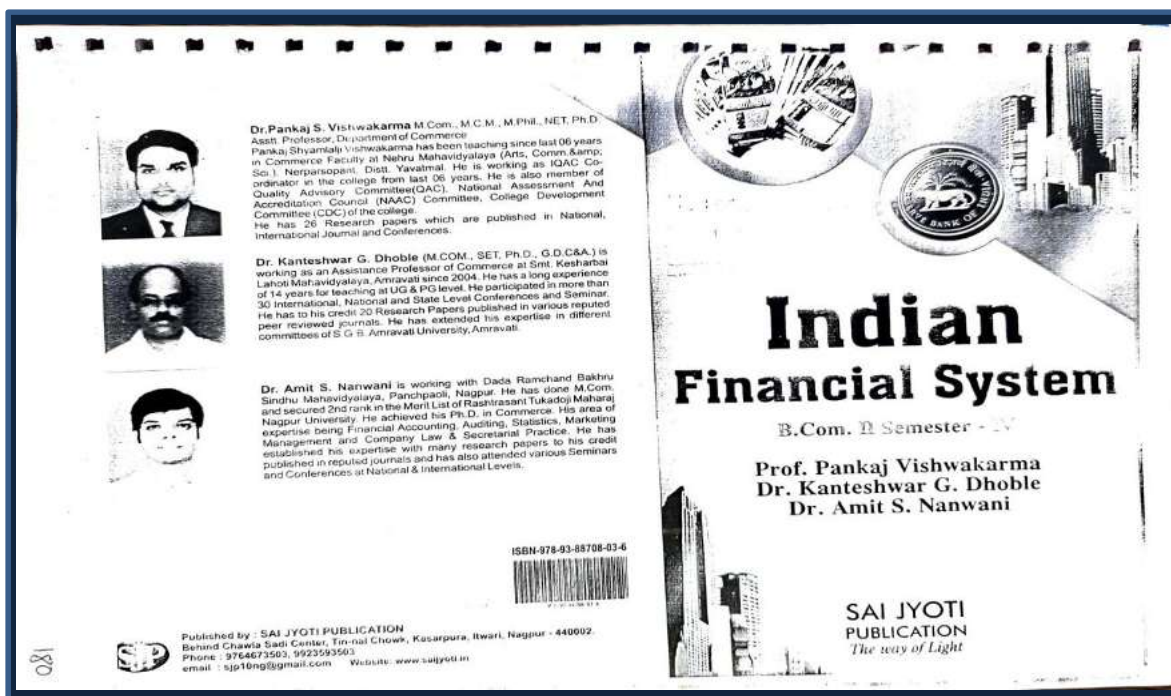


Photo 3.5.1.13: The Institute-Institute Research Collaborations.

(Dr. P. S. Vishwakarma, Dr. K. G Dhobale and Dr. A. S.Nanwani)

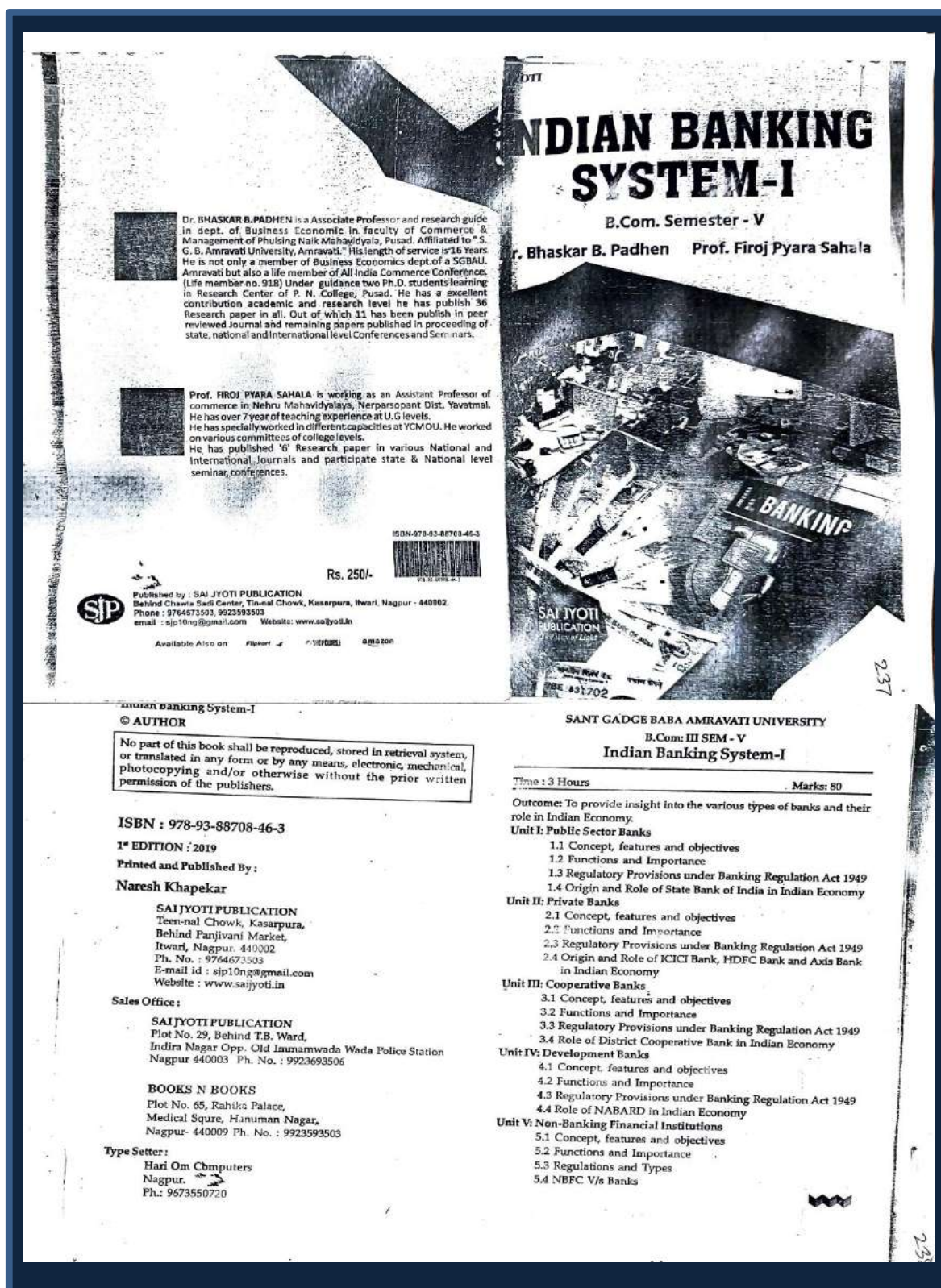


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ग्रंथालय व माहितीशास्त्र संशोधनामध्ये गृहीतकृत्य (Hypothesis) चे महत्त्व व उपयुक्तता		
सुरेश किसनराव इंगळे ग्रंथपाल नेहरू महाविद्यालय, नेरपरसोपंत जि. यवतमाळ. ईमेल आयडी:sureshingale666@gmail.com मोबाईल नं. ८०८७६०२२८८	प्रा.डॉ. संजय जगन्नाथराव शेणमारे ग्रंथपाल भाऊसाहेब भोरे शिवशक्ती महाविद्यालय बाभुळगांव जि. यवतमाळ ईमेल आयडी: sjshenmare@gmail.com मोबाईल नं. ९४२३६३४५४४	
सारांश : कोणत्याही समस्येचे संशोधकाला वैज्ञानिक पद्धतीने अध्ययन करावे लागते. त्यासाठी त्याला संबंधित विषयाचे थोड्या फार प्रमाणात पूर्वज्ञान आवश्यक असते. ग्रंथालय व माहितीशास्त्रामध्ये संशोधन करीत असताना खुदा या ज्ञानाच्या आणि अनुभवाच्या आधारे संशोधक आपल्या संशोधन विषयासंबंधी कोणते तरी सामान्य अनुमान निश्चित करतो हेच पूर्वानुमान संशोधकाला संशोधन कार्यासाठी मार्गदर्शक ठरते. ह्याच पूर्वानुमान (गृहीतकृत्य) मुळे समस्येच्या निराकरणा करिता मदत होते. सदर शोध निबंधामध्ये गृहीतकृत्याचा अर्थ, संतुलित गृहीतकृत्याचे वैशिष्ट्य, मार्ग आणि उपयोग स्पष्ट केले आहेत. परिणामकारक गृहीतकृत्य कसे असावे याबाबतचे निष्कर्ष विशद केले आहे. संशोधन पूर्वानुमान आणि शुल्य पूर्वानुमानाचे स्वरूप स्पष्ट केले आहे. गृहीतकृत्याच्या चाचणीचे स्वरूप विशद केले आहे. महत्वाच्या संज्ञा : गृहीतकृत्याची मार्ग—उगमस्थाने,गृहितकृत्याचे प्रकार,शुल्य गृहितकृत्य,गृहीतकृत्याची चाचणी. प्रस्तावना: संशोधनाचे संभाव्य निष्कर्ष काय असतील, याबाबत संशोधक संशोधनाच्या सुरुवातीलाच काही अनुमान बांधत असतो. संशोधनाच्या विशिष्ट दोन चलांमध्ये विशिष्ट प्रकारचे संबंध आहेत किंवा नाहीत, याबाबतही संशोधक काही कल्पना करत असतो. संशोधकाने प्रस्तावित संशोधनाच्या निष्कर्षाबाबत संशोधनपूर्व—वाळत केलेले अनुमान म्हणजे पूर्वानुमान. पूर्वानुमान समस्या सुवणादरम्यान मांडले जाते. समस्या सुवणाद्वारे संशोधन समस्या स्पष्ट केली जाते, समस्या विधान तयार केले जाते. समस्या विधानाचे संभाव्य उत्तर म्हणजे गृहीतकृत्य होय. समस्या सुवणाचा एक भाग म्हणून संशोधनाची उद्दिष्टे मांडली जातात. पूर्वानुमानाद्वारे उद्दिष्टांचे सूक्ष्मीकरण (Narrow down) केले जाते. म्हणजेच एक प्रकारे गृहीतकृत्य (पूर्वानुमान) संशोधनाची उद्दिष्टे अधिक स्पष्ट करण्यास मदत करते. विशेषतः चलांमधील संबंधाबाबत सर्व शोधू इच्छिता—या उद्दिष्टाबाबत पूर्वानुमान मांडले जाते. म्हणजेच दोन वा अधिक चलांमधील संबंधाबाबतचा अंदाज पूर्वानुमानाद्वारे मांडला जातो. जसे, विशिष्ट दोन चलांमध्ये फरक आहे. “अ” चलाचा “ब” चलावर परिणाम होतो इत्यादी. तसेच विशिष्ट परिस्थितीस कारणीभूत असू शकणाऱ्या घटकांबाबतही पूर्वानुमानाद्वारे अनुमान केले जाते. एवढेच नाही तर संशोधन समस्येबाबतचे वास्तुते उपायही पूर्वानुमानाद्वारे सुचविले जाते.नमुन्याच्या मदतीने संकलित केलेल्या माहितीच्या मदतीने गृहीतकृत्याची चाचणी घेतली. गृहितकृत्याच्या चाचणीच्या निष्कर्षाद्वारे लक्ष्यगटाबाबत अंतिम निष्कर्ष काढले जातात. अगदी दोबळ मानाने		

Photo 3.5.1.16: Research Collaborations (Mr. S. K. Ingle and Dr. S. J. Shenmare)