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Affiliated to

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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
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 Mob. 9421774699

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Declaration

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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	Document
1.	Add on Courses by Career Katta	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.	Photo 3.5.1.4
3.	Skill development and training program under the guidance of Tribal Research and Training Institute, Pune.	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.

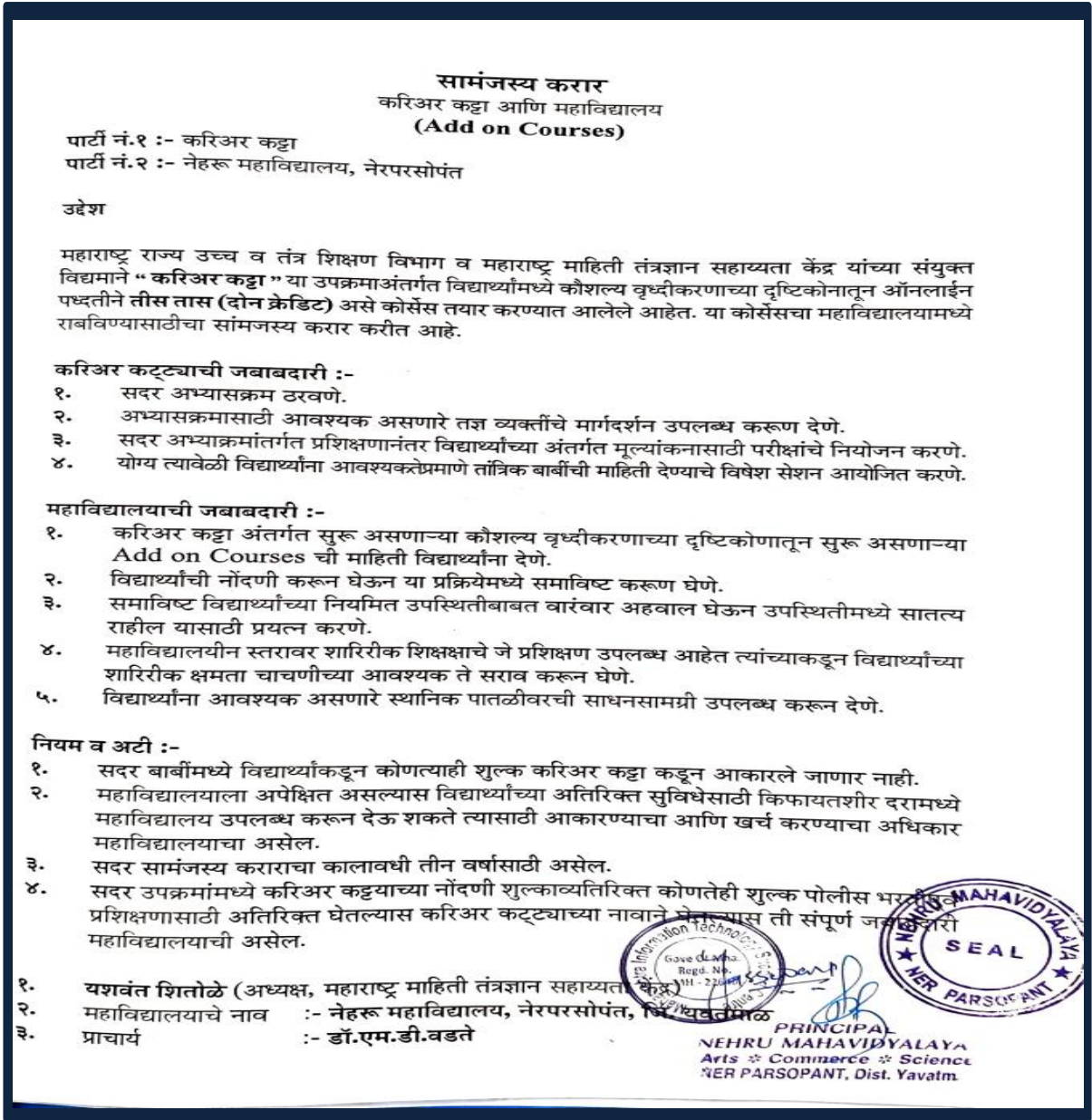



Photo 3.5.1.2: Institutional MoU with Career Katta for Add on Courses in Presence of Mr. Yashawant Shitole, President, Maharashtra Information Technologies Help Center (Career Katta), Maharashtra Shasan.


Nehru Mahavidyalaya,
(Arts*Commerce*Science)
Nerparsopant, Dist.Yavatmal - 445 102

Courses List

Sr.No.	Course Name
1	Python Programming
2	Pythone for AI/ML
3	Python for web Development
4	Cloud Computing
5	Devops
6	Data analytics with Tableau and Power BI
7	Social Media Profile Management
8	Financial Literacy
9	Communication Skill & Personality Development
10	माहिती अधिकार कायदा प्रशिक्षण
11	Certificate Course in Human Right
12	Certificate Course in Journalism
13	E-Filing
14	Soft Skill Development
15	Introduction to Basic Concept o Accounting
16	Renewable Energy
17	Cyber Law
18	Consumer Protection Act 2019






 समन्वयक
(डॉ.डी.जे.भगत)
 
 प्रिन्सिपल
(डॉ.एम.डी.वडते)
PRINCIPAL
NEHRU MAHAVIDYALAYA
Arts * Commerce * Science
NER PARSOPANT, Dist. Yavatm
 
 अध्यक्ष
(श्री.यशवंत शितोळे)

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



सामंजस्य करार करिअर कट्टा आणि महाविद्यालय (पोलीस भरतीपूर्व प्रशिक्षण)	
पार्टी नं.१ :- करिअर कट्टा पार्टी नं.२ :- नेहरू महाविद्यालय, नेरपरसोपंत उद्देश महाराष्ट्र राज्य उच्च व तंत्र शिक्षण विभाग व महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र यांच्या संयुक्त विद्यमाने " करिअर कट्टा " या उपक्रमाअंतर्गत पोलीस भरती पूर्व ऑनलाईन पध्दतीने मार्गदर्शन करून विद्यार्थ्यांच्या मध्ये यशस्वीनेचे प्रमाण वाढवण्याचा प्रयत्न केला जाणार आहे. या माध्यमातून ग्रामीण भागातील विद्यार्थ्यांना ऑनलाईन पध्दतीने तज्ञ व्यक्तींचे मार्गदर्शन उपलब्ध मदत होईल व महाविद्यालयाच्या वतीने मैदानावर विद्यार्थ्यांचा सराव घेतल्यानंतर त्यांना शासकीय नोकरीमध्ये समाविष्ट होण्यासाठी मदत होईल व त्यांचे चांगले परिणाम होतील या उद्देशाने महाविद्यालय व करिअर कट्टा एकत्रितरित्या हा सामंजस्य करार करित आहे.	६. वर्षभरामध्ये चालणाऱ्या प्रशिक्षणाच्या बॅचेसचे नियोजन हे राज्यस्तरीय पध्दतीने करण्यात येईल. ७. व्यक्तिगत महाविद्यालयाच्या सोयीनुसार त्याच्यामध्ये येणार नाही.
करिअर कट्ट्याची जबाबदारी :- १. सदर अभ्यासक्रम ठरवणे. २. अभ्यासक्रमासाठी आवश्यक असणारे तज्ञ व्यक्तींचे मार्गदर्शन उपलब्ध करून देणे. ३. सदर अभ्यासक्रमांतर्गत प्रशिक्षणानंतर विद्यार्थ्यांच्या अंतर्गत मूल्यांकनासाठी परीक्षांचे नियोजन करणे. ४. योग्य त्यावेळी विद्यार्थ्यांना आवश्यकतेप्रमाणे तांत्रिक बाबींची माहिती देण्याचे विशेष सेशन आयोजित करणे.	१. यशवंत शितोळे (अध्यक्ष, महाराष्ट्र माहिती तंत्रज्ञान सहाय्यता केंद्र) २. महाविद्यालयाचे नाव :- नेहरू महाविद्यालय, नेरपरसोपंत, जि. पवतमाळ ३. प्राचार्य :- डॉ.एम्.डी.वडते ४. समन्वयकाचे नाव :- प्रा.डॉ.डी.जे.भगत
महाविद्यालयाची जबाबदारी :- १. करिअर कट्टा अंतर्गत सुरु असणाऱ्या पोलीस भरतीपूर्व प्रशिक्षणाची माहिती विद्यार्थ्यांना देणे. २. विद्यार्थ्यांची नोंदणी करून घेऊन या प्रक्रियेमध्ये समाविष्ट करून घेणे. ३. समाविष्ट विद्यार्थ्यांच्या नियमित उपस्थितीबाबत वारंवार अहवाल घेऊन उपस्थितीमध्ये सातत्य राहिल यासाठी प्रयत्न करणे. ४. महाविद्यालयीन स्तरावर शारिरीक शिक्षकांचे जे प्रशिक्षण उपलब्ध आहेत त्यांच्याकडून विद्यार्थ्यांच्या शारिरीक क्षमता चाचणीच्या आवश्यक ते सराव करून घेणे. ५. विद्यार्थ्यांना आवश्यक असणारे स्थानिक पातळीवरची साधनसामग्री उपलब्ध करून देणे.	 
नियम व अटी :- १. सदर बाबींमध्ये विद्यार्थ्यांकडून कोणत्याही शुल्क करिअर कट्टा कडून आकारले जाणार नाही. २. महाविद्यालयाला अपेक्षित असल्यास विद्यार्थ्यांच्या अतिरिक्त सुविधेसाठी किफायतशीर दरामध्ये महाविद्यालय उपलब्ध करून देऊ शकते त्यासाठी आकारण्याचा आणि खर्च करण्याचा अधिकार महाविद्यालयाचा असेल. ३. सदर सामंजस्य कराराचा कालावधी तीन वर्षांसाठी असेल. ४. सदर उपक्रमांमध्ये करिअर कट्ट्याच्या नोंदणी शुल्काव्यतिरिक्त कोणतेही शुल्क पोलीस भरतीपूर्व प्रशिक्षणासाठी अतिरिक्त घेतल्यास करिअर कट्ट्याच्या नावाने घेतल्यास ती संपूर्ण जबाबदारी महाविद्यालयाची असेल. ५. सदर प्रशिक्षणामध्ये दिले जाणारे प्रशिक्षण हे विद्यार्थ्यांच्या तयारीसाठी करून जात असते शासकीय भरती प्रक्रिया हा या उपक्रमाचा भाग नाही.	

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.

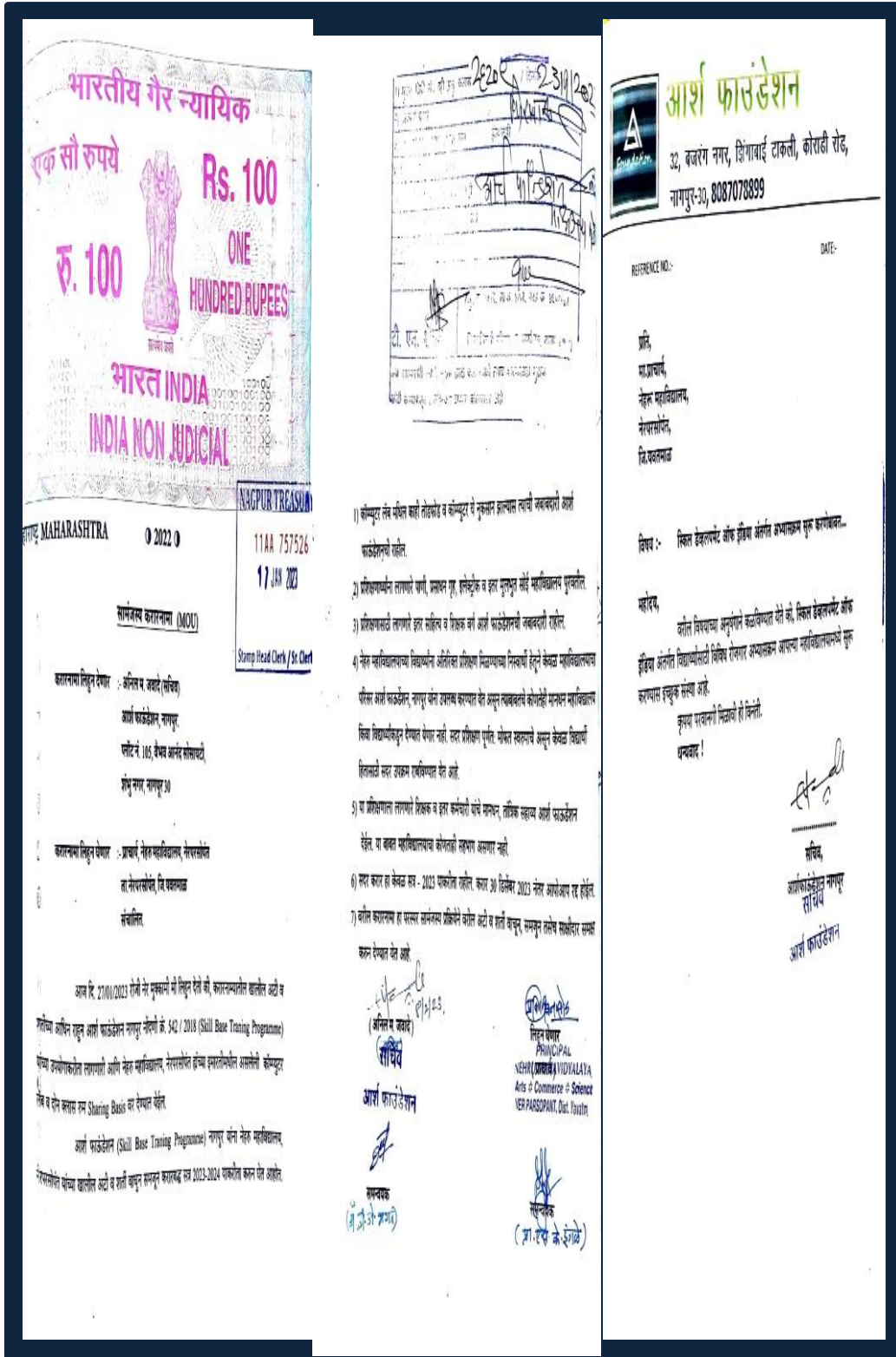


Photo 3.5.1.5: The institution has MoU with Aarsh Foundation, Nagpur for Skill development and training program under the guidance of Tribal Research and Training Institute, Pune.

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, Shengaoon, 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 BakhruSIndhu 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. G¹, Bokey V. D² and Bawane V. S³

¹Department of Mathematics, R.D.J.K. & K.D. College, Badnera- Amravati, India
²Department of Mathematics, Nehru Mahavidyalaya, Nerparasopant Dist. Yavatmal, India
³Department of Mathematics, Mahatma Phule Arts, Comm. & S. C. Chaudhari Science College, Warud, Dist. Amravati, Maharashtra, India

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 Bianchi Type-I universe; variable deceleration parameter; interacting dark fluids; cosmological parameter.

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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) (Riess et al. [54]; Perlmutter et al. [45]) indicates that currently universe is accelerating. When these results combines with the observations of cosmic microwave background (CMB) (Bennett et al. [16]; Spergel et al. [64]) and also the large scale structure (LSS) (Fegmark et al. [66], [67]), indicates that spatially flat universe is dominated by an exotic component with strong negative pressure called as dark energy (Weinberg [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. [69]; Nojiri and Odintsov [60]; Guo et al. [31]; Banejee and Pavon [15]; Zimdahl and Pavon [75]; Zimdahl [76]). 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 Akara and Kilinc [7], Yadav et al. [73].

*Corresponding author: Mete V. G. Department of Mathematics, R.D.J.K. & K.D. College, Badnera- Amravati, India

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

V. G. Mete,
 R.D.J.K. & K.D. College,
 Badnera - Amravati, Maharashtra, India
 E-mail: vmete562@gmail.com,
 V. D. Bokey,
 Nehru Mahavidyalaya, Nerparasopant Dist.
 Yavatmal, Maharashtra, India
 bokey.vaibhav1@gmail.com,
 V. S. Bawane,
 M.F Arts, Comm. & S. C. Science MV,
 Warud, Dist. Amravati,
 Maharashtra, India
 vasantbawane@yahoo.in

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 (Riess 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 earlier 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 string cosmological model is contained in the study work of Sing and Agrawal (1991), Shri Ram and Tiwari (1998), D. R. K. Reddy et al. (2006), 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 Bellini (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 contexts. For example (1988), Chi (1990), Fukui (1993), Liu and Wesson (1994), Coley (1994).

36

Website - www.researchjourney.net Email - researchjourney2014@gmail.com

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

Adhav¹ K S , Kuber² S M , Bokey V B³

¹ Hawassa University, Hawassa, ETHIOPIA.
² Bharat College of Engineering, Badlapur [Mumbai].
³ SGB Amravati University, Amravati .

Author's Email: ati_ksadhav@yahoo.co.in; smkmmk90@gmail.com; bokey.vaibhav1@gmail.com

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

26

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

About The Author

Dr. Pankaj Shyamalji Vishwakarma is M.Com., M.C.M., M.Phil.(Comm.), NET, Ph.D. He is currently working as an **Assistant Professor** since last 11 years at **Nehru Mahavidyalaya (Arts, Commerce, Science), Nerparsopant, District-Yavatmal (M.S.)**.

He is working as a IQAC Coordinator in the college from last 11 years. He is also the member of various committees; Quality Advisory Committee (QAC), National Assessment and Accreditation Council (NAAC), College Development Committee (CDC), Feedback Committee (NAAC), Academic Audit Committee (AAC), UGC Work, Affiliation Committee, AISHE Committee, MIS Committee, Research Seed Money Provision Committee, API Verification Committee, etc.

- ★ 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.
- ★ He has 44 Research paper published in National, International Peer Reviewed Journals, Conferences & Seminars.
- ★ He has written three books namely "**Indian Financial System**", "**E-Commerce**", "**E-Commerce-II**" out of which two books are refer in the SGBAU Syllabus.

Prof. Mangesh Vinodrao Dambale is B.B.A., M.B.A. (Human Resource). He is currently working as an **Assistant Professor** since last 06 years at **Signa College of Engineering & Technology, Distt. Amravati (M.S.)**.

He is working as a Training & Placement Coordinator in the college from last 06 years. He is also the member of various committees; National Assessment and Accreditation Council (NAAC), etc.

- ★ He has experience of teaching in UG and PG level.
- ★ He has Research paper published in National Peer Reviewed Journals.
- ★ 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.

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About The Author

Dr. Pankaj Shyamalji Vishwakarma is M.Com., M.C.M., M.Phil.(Comm.), NET, Ph.D. He is currently working as an **Assistant Professor** since last 11 years at **Nehru Mahavidyalaya (Arts, Commerce, Science), Nerparsopant, District-Yavatmal (M.S.)**.

He is working as a IQAC Coordinator in the college from last 11 years. He is also the member of various committees; Quality Advisory Committee (QAC), National Assessment and Accreditation Council (NAAC), College Development Committee (CDC), Feedback Committee (NAAC), Academic Audit Committee (AAC), UGC Work, Affiliation Committee, AISHE Committee, MIS Committee, Research Seed Money Provision Committee, API Verification Committee, etc.

- ★ 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.
- ★ He has 44 Research paper published in National, International Peer Reviewed Journals, Conferences & Seminars.
- ★ He has written three books namely "**Indian Financial System**", "**E-Commerce**", "**E-Commerce-II**" out of which two books are refer in the SGBAU Syllabus.

Prof. Vijay Pravinkumar Panjabi is M.Com., M.B.A.(Finance), B.Ed. He is currently working as an **Assistant Professor** at **Vidya Wardhini Sabha's, Dr. M. Y. Vaidya Arts, Prof. P. D. Dalal, Commerce & Dr. D. S. Shah Science, College, Dhule, 424001**.

- ★ He has experience of teaching in UG and PG level.
- ★ He has published books & research articles in referred journals.
- ★ He is pursuing Ph.D from Sant Gadge Baba Amravati University.

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 "Vrundavan", 29-A, Ambika Nagar, Lane No. 2,
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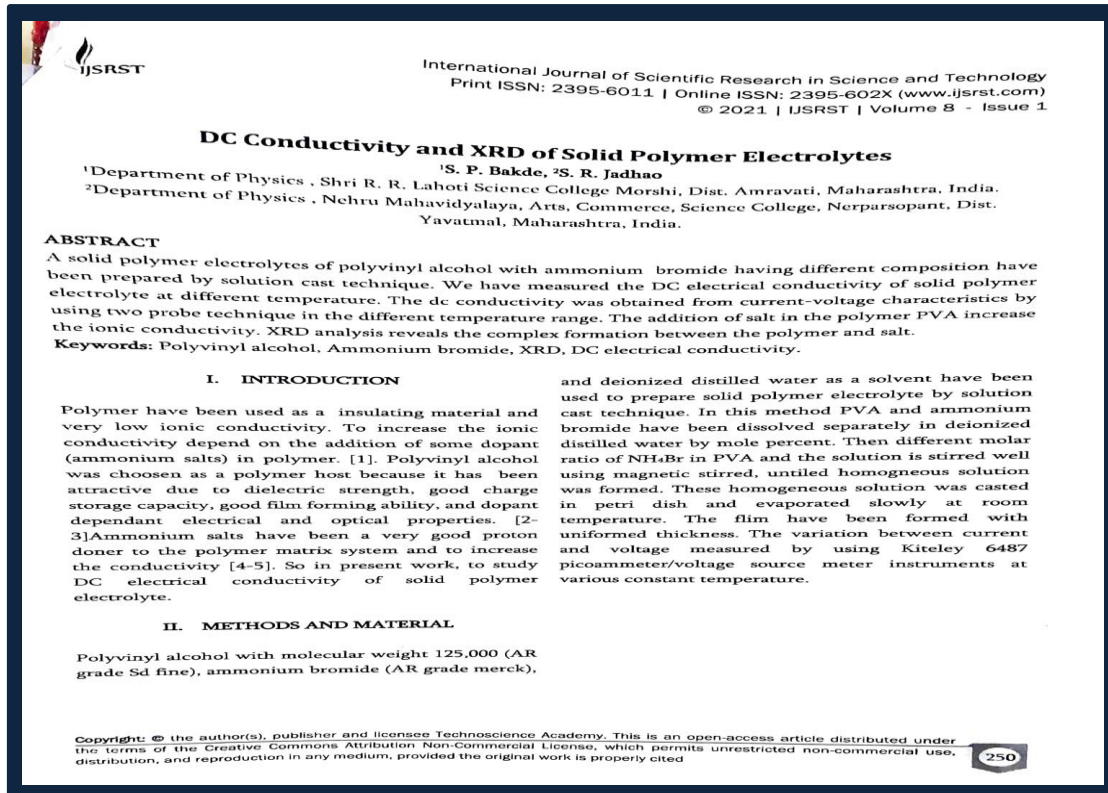


Photo 3.5.1.12: The Institute-Institute Research Collaborations.

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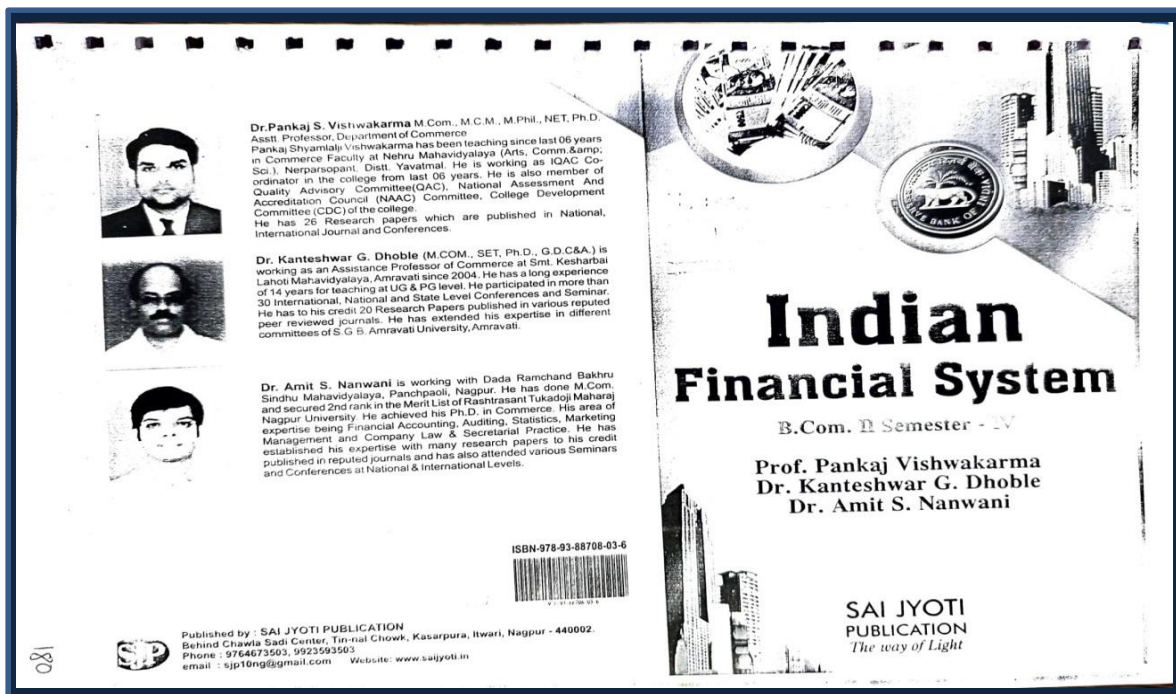


Photo 3.5.1.13: The Institute-Institute Research Collaborations.

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

E-COMMERCE
B:Com Semester V
Dr. Pankaj S. Vishwakarma
Prof. Girishkumar N. Daga

Dr. Pankaj Shyamaji Vishwakarma has been teaching since last 06 years in Commerce Faculty at Nehru Mahavidyalaya (Arts, Comm & Sci.), Nerparsopant, Distt. Yavatmal. He is working as IQAC Co-ordinator in the college from last 06 years. He is also member of Quality Advisory Committee(QAC), National Assessment And Accreditation Council (NAAC) Committee, College Development Committee (CDC) of the college.
 He has 26 Research papers which are published in National, International Journal and Conferences.

Prof. Girishkumar N. Daga He is presently working as a Assistant Co-ordinator Department of Commerce and Management Department in Brijlaj Biyani Science College, Amravati (Maharashtra) He engaged in higher educational teaching field since last 18 years. He has done various types and number of responsibilities of the college works. He has specialization in Accountancy, Statistics, Mathematics, Income Tax and Computer related Subjects. He is a member of various Professional, Educational, Social, Institutional bodies and also worked on various university level committee. He has several Research paper to this credit at State, National and International Conferences and Seminars. He is member of Indian Accounting Association (IAA).

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Photo 3.5.1.14: Research Collaborations (Dr. P. S. Vishwakarma and Prof. G. N. Daga)

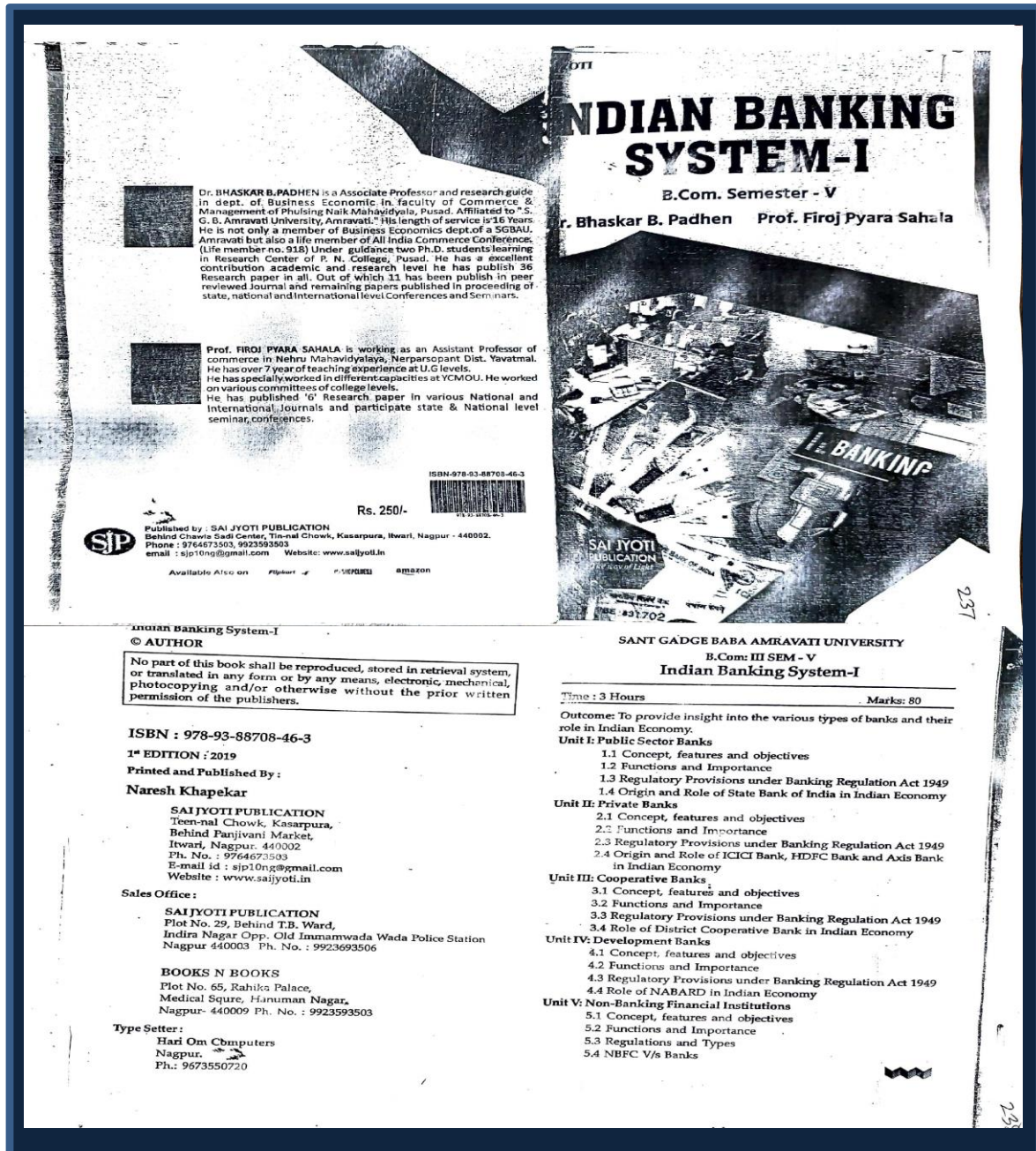


Photo 3.5.1.15: Research Collaborations (Mr. F. P. Sahala and Dr. B. B. Padhen)

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ग्रंथालय व माहितीशास्त्र संशोधनामध्ये गृहीतकृत्य (Hypothesis) चे महत्त्व व उपयुक्तता		
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सासंशः : कोणत्याही समस्येचे संशोधकांला 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 संशोधकांला संशोधन कार्यशाही मार्गदर्शक ठरते. ह्याच पूर्वानुमान (गृहीतकृत्य) मुळे समस्येच्या नियतकरणे करिता मदत होते. यदर शोध निबंधामध्ये गृहीतकृत्याचा अर्थ सांगून गृहीतकृत्याचे वैशिष्ट्य, मार्ग आणि उपयोग स्पष्ट केले आहेत. परिणामकारक गृहीतकृत्य कसे असावे याबाबतचे निकष विशद केले आहे. संशोधन पूर्वानुमान आणि शून्य पूर्वानुमानाचे स्वरूप स्पष्ट केले आहे गृहीतकृत्याच्या चाचणीचे स्वरूप विशद केले आहे. महत्वाच्या संज्ञा : गृहीतकृत्याची मार्ग—उगमस्थाने,गृहितकृत्याचे प्रकार,शून्य 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—काळात केलेले अनुमान म्हणजे पूर्वानुमान. पूर्वानुमान समस्या सुवणदरमान 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 इच्छिणा—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 घटकाबाबतही पूर्वानुमानाद्वारे अनुमान केले जाते. एवढेच नाही तर संशोधन समस्येबाबतचे ताल्युर्ते उपायही पूर्वानुमानाद्वारे सुचविले जाते.नमुन्याच्या मदतीने संकलित केलेल्या माहितीच्या मदतीने गृहीतकृत्याची चाचणी घेतली. गृहितकृत्याच्या चाचणीच्या निष्कर्षाद्वारे लक्ष्यगटाबाबत अंतिम निष्कर्ष काढले जातात. अगदी ढोबळ मानाने		

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