


**Biodata Format**

Name of Institute: Shivaji Arts Commerce and Science College Kannad

<b>Full Name</b>		Dr. Avhale POpat Sandu		 Photo
<b>Name of Post</b>		ASSOCIATE PROFESSOR		
<b>Subject</b>		Mathematics		
<b>Specialisation</b>		Pure Mathematics		
<b>Caste Category Appointed From</b>		OPEN		
<b>UG/ PG Teacher</b>		UG		
<b>Address &amp; Contact Details</b>		DEPARTMENT OF Mathematics SHIVAJI COLLEGE KANNAD Aurangabad Mobile No.: 7588854446 Email:avhaleps@yahoo.com		
<b>Gender</b>	MALE	<b>Date of Birth : 21/06/1971</b>		
<b>Mother tongue</b>	MARATHI	<b>Knowledge of Marathi: YES</b>	<b>Specially Abled:</b>	

**:: Caste Category of Candidate**

Category : OPEN

Caste : MARATHA

**:: Educational Qualification (Start from Ph.D/PDF to SSC)**

Name of Exam	Board/University	Passing Mon-Year	Stream/Subject	Obtained/ Total Marks	% or Grade Point
Ph.D	Dr.BAMU Aurangabad	05/05/2016	On some realistic model in differential equation	---	---
SET	State agency Pune	13/06/1998	Mathematics	Pass	
M.Sc	Marathawada University	July 1995	Mathematics	518	65.75
B.Sc	Marathawada University	June 1993	Physics Chemistry,Mathematics	2077	61.08
HSC	Maharashtra State Board Odf Higher Secondary And Higher Secondary Education Pune	June 1990	Marathi, English,Physics Chemistry,Mathematics,Biology	367	61.17
SSC	Maharashtra State Board Odf Higher Secondary And Higher Secondary Education Pune	June 1988	Marathi, English,Hindi, Science,	471	67.28

**:: Work Experience**

Name of Employer	Type of Service	Designation	Nature of Post	From-To	Payscale	Approval date
Avhale Papat Sandu	Teaching	Lecturer	Temporary	14/07/1996 to 25/03/1999	2200-4000	3 may 1997
Avhale Papat Sandu	Teaching	Lecturer	Permant	26/03/1999 to 23/03/2005	2200-4000	5 June 2008
Avhale Papat Sandu	Teaching	Lecturere in senior scale	Permant	24/03/2005 to 31/12/2005	1000-15200	29 may2008
Avhale Papat Sandu	Teaching	Assistant	Permant	01/01/2006	15600-	Six pay

		<b>Professor</b>		to 25/03/2013	39000	scale
<b>Avhale Popat Sandu</b>	<b>Teaching</b>	<b>Associate Professor</b>	<b>Permant</b>	26/03/2013 to up till	37400- 67000	23/04/2013

**:: Research Papers/ Conference Proceedings**

<b>Type of Journal</b>	<b>Title with Page No.</b>	<b>Journal Details</b>	<b>Published year</b>	<b>Sole/ Co-Author</b>	<b>Peer Review/Impact Factor</b>	<b>API Score</b>
International	Paper - [A note on complete integral of non-linear first order partial differential equation] From 56 To 62	Marathawada Mathematical Society	[ 01-12-2011 ]	<b>Co-Author</b>	<b>Peer Review</b>	<b>06</b>
International	Paper - [Drug distribution in the body] From 5 To 7	Thematics journal applied science	[ 01-01-2012 ]	<b>Co-Author</b>	<b>Peer Review</b>	<b>06</b>
International	Paper - [Mathematical Modeling and carbon-14 dating] From 22 To 26	Thematics journal applied science	[ 01-01-2012 ]	<b>Co-Author</b>	<b>Peer Review</b>	<b>06</b>
International	Paper - [Place value system and invention of zero] From 1 To 4	Golden Research Thought	[ 01-03-2012 ]	<b>Co-Author</b>	<b>Peer Review</b>	<b>06</b>
National	Paper - [The mathematician Bhaskaracharya II] From 16 To 20	Entire Research	[ 01-04-2012 ]	<b>Co-Author</b>	<b>Peer Review</b>	<b>06</b>
International	Paper - [Temperature of planets] From 66 To 67	Golden Research Thought	[ 01-04-2012 ]	<b>Co-Author</b>	<b>Peer Review</b>	<b>06</b>
National	Paper - [[History of number system and computer approach] From 60 To 65	Indian Streams Research Journal	[ 01-04-2012 ]	<b>Co-Author</b>	<b>Peer Review</b>	<b>06</b>
International	Paper - [The great mathematician Brahmagupta] From 44 To 55	Golden Research Thought	[ 01-07-2012 ]	<b>Co-Author</b>	<b>Peer Review</b>	<b>06</b>
International	Paper - [Moderate earthquakes in India during the year 2010 to 2011] From 39 To 40	Thematics journal applied science	[ 01-07-2012 ]	<b>Co-Author</b>	<b>Peer Review</b>	<b>06</b>
National	Paper - [The great mathematician Aryabhata] From 82 To 86	Indian Streams Research Journal	[ 01-09-2012 ]	<b>Co-Author</b>	<b>Peer Review</b>	<b>06</b>
National	Paper - [Indian mathematician Varahamihira]	Global Economic Research	[ 01-10-2012 ]	<b>Co-Author</b>	<b>Peer Review</b>	<b>06</b>

	From 102 To 109					
International	Paper - [The great Indian mathematician Srinivas Ramanujan] From 51 To 59	Golden Research Thought	[ 01-10-2012 ]	Co-Author	Peer Review	06
International	Application of Green Function Method for Solution Advection Diffusion Equation of Nutrient Concentration in Groundwater	Annals of Pure and Applied Mathematics	Vol. 7, No. 2, 2014, 1-5 26 august 2014	Co-Author	Peer Review Impact factor 1.0285	06
International	Mathematical Modeling for nutrient uptake by plant root which is considered as cylindrical	Malaya journal of mathematic	2(4)(2014) 363-372	Co-Author	Peer Review ICV 5.54	06
International	MATHEMATICAL MODELING OF NUTRIENT UPTAKE BY SPHERICAL BULB SURFACE	International Journal of Mathematical Archive-5(5), 2014,	5(5) May 2014, 55-62	Co-Author	Peer Review Impact factor 1.20 ICV 5.09 SJIF 4.091	06
International	Mathematical Modeling of Nutrient Uptake by Growing Root Considered as Moving Boundary Value Problem	Global Journal of Pure and Applied Mathematics.	Volume 10, Number 3 (2014) pp. 389-394	Co-Author	Peer Review	06
International	MATHEMATICAL MODELING FOR WATER UPTAKE BY PLANT ROOT IN SATURATED AND UNSATURATED ZONE	Antarctica J. Math	11(3)(2014), 265-277	Co-Author	Peer Review	06
International	Mathematical Modeling of Water Profile surrounding the root surface in Soil, in Cortex Tissues and in Xylem Tubes while Root Uptake the Water from the Soil	International journal of trends and technology	Volume 11 (1) July 2014	Co-Author	Peer Review Impact factor 0.462 IC 3.86	06

International	MATHEMATICAL MODELING OF WATER UPTAKE BY SPHERICAL BULB SURFACE AND WATER PROFILE SURROUNDING THE BULB SURFACE OF BEET	International Journal of Mathematical Archive	5(10), Oct. – 2014 96-102	<b>Co-Author</b>	<b>Peer Review</b> Impact factor 1.20 ICV 5.09 SJIF 4.091	<b>06</b>
International	Mathematical Modeling of Pollutant Uptake by the Plant Root from the Soil	Annals of Pure and Applied Mathematics	Vol. 9, No. 1, 2014, 1-7 1 January 2015	<b>Co-Author</b>	<b>Peer Review</b> 1.0285	<b>06</b>
International	Mathematical modeling phosphate supply and uptake by ginger plant in one life cycle using graphical analysis	International Journal of Statistika and Matematika,	Aug-Oct. 2014; 11(1): 44-47.	<b>Co-Author</b>	<b>Peer Review</b> Impact factor 1.1639	<b>06</b>

**:: Paper Presented in Conference/Workshop/Symposium**

Title of Paper	Type of Conf./Workshop/Symposium	Details of Conf./Workshop/Symposium	Organiser Details	Proceedings Published?	Sole/Co-author	API Score
Some Surprising Results About Harmonic Functions	<b>state</b>	Recent advances in mathematics August 28-30,2003	Maulana Azad College of Arts, Commerce and Science Aurangabad	<b>no</b>		
Mathematical Modeling for nutrient uptake by plant root which is considered as cylindrical	<b>National</b>	Recent advances in mathematics	Deogiri college Aurangabad	<b>no</b>	<b>Co author</b>	<b>07</b>

**:: Research Publications- Books, Chapters, Articles etc.**

Publication Type	Title of Book	Publisher Details	Book ISSN/ISBN	Published Year	Sole/Co-author	API Score
	Book - [THE GREAT INDIAN MATHEMATICIANS]	Tiphan Prakashan		International - [ 24-12-2012 ]	<b>Co author</b>	<b>10</b>

**:: Details of Research Students guided for M.Phil./Ph.D.**

Student Name	Degree	Registration Date	Award of Degree	Branch/Title	Degree Status
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**:: Details of Research Schemes/ Projects/ Consultancies undertaken**

Project Name	Funding Agency	Fund Mobilised	Commencement Date	Completion Date	Worked as	API Score
-	-	-	-	-	-	-
-	-	-	-	-	-	-

**CATEGORY I: TEACHING, LEARNING & EVALUATION RELATED ACTIVITIES**

**:: 1. Details of Lectures, Seminars, Tutorials, Practicals, Contact Hrs**

Course/Paper	UG/ PG Level	Teaching Mode	Hours per week allotted	% of classes taken
MAT101, 201	UG	Lecturer method	20	98
MAT201 203, 301,303	UG	Lecturer method	20	98
MAT 501, 601	UG	Lecturer method	20	98

API Score for Classes taken (Max Score 50 for 100% performance & proportionate score) up to 80% performance; below which no score may be given)	
2. API Score for Teaching load in excess of UGC norm (Max Score: 10)	10

**3. Reading/ Instructional Material consulted/ additional knowledge resources provided to students:**

Course/Paper	Consulted	Prescribed	Additional Resources Provided
MAT101, 201		PPT	
MAT201 203, 301,303		PPT	
MAT 501, 601		PPT	

API Score based on preparation & imparting knowledge/ instruction as per curriculum & syllabus enrichment by providing additional resources to students (Max Score:20)	
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4. Use of Participatory & Innovative Teaching-Learning methodologies, updating of subject content, course improvement etc.	
API Score (Max Score:20)	

**5. Examination Duties Assigned and Performed (invigilation; question paper setting, evaluation/ assessment of answer scripts) as per allotment:**

Type of Examination Duties	Duties Assigned	Extent to which carried out (%)	API Score
Invigilator	As per college appointment	100	
Paper Assessment	As per University Appointment	100	

**CATEGORY II: CO-CURRICULAR, EXTENSION & PROFESSIONAL DEVELOPMENT RELATED ACTIVITIES**

1. Student related co-curricular, extension & field based activities (such as extension work through NSS/NCC & other channels, cultural activities, subject related events, advisement & counseling) API Score (Max Score:20)	Coordinator of Science club Organization of guest lecturer
2. Contribution to Corporate life & management of the department & institution through participation in academic & administrative committees & responsibilities API Score (Max Score:20)	Work as College Nodal officer for MHRD and Maharashtra government Admission committee Various committee of college function
3. Professional Development Activities (such as participation in seminars, conferences, short term, training courses, talks, lectures, membership of associations, dissemination & general articles, not covered above) API Score (Max Score:15)	Organization of guest lecturer Member of BAMUCTO Patron member of Marathawada Mathematical Society

<b>Training Courses, Teaching, Learning Evaluation Technology Programmes, Faculty Development Programmes (Not less than one week duration) API Score</b>	<b>orientation 01 Refresher 03</b>
<b>Invited lectures or presentations for conferences/symposia</b>	
<b>Design of new course &amp; curriculum</b>	
<b>Particulars of current research work at personal level</b>	
<b>Co-curricular &amp; extra curricular activities</b>	
<b>Consultancy work carried out</b>	
<b>Patents &amp; IPR Details:</b>	
<b>Any other information you wish to specify</b>	