

WEB FORMAT



**BHARATHIARUNIVERSITY
COIMBATORE – 641 046**



**Format for 28th Annual Report Data for University Departments
for the year 2009 (from 01.01.2009 to 31.12.2009)**

1. Department Details:

Name of the School	School of Mathematics and Statistics			
Name of the Department	Applied Mathematics			
Name of the HOD, Phone No. and E-mail ID	Dr.S.P.Anjali Devi,9600363159, anjalidevi_s_p@yahoo.co.in			
Year of Establishment	June 2008			
Telephone Number	0422-2428 412(HOD), 2428 416(Office)			
Website / E mail	anjalidevi_s_p@yahoo.co.in			
Special Status	SAP	FIST	DST	Others (pl. specify) - - -

2. Details of Faculty and Staff Members:

Sl. No.	Name of the Faculty	Qualification	Designation	Specialization	Experience in years		E-mail ID &Phone No.
					Teaching	Research	
1	Dr. S.P. Anjali Devi	M.Sc., Ph.D.	Professor and Head	Fluid Dynamics,CFD, Ferrofluids, Heat & Mass Transfer	29 Yrs	29 Yrs	anjalidevi_s_p@yahoo.co.in & 9600363159
2	Dr. S. Narayana Moorthy	M.Sc., M.Phil., Ph.D.	Assistant Professor	Fuzzy Mathematics	2 ½ Yrs	2 ½ Yrs	snm_phd@yahoo.co.in & 9884588610
3	A.Shanmuga sundaram		Assistant		15 Yrs		9994281017
4	S.Sridhar		ATO		3 Months		9788852775
5	K.Vijayalakshmi		Office Assistant		1 ½ Yrs		-----

3. Research Schemes/Projects undertaken:

Sl. No.	Funding Agency	Name of the Principal Investigator	Title of the Project	Amount(Rs)	Duration	
					From	To
1.	DRDL	Dr.S.P.Anjali Devi	Hypersonic turbulent flow over blunt bodies with Counter flow jet	Rs. 8,35,500	April 2007	March 2009

4. (a) Deputation of Faculty to present papers in Congresses/Conferences/Seminars/Workshops, Symposia, etc.

Sl. No.	Name of the Faculty	Congress/Conference/Seminar /Workshop and Venue	Period	Title of the paper
1	Dr. S. P. Anjali Devi	54 th Congress of ISTAM IIT , Kharagpur.	18 th to 21 st Dec. 2009	Nonlinear Hydromagnetic flow and Heat Transfer with variable conductivity and dissipation effects over a stretching porous surface embedded in a porous medium
2	Dr.S.Narayanamoorthy	International Conference on Mathematics and Computer Science, Loyola College, Chennai-34	5 th -6 th January, 2009	Estimation of Maximum Age Group of Silk Weavers Becoming Bonded Labourers with their Sociological Attributes, Using 4x 9 Fuzzy Matrices
3	Dr.S.Narayanamoorthy	National Conference on Applications of mathematics in Science and Technology, Sacred Heart College , Tiruppattur	12 th -13 th March, 2009	A Fuzzy Approach to the Forest Workers

4 (b). Faculty having acted as chief guest, key note speakers, resource person, chair person, external experts, etc.,

Sl. No.	Faculty	Role	Event	Venue & Date	Title
1	Dr. S.P.Anjali Devi	Chief Guest & Key Note speaker	Seminar on “Recent scenario in Computational Methods”	VLB Janakiammal College of Engineering & Technology, Coimbatore. 13 th April 2009	Recent Computational Methods in Engineering
2	Dr. S.P.Anjali Devi	Resource person	DRDO Workshop on “Recent development in simulation and Modeling”	VLB Janakiammal College of Engineering & Technology, Coimbatore. 29 th & 30 th April 2009	Modeling using Finite Volume Method

5. Seminars and Conferences Organized:

Sl. No.	Name of the Faculty	Congress/Conference/Seminar/ Workshop/Symposia, etc. Organized	State/National/ International Level	Period
1	Dr.S.P.Anjali Devi	Organizing Secretary for the “National Seminar on Advances in Applied Mathematics (NSAAM 2009)”	National	23 rd March 2009
2	Dr.S.Narayana moorthy	Organizing Committee Member for the “National Seminar on Advances in Applied Mathematics (NSAAM 2009)”	National	23 rd March 2009

6 (a). Publication of Research Papers at the State/National/International Levels:

Sl. No.	Title of the paper	Author(s)	Journal	Volume No. Issue No.	Year of Publication	Page(pp)
1	Effect of Viscous and Joules Dissipation on MHD flow, heat and mass transfer past a stretching porous surface embedded in a porous medium	S.P.Anjali Devi and B.Ganga	Nonlinear Analysis Modeling and Control, (Europe)	14 (3)	2009	303-314
2	Viscous dissipation effects on nonlinear MHD flow in a porous medium over a stretching surface.	S.P.Anjali Devi and B.Ganga	International Journal of Applied Mathematics and Mechanics (IJAMM, China)	5(7)	2009	45-49
3	Dissipation effects on Nonlinear flow and heat transfer part a surface with prescribed heat flux	S.P.Anjali Devi and B.Ganga	Accepted for publication in Journal of Applied Fluid Mechanics (JAFM, Iran)			
4	Analytical solution of MHD flow with radiation over a stretching sheet embedded in a porous medium	S.P.Anjali Devi and M.Kayalvizhi	Accepted for publication in International Journal of Applied Mathematics & Mechanics (IJAMM, China)			

5	A Fuzzy tool to study bonded labourer Problem	S.Narayana moorthy and A.Nagoorgani	International Journal of Algorithms, Computing and Mathematics (IJACM)	2(3)	2009	123-128
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6 (b). Abstracts:

Sl.No	Author	Title	Event
1	S.P.Anjali Devi and Bakkyaraj. T.	Effect of Joule heating on steady laminar convective hydromagnetic slip flow over a rotating porous disk with variable properties	National Seminar on Advances in Applied Mathematics (NSAAM-2009) conducted on 23 rd March 2009 at the Department of Applied Mathematics, Bharathiar University, Coimbatore.
2	S.P.Anjali Devi and Selvarani. K.	Effect of internal heat generation on MHD oscillatory flow in a stratified medium past a continuous moving porous surface with variable temperature	National Seminar on Advances in Applied Mathematics (NSAAM-2009) conducted on 23 rd March 2009 at the Department of Applied Mathematics, Bharathiar University, Coimbatore.
3	S.P.Anjali Devi and Mathiyalagan. K.	Dissipation effects over three dimensional MHD Couette flow with transpiration cooling in the presence of an inclined magnetic field	National Seminar on Advances in Applied Mathematics (NSAAM-2009) conducted on 23 rd March 2009 at the Department of Applied Mathematics, Bharathiar University, Coimbatore.
4	S.P.Anjali Devi and Anne susan georgena.S	Nonlinear MHD flow with heat and mass transfer with dissipation effects due to a stretching porous surface with variable temperature embedded in a porous medium	National Seminar on Advances in Applied Mathematics (NSAAM-2009) conducted on 23 rd March 2009 at the Department of Applied Mathematics, Bharathiar University, Coimbatore.
5	S.P.Anjali Devi and Ms.S.Aruna	Numerical simulation on effect of angle of attack on reduction of aerodynamic heating of a blunt body using opposing jet	National Seminar on Advances in Applied Mathematics (NSAAM-2009) conducted on 23 rd March 2009 at the Department of Applied Mathematics, Bharathiar University, Coimbatore.

6	Ms.R.Uma Devi and S.P.Anjali Devi	Effects of thermal on hydromagnetic flow over a porous rotating disk	National Seminar on Advances in Applied Mathematics (NSAAM-2009) conducted on 23 rd March 2009 at the Department of Applied Mathematics, Bharathiar University, Coimbatore.
7	Ms. M.Kayalvizhi and S.P.Anjali Devi	Nonlinear viscous flow with heat and mass transfer past a stretching porous surface with variable conductivity and viscous dissipation effects in the presence of heat source embedded in a porous medium	National Seminar on Advances in Applied Mathematics (NSAAM-2009) conducted on 23 rd March 2009 at the Department of Applied Mathematics, Bharathiar University, Coimbatore.
8	B.Ganga and S.P.Anjali Devi	Viscous and Joule heating effects on MHD flow and heat transfer over a stretching porous surface embedded in a porous medium with internal heat generation	National Seminar on Advances in Applied Mathematics (NSAAM-2009) conducted on 23 rd March 2009 at the Department of Applied Mathematics, Bharathiar University, Coimbatore.
9	Ms.R.Uma Devi and S.P.Anjali Devi	Effects of thermal radiation on hydromagnetic flow due to a porous rotating disk with hall effect	International Conference on Frontiers in fluid mechanics (ICFFM-2009)held during Aug 31 – Sep 2 ,2009 at Bangalore University, Bangalore.
10	Ms. M.Kayalvizhi and S.P.Anjali Devi	Analytical solution of MHD flow with radiation over a stretching porous sheet embedded in a porous medium	International Conference on Frontiers in fluid mechanics (ICFFM-2009)held during Aug 31 – Sep 2 ,2009 at Bangalore University, Bangalore.
11	S.Aruna and S.P.Anjali devi	Effect of counter flow jet on reduction of aerodynamic heating over a coneogive body in hypersonic tubulent flow	3 rd International congress on Computational Mechanics and Simulation held at IIT-Bombay, Mumbai on 1-5 Dec 2009, pp.185-186
12	S.P.Anjali devi and S.Aruna	A study on reduction of drag over a blunt body in hypersonic turbulent flow using counterflow jet	3 rd International congress on Computational Mechanics and Simulation held at IIT-Bombay, Mumbai on 1-5 Dec 2009, pp.187-188
13	S.P.Anjali Devi and Sara Mathew	Nonlinear Hydromagnetic flow and Heat Transfer with variable conductivity...embedded in a porous medium	54 th congress of ISTAM held during 18 th to 21 st Dec, 2009 at Nethaji Subhas Institute of Technology, New Delhi.

14	S.Aruna and S.P.Anjali devi	Effect of counter flow jet on drag and aerodynamic heating in hypersonic flow over a coneogive body	54 th congress of ISTAM held during 18 th to 21 st Dec, 2009 at Nethaji Subhas Institute of Technology, New Delhi.
15	R.Uma Devi and S.P.Anjali devi	Hall current and thermal radiation effects on hydromagnetic flow with heat and mass transfer past a porous rotating disk with soret effect	54th congress of ISTAM held during 18 th to 21 st Dec, 2009 at Nethaji Subhas Institute of Technology, New Delhi.
16	M.Kayalvizhi and S.P.Anjali devi	Nonlinear hydromagnetic flow with radiation and heat source over a stretching surface with prescribed heat and mass flux embedded in a porous medium	54th congress of ISTAM held during 18th to 21st Dec, 2009 at Nethaji Subhas Institute of Technology, New Delhi.
17	A. Nagoorgani, S.Narayanamoorthy and C.Ramkumar	A Fuzzy Approach to the Socio Economic Problems Faced by Gypsies	National Conference on Applications of mathematics in Science and Technology, conducted on March 12-13, 2009 at Sacred Heart College , Tiruppattur , pp 54-57
18	S.Narayanamoorthy and A.Nagoorgani	A Fuzzy Approach to the Forest Workers	National Conference on Applications of mathematics in Science and Technology, conducted on March 12-13, 2009 at Sacred Heart College , Tiruppattur , pp 120-125
19	A. Nagoorgani, S.Narayanamoorthy and C.Sivasakthi	A Fuzzy Approach to the problems faced by Agricultural Labourers	National Conference on Applications of mathematics in Science and Technology, conducted on March 12-13, 2009 at Sacred Heart College , Tiruppattur , pp 134-136

7. Publications of Books/Monographs:

Sl. No.	Author	Name of the Book	Publisher/Place	Year
1	-----	----	----	----

9(a). Enrolment of Overseas Students':

Sl.No.	Degree and Subject	Nationality	Number of Students		Total
			M	F	
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9 (b). Enrolment of Students' from other states

Sl.No.	Degree and Subject	Name	State	Number of Students		Total
				M	F	
1	Ph.D.	Sr.Julie Andrews	Kerala	-	1	1

10. Research Degrees Awarded / Submitted:

Sl.No.	Name of the Scholar	Name and Designation of the Supervisor	Title	M.Phil./Ph.D.
1	Mrs.P.T.Hemamalini (PT)	Dr.S.P.Anjali Devi	Studies in stability of Ferrofluid flows	Ph.D.
2	B.Ganga (FT & PT)	Dr.S.P.Anjali Devi	Studies on Nonlinear MHD forced convection boundary layer flow past a stretching porous surface with dissipation effects	Ph.D.
3	M.Agneeshwari (FT)	Dr.S.P.Anjali Devi	Thermodiffusion effects on unsteady hydromagnetic free convection flow with heat and mass transfer past a moving dependent suction and Heat source	M.Phil.
4	A.Mekala Devi (FT)	Dr.S.P.Anjali Devi	Dissipation Effects over Hydromagnetic Flow with Heat and Mass Transfer past a moving porous vertical plate with prescribed Heat and Mass flux embedded in a porous medium	M.Phil.
5	D.Vasanthakumari (FT)	Dr.S.P.Anjali Devi	MHD free convection flow of an electrically conducting fluid past a moving porous surface in slip flow regime with mass transfer and thermodiffusion effects	M.Phil.

11. Fellowships Awarded:

Sl.No.	Agency*	Position (URF/JRF/SRF/RA)	Number of Fellowships		Total
			M	F	
1	DRDL	SRF	-	1	1
2	Bharathiar University	URF	1	-	1

*(DSC/DRDO/AICTE/Ministry/CSIR, Others...)

12. Scholarships Awarded:

Nature of Scholarship	P.G.		M.Phil.		Ph.D.		Amount Rs.
	M	F	M	F	M	F	
B.C.(State)	1	12	--	--	--	--	34,028
B.C.M.(State)	-	-	-	-	-	-	-
M.B.C./D.N.C.(State)	-	-	-	-	-	-	-
SC/SCA/ST(National)	-	-	-	-	-	-	-
SC/SCA/ST(State)	-	-	-	-	-	-	-
First Generation Free Education	-	-	-	-	-	-	-
Loan Scholarship	-	-	-	-	-	-	-
Others (Specify the name of the scholarship)	-	-	-	-	-	-	-
Total	1	12	--	--	--	--	34,028

13. Placement Details:

Name of the Placement Co-ordinator: Dr.S.P.Anjali Devi

Phone No: 96003 63159

Sl.No	Number of Placements & Programme and campus interview	Number of Companies that visited the campus	Number of placements obtained through off campus interviews
	Most of the students went for higher studies. Those who opted for teaching posts, joined in various teaching positions (in both Schools and Colleges)		

14. (a) Outstanding achievements by Faculty members':

Sl.No	Name of the Faculty	Achievements	Agency
1	Dr. S. P. Anjali Devi	Awarded with UGC Major project for 3 years period with the amount Rs. 10,93,800/=	UGC

14. (b) Outstanding achievements by Students':

Sl.No	Name of the Student	Achievements	Agency
1	Mr. Sivaraman. S.N.	Placed under Indian Navy as "Assistant Commandant"	Indian Navy

15. Infrastructure and research facilities available (Please specify equipments more than Rs. One Lakh Only):

Sl.No	Name of the Equipments/Computer/Software/Others	Quantity

16. Extension activities carried out:

Sl.No.	Name of the Activity	Date	Venue	Beneficiaries
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17. Library / Learning Resources/ Information and Communication Technology Resources:

Name of the Librarian or Faculty in-charge and qualification: --- NIL---

S.No.	Particulars	Nos.	S.No.	Particulars	Nos.
1	No. of Books Available		8	No. of CDs and Digital Books	
2	No. of Titles Available		9	No. of Indian Magazines	
3	Books Added During the Year 2009		10	No. of Foreign Magazines	
4	No. of Data bases Available		11	Average no. of Students Visiting the Library per day	
5	No. of Online Journals		12	Average no. of Books Issued per day	
6	No. of Indian Journals		13	Availability of Internet (Specify the Capacity) (E.g – 8 Mbps etc.,)	
7	No. of Foreign Journals		14	Availability of Language Lab	Yes / No

18. Department Lab:

Sl.No.	Name of the Lab	Purpose Research/Practical	Equipments	
			No.	Value
1	Department of Applied Mathematics Computer Lab	Practical & Research	13 Nos. of Computers and 1 KV UPS	Rs. 2,15,792/-

19. Others (Please Specify):

a. Collaborative Research

During 2009, Dr. S.P.Anjali Devi started collaborative research work with Dr. Nayim Bayat, Germany in addition to other existing collaborative research.

b. Consultancy

Dr. S.P. Anjali Devi gave free consultancy to (i) TCS people for solving two practical problems (ii)to few PSG Tech M.Tech. students regards to their doubts in mathematical modeling

c. No. of NET/SET/GATE Qualified students - NIL