

**1. Details of the Teacher/ Academic :**

<b>Name &amp; Date of Birth</b>	: DR. DEV KANT RAO, 14.04.1973		
<b>Date of Joining in IGNOU</b>	: 29 <sup>th</sup> May 2008		
<b>Current Designation</b>	: DIRECTOR, ACADEMIC COORDINATION DIVISION		
<b>Pay Scale as on date</b>	: ACADEMIC LEVEL 13A of 7 <sup>th</sup> CPC		
<b>Qualifications</b>	M.Sc. (Zoology) (1 <sup>st</sup> Div)	1995	University of Delhi
	M.Phil. (Zoology) (1 <sup>st</sup> Div with Distinction)	1996	University of Delhi
	Ph.D. (Zoology) (Awarded)	2002	University of Delhi
	Ph.D. Title: "Effect of Sub-sterilizing Gamma Radiation on Reproductive Physiology, Mating Competence and Sperm Behaviour of F <sub>1</sub> Progeny of Treated male Moths, <i>Spodoptera litura</i> (Fabr.) showing Inherited Sterility"		

**2. Honour/Award/Fellowship/membership of Professional body/ Statutory body (internal/ external) received by the Teacher/ Academic:**

Name of the recipient	Honour /Award/ Fellowship name/ membership of Professional body/ Statutory body	Agency name /Name of statutory body/ institution/ Apex body	Period
Dev Kant Rao	Member Secretary, Academic Council, IGNOU	IGNOU	14.02.2018 to continuing

**3. Books/Book Chapter:**

- Co-author/co-editor if any, title, place of publication, publisher, Year, page (no) s, ISBN No

SNo.	Name of Author1/ Editor 1, & Co-author (s) / Co-editor (s) (if any)	Title of chapter/book	Place of publication	Publisher	Year	Total Pages	ISBN No.
1.	D K Rao and J J Kaur (2017)	Living Science Biology (2 <sup>nd</sup> edn). A book for CBSE class 9.	India	Ratnasagar pvt Ltd.	2017		ISBN 978-93-85976-90-2
2.	D K Rao and J J Kaur (2017)	Living Science Biology (2 <sup>nd</sup> edn). A book for CBSE class 10.	India	Ratnasagar pvt Ltd.	2017		ISBN 978-93-85976-89-6
3.	D K Rao and J J Kaur	Living Science Biology (3 <sup>rd</sup>	India	Ratnasagar pvt Ltd.	2018		ISBN 978-93-86600-41-7

	(2018)	edn). A book for ICSE class 9.					
<b>4.</b>	D K Rao and J J Kaur (2018)	Living Science Biology (3 <sup>rd</sup> edn). A book for ICSE class 10.	India	Ratnasagar pvt Ltd.	2018		ISBN 978-93-86600-42-4
<b>5.</b>	Dhiren M Doshi, Arun Shymal, Dev Kant Rao & Jeepinder Jeet Kaur (2009)	Science & Technology, Class 9, Meghalaya Board	Meghalaya, India	Ratnasagar pvt Ltd.	2009		ISBN 978-81-8332-548-0
<b>6.</b>	Dhiren M Doshi, Arun Shymal, Dev Kant Rao & Jeepinder Jeet Kaur (2009)	Science & Technology, Class 10, Meghalaya Board	Meghalaya, India	Ratnasagar pvt Ltd.	2009		ISBN 978-81-8332-541-7
<b>7.</b>	D K Rao (2009)	Living Science Botany 6	Chennai, India	Ratnasagar pvt Ltd.	2009		ISBN 978-81-8332-518-9
<b>8.</b>	D K Rao (2009)	Living Science Botany 7	Chennai, India	Ratnasagar pvt Ltd.	2009		ISBN 978-81-8332-520-2
<b>9.</b>	D K Rao (2009)	Living Science Botany 8	Chennai, India	Ratnasagar pvt Ltd.	2009		ISBN 978-81-8332-522-6
<b>10.</b>	D K Rao (2009)	Living Science Zoology 6	Chennai, India	Ratnasagar pvt Ltd.	2009		ISBN 978-81-8332-519-6
<b>11.</b>	D K Rao (2009)	Living Science Zoology 7	Chennai, India	Ratnasagar pvt Ltd.	2009		ISBN 978-81-8332-521-9
<b>12.</b>	D K Rao (2009)	Living Science Zoology 8	Chennai, India	Ratnasagar pvt Ltd.	2009		ISBN 978-81-8332-523-3

**4. Research Articles/Publications:**

S No.	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No
1.	Seth, R.K., Sharma, V.P., <b>Rao, D.K.</b> and Kaur, J.J.	Pupa as a physiological and morphogenetic indicator for assessing F <sub>1</sub> sterility technique for management of <i>Spodoptera litura</i> (Fabricius).	<b>Journal of Nuclear Agric. Biology</b>	26(4)	247-253	1997	ISSN. 0379-5489.
2.	Seth, R.K., <b>Rao, D.K.</b> and Kaur, J.J.	Developmental pattern of testes in F <sub>1</sub> progeny of sub-sterilized <i>Spodoptera litura</i> (Fabr.) [Lepidoptera: Noctuidae].	<b>Journal of Nuclear Agric. Biology</b>	29(3-4)	129-141	2000	ISSN. 0379-5489.
3.	Kaur, J.J., <b>Rao, D.K.</b> , Sehgal, S.S. and Seth, R.K.	Effect of hexane extract of neem seed kernel (HNSKE) on developmental and reproductive behaviour of <i>Spodoptera litura</i> (Fabr.) [Lepidoptera: Noctuidae].	<b>Ann. Pl. Protec. Sci.</b>	9(2)	171-178	2001	Print ISSN: 0971-3573. Online ISSN: 0974-0163.
4.	Seth, R.K., <b>Rao, D.K.</b> and Reynolds S.E.	Movement of spermatozoa in the reproductive tract of adult male <i>Spodoptera litura</i> : Daily rhythm of sperm descent and the effect of light regime on male reproduction.	<b>Journal of Insect Physiology</b>	48	119-131	2002	ISSN 0 022-1910
5.	Seth, R.K., Kaur, J.J., <b>Rao, D.K.</b> and Reynolds, S.E.	Sperm transfer during mating, movement of sperm in the female reproductive tract, and sperm precedence in the common cutworm <i>Spodoptera litura</i> .	<b>Physiological Entomology</b>	27	1-14	2002	ISSN: 0307-6962.
6.	Seth, R.K., Kaur, J.J., <b>Rao, D.K.</b> and Reynolds S.E.	Effects of larval exposure to sublethal concentrations of the ecdysteroid agonists, RH-5849 and tebufenozide (RH-5992) on male reproductive physiology in <i>Spodoptera litura</i> .	<b>Journal of Insect Physiology</b>	50	505-517	2004	ISSN 0 022-1910

7.	Manjulika Srivastava and Dev Kant Rao	Restructuring of Indian open universities: Need of the Hour!	University News IANUARY I 2-i 8, 20 15	53(2)	<b>13-22</b>	2015	ISSN: 0566-2257.
8.	Seth, R.K., Khan, Z., Rao, D.K. and Zarin, M.	Appraisal of sperm dynamics as a crucial trait of radio-sterilized <i>Spodoptera litura</i> (Lepidoptera: Noctuidae) and its F1 progeny for evaluation of the 'Inherited Sterility technique' for pest suppression.	Florida Entomologist <a href="https://doi.org/10.1653/024.099.sp114">https://doi.org/10.1653/024.099.sp114</a>	99(spl)	<b>105-118</b>	2016	<b>Print ISSN: 0015-4040</b> <b>Online ISSN: 1938-5102</b>
9.	Seth, R.K., Khan Z., Rao, D.K. and Zarin, M.	Flight activity and mating behavior of irradiated <i>Spodoptera litura</i> (Lepidoptera: Noctuidae) males and their F1 progeny for use of Inherited Sterility in pest management approaches.	Florida Entomologist <a href="https://doi.org/10.1653/024.099.sp115">https://doi.org/10.1653/024.099.sp115</a>	99(spl)	119–130.	2016	<b>Print ISSN: 0015-4040</b> <b>Online ISSN: 1938-5102</b>

**5. Policy Documents Reports/ Mimeos:**

S. No.	Title	Institution/ Agency	Year
1.	Handbook for Assessment and Accreditation of ODL Institutions, 2009 Including Guidelines for the Peer Team, 2009; Guidelines for ODL Institutions, 2009; Frequently Asked Questions (FAQs) , 2009	DEC, IGNOU	2009
2.	Handbook for Recognition of ODL Institutions, 2 <sup>nd</sup> edn, 2009	DEC, IGNOU	2009
3.	Handbook for PIs under convergence scheme, 2009	IGNOU	2009

**6. Book Review published : Nil**

S No.	Author/ Co-author (if any)	Title	Name of Journal	Volume	page no. (s)	Year	ISSN No

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**7. Presentation/Invited talk/Chair in National or International Seminar/Conference/ Workshops (Please do not mention if it is only participation without presentation)**

S.No.	Author/ Co author (if any)	Title of presentation, /Talk/Lecture	Name Organizing institute	Conference	City	Date and Year
1.	Seth, R.K., Khan, Z., Rao, D.K. Zarin, M. and Seth, R. 2017	Sperm behavior as a key tool ensuring operative efficiency of radio-genetic 'F1 Sterility technique' for population suppression of an economically serious Indian pest, <i>Spodoptera litura</i> (Fabr.) (Lepidoptera: Noctuidae) in lab and field simulated cages.	International Atomic Energy Association (IAEA)	"Third FAO-IAEA International Conference on Area-wide Management of Insect Pests: Integrating the Sterile Insect and Related Nuclear and Other Techniques", (IAEA-CN-248), Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture, IAEA	Vienna, Austria	22-26 May 2017
2.	Seth, R.K.,Khan, Z., Rao, D.K. and Zarin, M. 2016	Sperm activity and mating competence as crucial attributes of irradiated males and their F1 progeny in 'Inherited Sterility' tactic for suppression of a tropical pest, <i>Spodoptera litura</i> (F.) (Lepidoptera: Noctuidae).	International Congress of Entomology	XXV International Congress of Entomology (ICE 2016)	Orlando, Florida, USA	Sept. 25-30, 2016
3.	Seth, R.K.,	Appraisal of	International	Fourth FAO/	Kelowna,	June 2-

	Zubeda and Zarin, M., Sachdev B., Rao, D.K., and Bhatnagar, R.K. 2014	Crucial Behavioural, Physiological and Biochemical Characteristics of Radio-sterilized Lepidopteran pest, <i>Spodoptera litura</i> (Fabr.) and its Progeny to establish the Quality traits for a Critical Assessment of 'F1 Sterility Technique' for Pest Suppression.	Atomic Energy Association (IAEA)	IAEA Research Co-ordination Meeting on CRP, "Increasing the Efficiency of Lepidoptera SIT by Enhanced Quality Control" Kelowna, Canada (June 2-6, 2014).	Canada	6, 2014
4.	Seth, R.K., Joshi, R., Kaur, J.J. and Rao, D.K., 2003.	Interaction of entomopathogenic nematodes, <i>Steinernema glaseri</i> with moulting hormone-agonist (RH-5849) towards lepidopteran pest, <i>Spodoptera litura</i> (Fabr.). In: 5 <sup>th</sup> National Symposium on Bio-control Agents for Sustainable Management of Pests. Pantnagar, Uttaranchal, India, December 18-20, 2003. pp. 198-199.		Symposium on Bio-control Agents for Sustainable Management of Pests.	Pantnagar, Uttaranchal, India	18-20, 2003
5.	Seth, R.K., and Rao, D.K., 2002.	Role of atomic energy in pest suppression: Birth control of a lepidopteran insect pest.		International Conference on Current Development in Atomic, Molecular and Chemical Physics with Applications.	Delhi, India	March 20-22, 2002. pp.69

				pp.69		
<b>6.</b>	Seth, R.K., Kaur, J.J., <b>Rao, D.K.</b> , and Reynolds, S.E. 2001.	Bioefficacy of moulting hormone agonists, RH-5849 and RH-5992 (Tebufenozide) as environmentally safe insecticides and male sterilants on agriculturally important pest, <i>Spodoptera litura</i> .	University of Delhi	Proceeding of IUPAC International Symposium on Green Chemistry. pp.P-38.	Delhi, India.	Jan. 10-13, 2001,
<b>7.</b>	Seth, R.K., <b>Rao, D.K.</b> , and Sharma, V.P. and Reynolds, S.E. 2000.	Sperm transfer and precedence in the common cutworm, <i>Spodoptera litura</i> : An important factor in optimization of F <sub>1</sub> sterility technique for pest suppression.	International Congress of Entomology	XXI International Congress of Entomology,	Brazil	Aug.20-26, 2000.
<b>8.</b>	Seth, R.K., <b>Rao, D.K.</b> and Reynolds, S.E. 1998.	Male reproductive system of <i>Spodoptera litura</i> : development, differentiation and role of ecdysone.	International Congress on Invertebrate Reproduction and Development	Proceeding of the 8 <sup>th</sup> International Congress on Invertebrate Reproduction and Development.	Amsterdam	Aug. 10-14, 1998
<b>9.</b>	Seth, R.K., Sharma, V.P., and <b>Rao, D.K.</b> 1998.	Assessment of sperm transfer and its viability in F <sub>1</sub> sterility technique as control measure for <i>Spodoptera litura</i> (Fabr.).	International Atomic Energy Association (IAEA)	FAO/IAEA international Conference on Area-wide Control of Insect Pests Integrating the Sterile Insect and Related Nuclear and Other Techniques.	Panang, Malaysia,	28 <sup>th</sup> May-2 <sup>nd</sup> June, 1998
<b>10.</b>	Sagar, S.K., Sehgal,	Efficacy of ether extracts of seed coat of need	IARI	Proc. National Symposium	New Delhi, India	Oct. 23-24, 1997

	S.S., Baweja, V., Kaur, J.J. and <b>Rao, D.K.</b> 1997.	( <i>Azadirachta indica</i> ) and karanja ( <i>Pongamia glabra</i> ) against mosquitoes.		on Integrated Pest management in India-Constraints and Opportunities, IARI, pp.21.		
11.	Kaur, J.J., <b>Rao, K.K.</b> , Sagar, S.K. and Sehgal, S.S. 1997	Hexane-extract of neem seed kernel as an insect-growth inhibitor of <i>Spodoptera litura</i> (fabr.).	IARI	Proc. National Symposium on Integrated Pest management in India-Constraints and Opportunities, IARI, pp.22.	New Delhi, India	Oct. 23-24, 1997
12.	<b>Rao, D.K.</b> , Sehgal, S.S., Seth, R.K., Kaur, J.J. and Sagar, S.K. 1997.	Contributions towards the study of insect development: Testicular fusion in the tobacco caterpillar moth, <i>Spodoptera litura</i> (Fabr.).	IARI	Proc. National Symposium on Integrated Pest management in India-Constraints and Opportunities, IARI, pp.93.	New Delhi, India	Oct. 23-24, 1997

**8. Study Tour Organised/ Participated/ Attachment Organized/Internship: Nil**

SNo.	Details of the tour	Name of coordinating body	Duration
1.			

**9. Consultancy assignment (if any): Nil**

SNo.	Organization/ agency	Cost, title of consultancy	Duration

**10. Details of Institution/ Government/ Industry / own Institution Sponsored Research Projects (including Programme Evaluation) and Amount (Both completed and ongoing): NA**

SNo.	Agency	Amount	Duration with dates	Status i.e. ongoing/



				completed

**11. Details of PhD and MPhil Scholars (including those awarded degree): NA**

SNo.	Name and enrolment no:	Year of registration	Year of completion/ award
1.			

**12. Details of Programmes/ Courses coordinated/ written/ edited/ translated: NA**

S. No.	Programme	Course	Unit (print)/ Audio/Video/ eSLM	Coordinated/Written/ Edited (content/ language/ format)/ Translated	Period

**13. Training programmes designed and conducted, duration and dates:**

S.No.	Programme	Dates	Place	Number of Participants
1.	Orientation Programme for PIs of Punjab, Uttarakhand, UP, Punjab, Haryana, Jammu and Kashmir under Convergence scheme	26 <sup>th</sup> Dec, 2008	Aura Institutions, New Delhi	40
2.	Orientation Programme for PIs of Kerala under Convergence scheme	30 <sup>th</sup> Dec, 2008	Mar Athanasius College, Kothamangalam, Cochin, Kerala	60

**14. Details of Counselling sessions conducted: Nil**

SNo.	Programme	Course	Place	Dates	Duration	Mode (Specify- Face to Face Radio Counselling Teleconferencing Web conferencing Any Other)

**15. Details of Patents granted (if any):**

**16. Administrative position/s held in the University (even as in charge)**

S. No.	Designation	Period

**(Duly authenticated by the Director/ Head of School/ Division/ Unit/Centre / Cell)**

<b>1.</b>	Deputy Director, Distance Education Council, IGNOU	29.05.2008 till 31.5.2013
<b>2.</b>	Deputy Director, Distance Education Bureau, UGC	01.06.2013 till 28.2.2015
<b>3.</b>	Deputy Director, Academic Coordination Division, IGNOU	1.03.2013 till Cont.
<b>4.</b>	Director (I/c), Academic Coordination Division, IGNOU	14.02.2018 till contd.

**17. Any other contribution/information**

**Dev Kant Rao**  
**Deputy Director & Director (I/c) IGNOU**