

Bio-data of Professor Vijay V. Mandke

(Awarded DNYANADEEP PURASKAR 2004)

(As on 5 August 2004)

Index	Page
A. Name	2
B. Date of Birth, Place of Birth, Age	
C. Permanent Address	
D. Mailing address	
E. Educational Qualifications	
F. M. Tech. Thesis	3
G. Ph. D. Thesis	
H. Professional Experience / Positions Held	
I. Master's Thesis Guided	6
J. (I) Doctoral Thesis Guided	
(II) Currently being guided in the area of Information Integrity	7
K. Publications	
(K-1) In the areas of Control Systems and Systems Optimization	
(K-II) In the areas of Cooperative Education Linking education-Work	
(K-III) For the Fourth World Conference on Cooperative Education held at Edinburgh, Scotland, September 2-6, 1985	8
(K-IV) In the area of Distance Education	
(K-V) In the area of Information Integrity	9
(K-V-i) Papers in the area of Information Integrity	
(K-V-ii) White Papers in the Area of Information Integrity:	
L. Seminars delivered/ Meetings organized in area of Information Integrity	
M. Reports/Documents Supervised	
(M-I) Reports/Documents supervised at BITS, Pilani on various aspects of Cooperative Education	11
(M-II) Reports/ Documents on different educational subjects prepared/ supervised/ participated at School of Engineering & Technology, Indira Gandhi National Open University, New Delhi, India	
N. Case Study and Monograph Prepared	
O. Book writing (including in the area of Information Integrity)	12
P. Visits Abroad for Conference, Study Tours, Research Interactions, etc.	13
Q. Other Conferences Attended in India	14
R. Organization of Conferences	
S. (I) Membership	
S (II) Founder Membership	15
T. National Working Group Participation	
U. Consultancy	
V. Project Assignments	
W. Honor	
X. Fields of Interest	16

Bio-data of Professor Vijay V. Mandke

(as on 5 June 6, 2004)

A	Name	Vijay Vasant Rao Mandke
B-I	Date of Birth	25 th October 1943
B-II	Place of Birth	Shivaji Park, Dadar, Mumbai, Maharashtra State, India
B-III	Age as on 5.6.04	60 Years 7 Months
C	Permanent Address	Professor Vijay V. Mandke Professor Vijay V. Mandke Flat A-2, Nikash Skies, Someshwarwadi, Pashan Pune – 411 008, India Phone: (+91) 20 – 25884421/ 25884321
D	Mailing (Current) Address	<ul style="list-style-type: none"> • Professor Vijay V. Mandke Research Leader, Center for Information Integrity Research, Unitech Systems (I) Pvt. Ltd., <ol style="list-style-type: none"> 1. B-64 (First Floor), Gulmohar Park, New Delhi – 110 049, India Phone: (+91)11- 26850231/ 26531985 2. Flat A-2, Nikash Skies, Someshwarwadi, Pashan Pune – 411 008, India Phone: (+91) 20 – 25884421/ 25884321 • E-mail: <ol style="list-style-type: none"> (a) vmandke@unitechsys.com (b) vijaymandke@satyam.net.in

(E) Educational Qualifications:

Degree/Examination	Institution Attended	Year	Class
S.S.C.E., State of Maharashtra	Balmohan Vidyamandir, Shivaji Park, Dadar, Mumbai	1959	I
Intermediate Science	St. Xavier's College, Mumbai Under University of Bombay	1961	I
B. Tech (Hons.) Electrical Engineering	Indian Institute of Technology, Bombay, India	1965	I
M. Tech in Electrical Engineering	Indian Institute of Technology, Kanpur, India	1967	I
Ph. D. in Electrical Engineering with specialization in Control Systems	Indian Institute of Technology, Kanpur, India	1970	-

(F) M. Tech. Thesis:

Mandke, V. V., "On the Problem of Self-optimization of a Chemical Process of the type

$$N_1 \xrightarrow{k_1} N_2 \xrightarrow{k_2} N_3, \text{ EE - 2 - 67, Indian Institute of Technology, Kanpur, 1967.}$$

(G) Ph. D. Thesis:

Mandke, V. V., "Some aspects of Continuous Stochastic Optimal Control Problems",
Doctoral Thesis, Department of Electrical Engineering, Indian Institute of Technology,
Kanpur, 1969.

(H) Professional Experience / Positions Held:

Position	Period	Type of work undertaken
i) Research Assistant in EE Dept. at IIT Kanpur while working towards Ph.D.	1966-69	a) In-charge of Laboratories and Tutorials.
		b) Research in the field of Stochastic Control and Estimation.
ii) Lecturer in the EE Dept. of BITS, Pilani.	1969-70	a) Teaching of undergraduate and post-graduate courses in the field of Control and Estimation
		b) Research in terms of guiding of Master's Thesis.
iii) Assistant Professor in Electrical & Electronics Engineering Dept., and In-Charge, Practice School Program, BITS, Pilani.	1970-76	a) Participation in Course Development for courses like 'Stochastic Systems', 'Systems Modeling', 'Impact of Science and Technology' and 'History of Science and Technology'.
		b) Research.
		c) Participation in preliminary planning of Practice School System of Education inclusive of planning and implementation of the first BITS Practice School Station at Hindalco, Renukoot and subsequent expansion of the PS Program.

iv) Professor in EEE Department & Dean, Practice School Division, BITS, Pilani.	1976-86	<p>a) Responsible for planning, developing and implementing educational reform of '<u>University-Industry Collaboration</u>' through the 'Practice School Program' started by BITS since 1973 for all the three faculties, namely, Engineering, Science and Humanities.</p> <p>Responsible for initiating Collaborative Post-graduate Engineering (M.E.(Colla.)) programs.</p>
		b) Teaching and Research in Control Systems area of Electrical Engineering, and in Educational Reform Linking Education-Work.
v) Professor in EEE Dept., and In-Charge, Distance Learning Program Unit, BITS, Pilani.	December, 1986-September 1988	<p>Responsible for planning, developing and implementing Distance Learning Programs at BITS, Pilani.</p> <p>b) Teaching and research in control systems area of Electrical Engineering and in the field of Education with particular reference to Education-Work (Vocational education included) linkages at UG, PG and Polytechnic levels), and the area of Examinations Research.</p>
vi) Dy. Director, BITS, Pilani.	September 1988-August 1989	<p>a) Total responsibility for Education-Work Linkage Programs at BITS, Pilani in terms of Education-Work Linkages through:</p> <ul style="list-style-type: none"> i) Practice School Program at UG level, ii) Collaborative Post-Graduate, Engineering Programs, iii) Doctoral Activity in Industry, iv) Educational Research & Development, v) Educational Consultancy.

<p>vii) Director and Professor, School of Engineering & Technology, Indira Gandhi national open University, New delhi-110049, India.</p>	<p>August 1989- June 3, 1999 (Took a voluntary retirement).</p>	<p>a) As Director, School of Engineering & Technology, Indira Gandhi National Open University responsibilities included planning, designing & developing and implementing Employment related continuing and further education programs in Engineering through distance mode. Thus, from Feb. 1995, initiated Advanced Diploma Programs leading to Engineering Degree through Distance mode to upgrade diploma holders working in employment sectors of Construction and Water Resources Engineering.</p>
		<p>b) Further, from 1996-1999, (i) initiated Post-Advanced Diploma Level Modules leading to B. Tech. Civil Engineering Degree in distance mode with specialization options in Construction Management and in Water resources Engineering, (ii) completed planning and design of Employment related, modular B. Tech. Programs in Mechanical and Electrical Engineering with intermediate exit points at Post -- Diploma Certificate, Advanced Diploma, and Post-Advanced Diploma Certificate levels, and (iii) in collaboration with CSIR and CIDC, planned, designed and implemented Competency based Skill Development Certificate Programs for Tannery and Construction workers at work..</p>

viii) Research Leader, Center for Information Technology Research, Unitech Systems (I) Pvt. Ltd., New Delhi, India.	June 4, 1999 onwards.	As Research Leader, Center for Information Integrity Research (CIIR) responsibilities include: creating, organizing, expanding and disseminating knowledge about the Integrity of Information and Information Systems, so as to develop Information Integrity (I*I) as a recognized field of knowledge. Accordingly, CIIR activities planned aim at: -Creating awareness about Information integrity among educators, researchers, academic institutions, and professional societies. -Identifying individuals and institutions interested in Information Integrity research and education. -Building a network of Information Integrity researchers and educators and initiate research and education activities. -Organizing seminars, workshops, symposiums, discussion meetings, etc. to present, disseminate, and document the research and educational outcome. -Implementing promotional programs to generate motivation and professional prestige among academia, practitioners, and students about the field of Information Integrity.
---	-----------------------	--

(I) MASTER'S THESES GUIDED:

- i) On the problem of Stochastic Stability.
- ii) Continuous Stochastic Optimization of the Chemical Process.
- iii) Optimal Estimation of discrete Stochastic Systems.
- iv) Continuous nonlinear filtering in the presence of complete/incomplete systems information.
- v) Computational aspects of the solution to the Forward Kolmogorov Equation.
- vi) DYSYS: An executive program for simulation on IBM 1130 computer.
- vii) Modeling the Alumina Plant of HINDALCO, Renukoot.

(J-I) DOCTORAL THESES GUIDED:

- i) "An Analytical Study of Some Aspects of the Continuous Internal Evaluation System at Tertiary Level" by Anita Dubey, BITS, Pilani, July, 1981.
- ii) "An Analytical study of some aspects of multiple objective examinations under transfer of learning situations at the tertiary level" by Anjan Ghosh, BITS, Pilani, December, 1988.
- iii) "A Computerized Information System for Off-campus Educational Administration" by Smarajit Dey, BITS, Pilani, October, 1990.

- iv) "Design of an Institute-Industry Interface with particular reference to Polytechnic Education in India" by Shakti Singh, BITS, Pilani, 1991.
- v) "Design and development of an Interactive Teaching-Learning System for technical Education" by Sanjib Kumar Bhattacharya, BITS, Pilani, 1991.
- vi) "Interactive Networking for polytechnic-Industry interface - A System's Approach" by Laxmi Narain, BITS, Pilani, 1992.

(J-II) DOCTORAL THESIS BEING CURRENTLY GUIDED:

Currently, jointly with Prof. Ramesh, Dept. of Computer Science and Engineering, IIT, Bombay, Prof. Mandke is guiding doctoral candidate Ms. Reema Khurana at Dept. of Computer Science, S.N.D.T. University, Mumbai. Ms. Khurana is working on doctoral problem, namely, "Achieving Information Integrity in Open System Databases".

(K) PUBLICATIONS:

(K-1) In the areas of Control Systems and Systems Optimization:

- 1) Mandke, V. V. & Rajaraman, V.; 'Design of a Self-Optimizing Chemical Process', Chemical Age of India, Vol. 21, No. 4, April, 1970.
- 2) Sarma, I.G., Ragade, R.K., and Mandke, V. V.; 'Markov Positional Games', In Proc. of First Intl. Conf. on the Th. And Appl. Of Differential games, University of Massachusetts, Amherst, 1969.

(K-II) In the areas of Cooperative Education Linking Education-Work:

- 1) Mandke, V. V.; 'Education & Development', presented at Association of Indian Universities (AIU) Seminar held in 1975 at Indian Institute of Technology, Delhi.
- 2) Mandke, V. V.; 'Management Education & Development', Journal of Higher Education, University Grants Commission, Vol. 1, No. 3, Spring 1976.
- 3) Mandke, V. v.; 'Engineering Education in India', paper presented at the seminar on Engineering Education on the occasion of 25 Years of IIT Kharagpur organized by Indian Institute of Technology, Madras, February, 1976
- 4) Mandke, V. V., 'Practice School: Linking Higher Education with Environment', CSIO, Communications, Chandigarh, 1975, Vol. 2, No. 4, pp. 62-67.
- 5) Mandke, V. V.; 'A Note on the Role of a University in the search for Techniques for the Rural Poor of the Third World - A BITS Experience', paper presented at International Seminar on Techniques for the Rural Poor of the Third World organized by Center of Science for Villages, Sevagram, Wardha, January 22-25, 1978.
- 6) Mandke, V. V. and Mrs. Dubey Anita; 'On Multiple Objective Examinations in class-room based Teaching at Tertiary Level', PRACOLLAB, publication of Practice School Division, BITS, Pilani, Vol. 1, No. 3, 1982-83.
- 7) Mandke, V. V.; 'Some Reflections on the Use of Practice School Reports', PRACOLLAB, publication of Practice School Division, BITS, Pilani, Vol. 1, No. 3, 1982-83.
- 8) Mandke, V. V., 'Linking University-Industry: Cooperative Education at BITS, Pilani', an invited paper presented at the 'National Symposium on Industry-Academia Interactions' (INDAC-85), Indian Institute of Technology, Kanpur, January 7-9, 1985.

(K-III) For the Fourth World Conference on Cooperative Education held at Edinburgh, Scotland, 2-6 September, 1985.

- Papers by Mandke V. V.

- 1) Educational reform Linking University Training with Industry - Cooperative Education at BITS, Pilani.
- 2) Student Evaluation under Cooperative Education Programs at First degree Level (along with Arora, J. L. and Ghosh Anjan as co-authors).
- 3) Design and Development of an Integrated Computerized Information System for Planning of Cooperative Educational programs (along with Rao V. P. as co-author).
- 4) A Computerized Information System for Monitoring Operation of Cooperative Education (along with Dey Smarajit as co-author).
- 5) PS Student Feedback Response Analysis-I (along with Arora J. L., Dey Smarajit and Prasad S. N. as co-authors).
- 6) PS Student Feedback Response Analysis-II (along with Arora J. L., Dey Smarajit and Prasad S. N. as co-authors).
- 7) Financial Analysis of Cooperative Education programs (Mittal, S.C. and Dey, Smarajit as co-authors).
- 8) Cooperative Education as a Viable Channel for Strengthening In-house R & D Infrastructure in national industry - A Model (along with Rao V. P. as co-author).
- 9) Mandke, V.V.; 'Cooperative Education - Indian Experience', Special Issue on Engineering education in India, The International Journal of Engineering Education, Germany, Vol. 20, No. 1, 1994, pages 52-60.

(K-IV) In the area of Distance Education:

- 1) Mandke, V. V.; 'Linking Education-Work for National Development: Educational Strategy for training a Learner Entrepreneur', paper presented to the Sub-committee No. 2 on 'Education and Right to work' and to Sub-committee no. 6 on 'Rural Education' of the National Education policy appointed by the Govt. of India, 1990.
- 2) Mandke, V. V. and Mishra, A. K.; 'The Challenge of Vocational Education through Distance and Open Learning - Strategies (A Planning construct)', paper presented at SAARC Workshop on distance education organized by MHRD, GOI, New Delhi, 11-13 April, 1991.
- 3) Mandke, V. V.; 'Face to Face components in Engineering education through Distance Channel - Issues and possibilities', Paper presented at AAOU Annual Conference, Colombo, Sri Lanka, September, 1991.
- 4) Mandke, V. V., 'Distance Learning Programs in Construction Management: Unique opportunity for Construction Manpower for Professional Advancement', All India Builders' convention organized by builders' Association of India Pune Center, Pune, December, 1991.
- 5) Mandke, V. V.; 'Learning of Science & Technology through distance mode', paper presented at IGNOU Regional Conference, Shillong, India, June, 1993.
- 6) Mandke, V. V.; 'Designing Workable Mechanism for Institution-industry interaction', Key Note Address at Workshop on Industry Attachment Program by Dept. of Electronics, GOI, Bangalore, 13-18 June, 1994.

- 7) Mandke, v. V.; 'Learning of science and Technology through the Distance mode: Opportunity for Continuing education at the Work place', Special issue on engineering education in India, The International Journal of Engineering Education, Germany, Vol. 10, No. 1, 1994.
- 8) Mandke, V. V.; 'A Project Proposal for setting up Vocational Qualification Set-up for competency based education for people at work', SOET, IGNOU, New Delhi, December, 1994.
- 9) Mandke, V. V. and Maji Subhashish; 'Conducting Practical and Project Courses in Science & Technology through Distance Education - A Note on Engineering Programs', paper presented at Post AAOU Conference jointly organized by IGNOU, New Delhi and OLI, Hongkong, New Delhi, India, February, 1995.
- 10) Kulandaiswami, V. C. and Mandke, V. V.; 'Planning for Flexible and Distance Learning in Engineering- Indian Experience', European Journal of Engineering Education, Vol. 20, No. 2, 1995.

(K-V) In the area of Information Integrity:

(K-V-i) Papers in the area of Information Integrity:

- 1) Mandke Vijay V. and Nayar Madhavan K.; 'Information Integrity - a Structure for its Definition', Proceedings of the 1997 Conference on Information Quality edited by Diane M. Strong and Beverly K. Kahn, MIT, Cambridge, Massachusetts, USA, 24-26 October, 1997, pp. 314-338.
- 2) Mandke Vijay V. and Nayar Madhavan K.; 'Information Integrity Technology product Structure', Proceedings of the 1998 Conference on Information Quality edited by InduShobha Chengalur-Smith and Leo L. Pipino, MIT, Cambridge, Massachusetts, USA, 23-25 October, 1998, pp. 232-246.
- 3) Mandke Vijay V. and Nayar Madhavan K.; 'Design Basis for Achieving Information Integrity', In Integrity and Internal Control in Information Systems edited by Sushil Jajodia, William List, Graeme W. McGregor and Leon A. M. Strous, Proceedings of IFIP TC 11 Working Group 11.5 Second Conference : Bridging Business Requirements and Research Results, Warrenton, Virginia, USA, November 18-19, 1998, published by Kluwer Academic Publishers. Boston, USA, 1998.
- 4) Mandke Vijay V. and Nayar Madhavan K.; 'Modeling Information Flow for Integrity Analysis', Proceedings of the 1999 Conference on Information Quality edited by Yahg W. Lee and Giri Kumar Tayi, MIT, Cambridge, Massachusetts, USA, 22-24 October, 1999, pp. 38-57.
- 5) Mandke Vijay V. and Nayar Madhavan K.; 'Implementing Information Integrity Technology', In Integrity and Internal Control in Information Systems edited by Margaret E. van Biene-Hershey and Leon A. M. Strous, Proceedings of IFIP TC 11 Working Group 11.5 Third Conference: Strategic views on the Need for Control, Amsterdam, The Netherlands, November 18-19, 1999, published by Kluwer Academic Publishers. Boston, USA, 1999.
- 6) Vijay V. Mandke and Madhavan K. Nayar, "Information Integrity Imperative for Competitive Advantage in Business Environment characterized by Uncertainty", Proceedings of information Technology for Business Management, 16th World computer Congress 2000, August 21-25, Beijing, China.

- 7) Vijay V. Mandke, Madhavan K. Nayar and Kamna Malik, "Information Envelope and its Information Integrity Implications- For a complex and changing environment, modeling a generic business process as integral to a closed loop information and control system characterized by uncertainty", Proceedings of the 2001 Conference on Information Quality, Edited by Elizabeth M. Pierce and Raissa Katz-Hass, Cambridge, Massachusetts, USA, 3-4 November, 2001.
- 8) Mandke Vijay V. and Nayar Madhavan K.; 'Implementing Information Integrity Technology' - Updated, Special Issue of International Journal of Informatica, June 2002.
- 9) Vijay V. Mandke, Martin Bariff and Madhavan K. Nayar, "Demand for Information Integrity in Hospital Management", Proceedings of *Hospital of the Future Conference*, I. I. T., Chicago, 28-30 July 2002.
- 10) Vijay V. Mandke and Madhavan K. Nayar, "Cost Benefit Analysis of Information Integrity", Proceedings of the 2002 International Conference on Information Quality, MIT, Cambridge, Massachusetts, USA, 8-10 November, 2002.
- 11) Vijay V. Mandke and Madhavan K. Nayar, "Beyond Quality – The Information Integrity Imperative", Proceedings of 8th World Congress on Total quality Management, Dubai, 6-8 October, 2003.
- 12) Mandke Vijay V., Sharon Miller, Paul Prabhakar, Manu Vora, and Nilu Vora, "Achieving Information Integrity in Healthcare," Proceedings of the American Healthcare Information Management Association (AHIMA) Conference, Minneapolis, USA, 19-21 October 2003.
- 13) Vijay V. Mandke and Madhavan K. Nayar, "Beyond Quality – The Information Integrity Imperative", Accepted for publication in International Journal on Total Quality Management, Taylor & Francis Ltd., Volume 15 No. 5&6, 2004.
- 14) Vijay Mandke, "A Short Note on Understanding Nature of Uncertainty and Risk in Healthcare Delivery System – Information Integrity Based View", To appear in HCTM Electronic Journal, UK, 2004.

(K-V-ii) White Papers in the Area of Information Integrity:

- 15) Mandke, V. V.; 'Information Integrity: Towards Total Quality Management of Information systems - An introductory document', Paper for limited circulation, New Delhi, May 14, 1994.
- 16) Mandke, Vijay V.; 'Information integrity - A Structure for It's Definition', CIIR's IIR Library, New Delhi, India, No. 86, June, 1997.
- 17) Vijay V. Mandke and Madhavan K. Nayar, "Planning Framework for Achieving Information Integrity", CIIR Paper for Limited Circulation, New Delhi, April 2001
- 18) Vijay V. Mandke and Madhavan K. Nayar, "Global Product and Local Market; Criticality of Information Integrity for Competitive Advantage", CIIR Paper for Limited Circulation, New Delhi, October 2002.
- 19) Vijay V. Mandke and Madhavan K. Nayar, "Information Integrity - Thermodynamic Interpretation of Loss of Information Integrity in Information System and Information Therefrom", CIIR Paper for Limited Circulation, New Delhi, October 2002.
- 20) Vijay V. Mandke and Madhavan K. Nayar, "Information Integrity a critical factor in Structure Safety, Security and Reliability", CIIR Paper, New Delhi, December 2002.
- 21) Vijay V. Mandke and Madhavan K. Nayar, "Information Integrity – Adding Value to Corporate Assets", CIIR Paper, February 28, 2003.
- 22) Vijay V. Mandke, "Elements of Information Integrity", CIIR Paper, May 2003.

- 23) Vijay Mandke, “Making A Case for Information Integrity in Healthcare – I”, CIIR Paper, New Delhi, June 2003.
- 24) Vijay Mandke, “Making A Case for Information Integrity in Healthcare – II”, CIIR Paper, New Delhi, July, 2003.
- 25) Vijay Mandke, “Unanticipated consequences of foreign direct investment – Requirement to control Information Integrity for comparative advantage”, CIIR Paper, New Delhi, August 2003.
- 26) Vijay v. Mandke, “Systems Engineering of Information Integrity – A Search for Information Integrity processes”, CIIR Paper , September 2003.
- 27) Mandke V.V., Traditional IS, Quality IS, and Integrity IS – A Comparative Statement, CIIR Paper, New Delhi, February 2, 2004.
- 28) Mandke V. V., Two Examples Illustrating Analytical Approach To I*I Process Level I Design For Ensuring Integrity IS in the face of Environmental Variations, CIIR Paper, 5 March 2004.
- 29) Mandke V.V., Information Integrity: Research & Education Issues, CIIR paper for colloquium presentation at IIT Bombay, April 2004.

(L) Seminars, guest lectures, colloquium delivered/ Meetings, research workshops organized by Prof. Vijay Mandke in the area of Information Integrity (List indicative):

1. August 29, 2000: Prof. Mandke gave a seminar on “Information Integrity” to a group of computer science professors from universities in Shanghai, China.
2. December 8, 2000: Delivered a seminar on “Information Integrity” at Dept. of Computer Science and Engineering, IIT Bombay at Powai, Mumbai, India.
3. August 25, 2001: Information Integrity Research and Education (IIRE) Agenda Brainstorming Meeting held at IIT Bombay.
4. September 21, 2001: Delivered a seminar at Rajive Gandhi Technological University, Bhopal on “Information Integrity”.
5. October 29, 2001: Delivered a seminar on “Information Integrity – A Research Initiative” at Management Science Dept., University of Colorado at Boulder, USA.
6. November 12, 2001: Delivered a seminar on "Information Integrity Initiative" to the Gurukul Chevening Fellows at European Institute at LSE, London.
7. August 5, 2002: Delivered a seminar on “Analytical Framework for Information Integrity” at IIC, Chicago, USA.
8. November 6, 2002: Delivered a guest lecture at the Stuart Graduate School of Business, IIT, Chicago on “Information Integrity”.
9. September 2003: I*I Guest lecture at RBI, Pune course for Bank executives.
10. November 5, 2003: Delivered a guest lecture at the Stuart Graduate School of Business, IIT, Chicago on “System Engineering of I*I”.
11. November 6, 2003: Presented two seminars at the Information Integrity Coalition Meeting held at Stuart Graduate School of Business, IIT Chicago.
 - a. First seminar was on “Information is a product and not a by-product”, and
 - b. Second seminar was on “Beyond Quality: The Information Integrity Imperative”.
12. November 24, 2003: Presented a seminar on “I*I Research and Education issues” to the Design Group at the Mechanical Engineering Department of University of Bath, Bath, UK.
13. April 13, 2004: Delivered at IIT Bombay Institute Colloquium on “Information Integrity: Research & Education issues”.

14. September 2002- May 2004: Organized a large number of intensive I*I research workshops to train faculty members of institutions at Delhi, Pune, etc. for undertaking research and education in I*I.
15. November 19, 2004: Organized I*I seminar presentation by Ms. Reema Khurana at RBI, Pune.
16. November 20, 2004: Participated in I*I Seminar presentation by Ms. Reema Khurana at P.G. Dept. of Computer Science, S.N.D.T. University, Mumbai.
17. November 23, 2004: Delivered a faculty seminar on “Information Integrity” at Kashibai Navale College of Engineering for Women, Sinhgad Technical Institute, Pune.
18. December 13, 2004: Delivered a faculty seminar on “I*I: Research & Education Issues” at Cummins College of Engineering for Women, Pune.

(M-I) Reports/Documents supervised at BITS, Pilani on various aspects of Cooperative Education:

- 1) 'Linking University-Industry', Technical Documentation series (TDS), No A2, Practice school Division, BITS, Pilani, 1883, pp. 14.
- 2) 'Practice school - A New Concept in Higher Education', Special Issue of the Birla Vidya Vihar Bulletin, BITS, Pilani, TDS, No. D2, pp.296.
- 3) 'BITS Cooperative Education Programs - Operations Manual', TDS No. A4, November, 1983, pp. 443.
- 4) 'Checklist for PS- I', TDS No. A5, Practice school Division, BITS, Pilani, Nov. 1994, pp.24.
- 5) 'A List of PS-II Assignments', TDS No. A7, Practice School Division, BITS, Pilani, 1983, pp. 61.
- 6) 'PS-I Student Feedback Analysis', TDS No. A9, Practice School Division, BITS, Pilani, 1983.
- 7) 'PS-II Student Feedback Analysis', TDS No. A10, Practice School Division, BITS, Pilani, 1983.
- 8) Shukla S. C., Mathew Sujit, and others; 'BITS Cooperative Education - A Statistical Outline' (In Three Parts), PS Division, BITS, Pilani, 1984.
- 9) Rao, V. P. and Devi Kumari G. R.; 'A Systems User's and Operator's manual for PS Planning Software', TDS No. A11, Practice School Division, BITS, Pilani, 1984.
- 10) Subramanian, G.; 'Preference Analysis for PS-II Students', First degree thesis in Educational Administration of Cooperative Education, BITS, Pilani, 1983.
- 11) Zutshi, Sandip; 'Design of Software for Integrated PS Division Data Base', First degree thesis in Educational Administration of Cooperative Education, BITS, Pilani, 1983.

(M-II) Reports/ Documents on different educational subjects prepared/supervised/participated at School of Engineering & Technology, Indira Gandhi National Open University, New Delhi, India.

- 1) 'A proposal for IGNOU-Industry Collaboration - A concept paper', October, 1989.
- 2) 'Employment related short programs and courses in Construction Management - A design basis for Co-operative Distance Learning', SOET, IGNOU, 1990.
- 3) 'A Proposal for IGNOU-BHEL Collaboration - A Concept Paper', SOET, IGNOU. 1990.
- 4) 'Training Needs in Construction Management: Employer view', SOET, IGNOU, 1990.

- 5) 'Approach Paper on Course Development in School of Engineering & Technology', SOET, IGNOU, 1992.
- 6) Planning for employment related post diploma level, flexible and modular distance learning program structures with intermediate exit points and leading to engineering degree for continuing and further education for those at work in Civil, Mechanical and Electrical & Electronics Engineering.
- 7) Competency based Skill Development Certificate Programs for those at work in Tannery sector and in Construction sector at worker and supervisory levels.

(N) Case Study and Monograph Prepared:

- 1) Mandke, V. V.; 'BITS Practice School - A Case Study in Industry-University Collaboration', BITS, Pilani, 1979.
- 2) Mandke, V. V.; 'M. E. (Collaborative) Programs - Description of a Cooperative Postgraduate Engineering Education', Practice school Division, BITS, Pilani, 1982.

(O) Books Written:

- 1) Co-authored the book 'Challenge and Response - Towards a New education policy and Beyond', Wiley Eastern, New Delhi, 1986.
- 2) Rajaraman, V., and Mandke, V. V.; 'Information Integrity - Issues and Approaches: Proceedings of the JNCASR and SERC, IISc Campus Discussion Meeting, June 22-23, 1995.

(P) Visits Abroad for Conference, Study Tours, Research Interactions, etc.:

- 1) Sponsored by Commonwealth Foundation Prof. Mandke attended 4th World Conference on cooperative Education held at Napier College, Scotland, UK from 2-6 September, 1985. List of papers presented by Prof. Mandke is given in Section (K-III).
- 2) Under the sponsorship of the Commonwealth of Learning, Prof. Mandke attended the 4th Cooperative Education World Conference in U.K. in September 1985.
- 3) From 7th September, 1985 to 13th November 1985, under the sponsorship of British Council, Prof. Mandke visited various British universities to know about the Sandwich programs and the Open University.
- 4) In 1985, Prof. Mandke visited UNESCO, Paris for discussions on University-Industry Linkages.
- 5) In 1988, invited by USIS, India to visit US universities.
- 6) Sponsored by British council, Prof. Mandke visited U.K. in May 1990 to study Open Learning programs with particular reference to technical and vocational training.
- 7) Visited Colombo, Sri Lanka in September, 1991 to attend AAOU Annual Conference.
- 8) In 1990, invited by Zaporozhye Industrial Institute, Ukrain (then under USSR) for ten day visit to interact on the subject of new trends in technical education.
- 9) From 28th April-5th May, 1995 visited Toronto, Canada to participate in Unitech Information Integrity Conference.
- 10) From 5-30 May, 1995, visited USA to study research initiatives in the area of Information integrity and to interact with universities conducting continuing education programs through distance mode.

- 11) In 1996, visited USA to participate in Unitech Information Integrity Conference.
- 12) In April/May 1997, visited Mozambique at the invitation of Mozambique Railway Board to make presentations before the Mozambique Railway Board and the World Bank on Competency based training for Skill Development for gainful employment.
- 13) In 1997, visited USA to attend Information Quality 1997 and Unitech Information integrity Conferences.
- 14) In 1998, visited USA to attend IFIP and Information Quality 1998 Conferences.
- 15) In 1999, visited USA to attend Unitech Information Integrity, Gartner Group and Information Quality 1999 Conferences.
- 16) In November 1999, visited Amsterdam and Germany to attend IFIP Conference and for research discussions on Information Integrity.
- 17) In 2000, visited USA for research interactions on Information Integrity.
- 18) In August/ September 2000, visited China for attending World Computer Congress 2000.
- 19) In September 2000, visited Asian Institute of Technology , Bangkok for and presented a Talk on Research Initiatives in Information Integrity.
- 20) In October-November 2001, visited USA and UK for paper presentation at IQ 2001 at MIT, and for research interactions and seminars in the area of Information Integrity.
- 21) In July-August 2002, visited USA for paper presentation at Hospital of Future Conference at Chicago
- 22) In October-November 2002, visited USA for paper presentation at MIT-ICIQ 2002.
- 23) In October – 2003, visited Dubai for presenting paper at 8th TQM World Congress.
- 24) In October-November 2003 visited USA to attend AHIMA and MIT ICIQ 2003 Conferences.
- 25) In October 2003, visited Toronto, Canada to attend ISACA conference.
- 26) In November 2003, visited UK for I*I research interactions at University of Bath.

(Q) Other Conferences Attended in India:

- 1) Participated in Round Table Conference on Emerging Trends in Higher Education organized by BITS, Pilani on November 23, 1985 at New Delhi.
- 2) Attended Conference on "Education for Excellence: Planning for the 21st Century" by USIS, India held at Jaipur from 22-25 November, 1986. Delivered keynote address on 'Education-Work Linkages'.
- 3) Invited by MHRD, GOI to attend a meeting on Adult education at Nagpur in December 1986.
- 4) Delivered a Keynote Address at the Seminar on "Productivity in Copper Industry" held on 17th January, 1987 organized by Khetri Nagar chapter of Indian Institute of Metals on the occasion of its 7th Annual Technical Meeting.
- 5) Inaugurated short-term Course in Organization of Training and Placement services on 16th February, 1987, organized by Technical Teacher's Training Institute, Chandigarh.
- 6) Presented an Invited Seminar on 'Information Integrity - Issues and Approaches' at Computer Society of India Annual Convention at Bombay in November, 1999.
- 7) Presented a Seminar on "Research Initiatives in Information Integrity" at Computer Science & Engineering Dept., IIT Bombay, December 8, 2000.

(R) Organization of Conferences:

- 1) Organized at BITS, Pilani, a National Conference of Employers on how to establish links between School and Industry for the implementation of Vocational education, June, 1985, under the sponsorship of Ministry of Education, GOI.
- 2) Prof. V. Rajaraman and Prof. Mandke organized 'A Discussion Meeting on Information Integrity - Issues and Approaches' at JNCASR and SERC, IISc Campus, 22-23 June 1995.

(S-1) Membership:

- 1) Member of the International Educational consortium, New Delhi.
- 2) External Member of the Faculty of Engineering & Technology, University of Rajasthan for a three year term December 1984.
- 3) Member Task Force committee on Technology Demonstration Process, GOI, MHRD (Department of Education), New Delhi. Submitted report to GOI, July, 1987.
- 4) Visitor's nominee for Selection Committee for B.H.U. for a period of three years from 1989 onwards.
- 5) Member of the UGC Visiting Committee for Osmania University.
- 6) Member of Board of Management, Indira Gandhi national Open University, 1992-94.
- 7) Member of Executive Council, Indian council of technical Education, India, 1992-94.
- 8) Member, Distance Learning Committee of Institution of Engineers, India.
- 9) Member, Executive Committee, National Open School, New Delhi.
- 10) Member, Committee on Technical Education, MHRD, GOI, New Delhi.
- 11) Member, Review Committee for Dept. of Education, University of Delhi, Delhi, India.
- 12) In 1992, Member of the Board of Studies for M.E.(Industrial) at TTTI Chandigarh.
- 13) In 1992, Member of the Committee on core Group on open Education appointed by Planning commission, GOI, New Delhi.
- 14) From 2003, Member of Health Care Technology Management (HCTM) Board, UK.

(S-2) Founder Membership:

- 1) Professor Mandke is a Co-Founder Member of Information Integrity Coalition, Chicago, IL, USA.

(T) National Working Group Participation:

- 1) By invitation participated as an Expert in the deliberations of the National Working Group on School Vocationalization, May, 1985.

(U) Consultancy:

- 1) In 1987, worked on Feasibility Report (in outline) as the basis for larger consultancy (with reference to New Education Policy on Education, 1986) as envisaged by the MHRD, GOI. The report was submitted to the MHRD in April, 1987.
- 2) From February 1988 to June 1988 worked on Systems Consultancy assignment for MHRD in respect of following areas:
 - a) Content and process of education.
 - b) Open Learning and Continuing Education.

- c) Teacher Improvement.
- d) Integrated plan of Action for HRD.
- e) Education-Work Linkage.

(V) Project Assignments:

- 1) From 1996-99, under the Leather Technology Mission of GOI, worked on IGNOU-CLRI Project and implemented Tannery Worker Vocational Qualification (TWVQ) System for Skill Development at Tannery worker and supervisory levels. Between June 1998-May 1999, this competency development training methodology was successfully implemented for tanneries in Tamilnadu for a Tamil speaking learner batch which included illiterate workers as also women workers.
- 2) From 1996-99, in collaboration with CIDC, New Delhi, implemented Construction Worker Vocational Qualification (CWVQ) Project for Skill Development at Construction worker and supervisory levels.
- 3) All through his professional career, Prof. Mandke has extensively implemented instructional material development projects in Engineering & Technology at tertiary level as also at Competency program level.

(W) Honor:

- 1) Included in Volume Five of "The International Who's Who of Intellectuals", International Biographical Center, London, Eddison Press Ltd., 1983, page 609. Below is given an extract from the above biographical sketch of Prof. V. V. Mandke.

"His professional experience in the discipline of Electrical Engineering has been in areas of self-optimizing systems, mathematical control theory, stochastic control and estimation, systems modeling and simulation of large scale systems...At BITS, his chief contribution is in implementing the educational reform of 'university-industry collaboration'....Dr. Mandke has been directly responsible for evolving the first degree level BITS Practice School program, which scans all the disciplines of Engineering, Science and Liberal Arts, and which (during an academic year) accommodates approximately 800 students and 75 faculty members, attending the Practice school education, conducted at about 75 industries located across the country...Since 1979, Dr. Mandke has (also) evolved and implemented the collaborative postgraduate engineering programs of the BITS which are entirely conducted in industrial settings..."

- 2) Member of the Jury for Unitech's Excellence in Information Integrity Awards in 1997 and 1999.
- 3) Awarded "DNYNADEEP PURASKAR 2004" of Yashawantrao Chauhan Maharashtra Open University, Nasik, Maharashtra, India.

(X) Fields of Interest:

- 1) Research and knowledge development in the area of Information Integrity.
- 2) Convergence studies in Human cognition.
- 3) Self-optimizing systems, mathematical control theory, stochastic control and estimation, systems modeling and simulation of large scale systems.

- 4) Education with particular reference to Linking education-work.
- 5) Science and Society.
- 6) Designing and implementing for innovation.

0-0-0-0-0