Chapter - III

AGRICULTURAL EDUCATION IN INDIA
AND PROFILE OF THE INSTITUTIONS
UNDER THE STUDY

3.1 Introduction

3.2 Agricultural Science Colleges in Karnataka: An overview

3.3 State-of-the Art of College Libraries of Agricultural Sciences in Karnataka

3.4 Conclusion

References
3.1 Introduction

Earlier agriculture was taught as one of the subjects in the traditional universities and the agriculture graduate thus produced, formed the core of the administrative set-up of agricultural departments. Organized instruction in agriculture at the University level was introduced in the beginning of 20\textsuperscript{th} century, when five agricultural colleges were established in 1907.

The Government of India appointed a Royal Commission on Agriculture in 1926 headed by Lord Linlithgow to examine the conditions of agriculture and rural economy in India. The Commission proposed to establish Imperial Council of Agricultural Research with the primary function of agricultural research throughout India. The Government of India accepted this recommendation and set up the Imperial Council of Agricultural Research in May 1929. Later, this was renamed as Indian Council of Agricultural Research (ICAR).

Agriculture education in India in general, Karnataka in particular before independence suffered from a serious setback due to political condition, rest prevailed at that time. Although the then British Government, set up many commissions and committees for improving of agriculture and agricultural education in India yet they could not reach the grass root level. It was after independence the government of India took a series of initiatives and one of the land marks was the establishment of ICAR.

The journey of agricultural education and research in India started with the establishment of only 17 agricultural colleges, three veterinary colleges and one
agricultural engineering college in 1950. The national agricultural education System (NAES) under the control of Indian Council of Agricultural Research (ICAR), New Delhi is the largest network of agricultural education and research in the world. It comprises of State Agricultural Universities (SAUs) and their constituent colleges and the research institutes partially funded and controlled by Indian Council of Agricultural Research (ICAR), which impart education, research and extension in all fields of agriculture science and technology and their allied fields.

3.2 Agricultural Science Colleges in Karnataka: An overview

Agriculture Education began in Karnataka as a small agricultural research farm in 1899 on 30 acres of land donated by Her Excellency Maharani Kempa Nanjammanne Vani Vilasa Sannidhiyavaru, the Regent of Mysore and appointed Dr. Lehmann, a German Scientist to initiate research on soil crop response with a Laboratory in the Directorate of Agriculture. Later under the initiative of the Dewan of Mysore Sir M. Vishweshwaraiah, the Mysore Agriculture Residential School was established in 1913 at Hebbal which offered Licentiate in Agriculture and later offered a diploma programme in agriculture during 1920. The School was upgraded to Agriculture College in 1946 which offered four year degree programs in Agriculture. The Government of Mysore headed by Sri. S. Nijalingappa, the then Chief Minister, established the University of Agricultural Sciences on the pattern of Land Grant College system of UAS and the University of Agricultural Sciences Act No. 22 was passed in Legislative Assembly in 1963. Dr. Zakir Hussain, the Vice President of India inaugurated the University on 21st August 1964 in Bangalore.

In the following pages the profiles of the sixteen agricultural colleges taken up for this research work has been describe. Table shows the name of the colleges and its location.
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Fig. 3.1 Karnataka State Map Locating Agricultural Science Colleges
3.2.1 College of Agriculture, Bengaluru

University of Agricultural Sciences Bangalore, is a premier institution of agricultural education and research in the country.

The UAS came into existence on October 1, 1965 with the transfer of Colleges of Agriculture at Hebbal (Bangalore) and Dharwad, the Veterinary College at Hebbal and 35 Research stations located in different parts of the state along with 45 ICAR schemes which were with the State Department of Agriculture, Horticulture, Animal Husbandry and Fisheries, under its control the full fledged University of Agricultural Sciences Bangalore came into existence on 1st October 1965 with the entire State under its jurisdiction. Later on, a Marine Product Processing Training Centre (MPPTC) at Mangalore was also transferred to the university. The university established Fisheries College at Mangalore in 1969 to offer a degree programme in fishery sciences and the Agricultural Engineering Institute at Raichur in the same year to offer a three year diploma course in Agricultural Engineering. The Home Science College was started to impart education on rural based home science at Dharwad campus in the year 1974, besides establishing a College of Basic Sciences and Humanities and College of Post-Graduate Studies at Hebbal. In 1986, the erstwhile, UAS, Bangalore was bifurcated into two universities by establishing one more Agricultural University at Dharwad. Further, in 2004 Animal and Horticulture Sciences were bifurcated from agricultural sciences and transferred to Karnataka veterinary Animal and Fishery Sciences University, Bidar in 2004 and University of Horticulture Sciences Bagalkot in 2010 in order to provide greater importance in the emerging sectors like Animal Husbandry and Horticulture.

University of Agriculture and Horticulture Sciences, Shimoga was established in the year 2013 to address the research and educational issues of Malnad and Coastal
zones of Karnataka. Presently UAS, Bangalore has jurisdiction over ten southern Districts of Karnataka.

Objectives

a) Imparting education towards development of quality human resource in different branches of agriculture and horticulture;

b) Furthering the advancement of learning and conducting research in agriculture, horticulture and other allied sciences;

c) Undertaking extension education of such science and technologies, specially for the rural people of the State;

d) Promoting partnership and linkages with national and international educational, research institutions and industries.

This college was started in the year 1946 as a constituent to University of Mysore, later became a constituent college of UAS, Bangalore in 1964. This College is the torchbearer for all the teaching programmes under Faculty of Agriculture of UAS, Bangalore. The college started P.G programmes in 5 disciplines in 1966, which have presently grown to 23 Master’s and 13 Ph.D. Degree Programmes.

3.2.2 College of Agriculture, Mandya

This college is located 10 km away from Mandya Town in Karnataka State on Mandya-Melkote road, which is popularly known as Vishweshwaraiah Canal (V.C) Farm. The Campus is situated at 19° N latitude and 76°E, longitude and at an altitude of 695 m above MSL.

The College of Agriculture, V.C. Farm, Mandya which started functioning during the year 1991-92 has successfully completed 23 years of fruitful academic accomplishment. It was started as part of ruralisation of Agricultural education as
envisaged by Govt. of Karnataka, in offering B.Sc.(Agri.) degree programme. It is located in Vishvesharaiah Canal Farm Campus popularly known as V.C. Farm Campus under the University of Agricultural Sciences, Bangalore. It is located at about 10 km away from Mandya city on Mandya-Melukote Road. Since the inception of the college, 771 students from 17 batches have graduated from this college.

3.2.3 College of Agriculture, Shimoga

The University of Agricultural and Horticultural Sciences, Shimoga (UA&HS,S) is the first integrated university in the state of Karnataka, having both agricultural and horticultural sciences under its purview. It was established under the Karnataka Act no. 38 of 2012, carved out by separating seven districts from the jurisdictional area of University of Agricultural Sciences, Bangalore and including all the institutes coming under University of Horticultural Sciences, Bagalkot, in these seven districts. The jurisdictional area of UA&HS, Shimoga covers the districts of Shimoga, Chickamaglur, Udupi, Dakshina Kannada, Kodagu, Davanagere and Chitradurga. The college of Agriculture was established in the year 1990. It imparts undergraduate education in agriculture leading to B.Sc.(Agri) degree programme and post-graduate degree programmes in the subjects of Agronomy, Genetics and Plant Breeding, Soil Science and Agricultural Chemistry, Agricultural Entomology and Plant Pathology. One year Diploma (only Sundays) in Agricultural Extension Services to Input Dealers (DAESI) is also offered to input dealers.

3.2.4 Agricultural college, Hassan

Ruralizing Agricultural Education for developing trained manpower in the areas of teaching, research and extension in the fields of Agriculture, Agriculture Biotechnology and Food Science and Technology, it was established in 1996 at UAS Bangalore and later the campus shifted to Hassan in 2006.
As a part of government policy to ruralize agricultural education in the country, a new Agricultural College was started in 1996 for Hassan district. Initially the classes were conducted at GKVK campus due to non-availability of infrastructure at Hassan. Subsequently the new campus at Karekere, Hassan was established in 2006. The Campus has 184.25 acres of land opposite to Agricultural Research Station and Biofuel Park, Madenur which is located at 21 kms from Hassan on Hassan-Bangalore Highway (NH-48). Three degree programs viz. B.Sc. (Agri.), B.Sc. (Agri. Biotech.) and B.Tech. (Food Sci. & Tech.) are being offered at this campus.

3.2.5 College of Horticulture, Mudigere

The College of Horticulture was established during the year 1991 at Mudigere (Chickmagalur District) by the University of Agricultural Sciences, Bangalore to impart knowledge and experience in various fields of Horticulture and allied subjects and to strengthen the research and developmental activities in Horticulture in the state. Imparting undergraduate degree programme in B.Sc (Hort) and Post Graduate programmes in the subjects of Olericulture, Floriculture, Plantation Crops and Post-Harvest Technology.

3.2.6 College of Sericulture, Chintamani

The College of Sericulture was established at Chintamani, Chickballapur District during 1995 with the objectives of serving the districts (Chickballapur and Kolar) having maximum potential for Sericultural development and ruralization of Sericultural and Agricultural Education. In 1995 B.Sc. (Ser) Degree Program was started in 2007, B.Sc. (Agri.) degree programme was added due to increasing demand from the public and the facilities available on the campus. This college is a unique Institution in imparting Agricultural Education in general and Sericultural Education
in particular (Only college in whole of Asia to offer Sericultural degree of four years duration). The College of Sericulture, Chintamani is presently offering B.Sc. (Sericulture) and B.Sc. (Agriculture) degree programmes for duration of four years (eight semesters).

3.2.7 College of Forestry, Ponnampet

Established in the year 1995, was originally functioning at GKVK, Bangalore up to the year 1994, and then shifted to the present campus at Ponnampet. It has under graduate degree programme in B.F.Sc and Post graduate degree programme in Forest Resource Management.

3.2.8 College of Agriculture and College of Rural Home Science, Dharawad

The college of Agriculture Dharwad was established in the year 1947, to provide professional service to the farming community in the 12 northern districts of the Karnataka state in modernizing agriculture. The college was affiliated to Bombay University soon after its formation and then to Karnataka University in 1950 when the said university was established in the area. It became the constituent college of the UAS, Bangalore in 1965 and then came under the preview of UAS, Dharwad in 1986.

3.2.9 College of Agriculture, Bijapur

College of Agriculture, Bijapur is one of the constituent colleges of University of Agricultural Sciences, Dharwad. The important mandate of the college is imparting practical training to the students in agriculture and allied fields so as to help the farming community. There are 18 departments in which well qualified faculty impart both theoretical and practical knowledge to students. Students are given land for cultivation on their own to learn about farming. Secondly, the counseling system operates effectively where in the students, who stay away from home and parents are
looked after to achieve academic excellence and all around development. Thirdly, the
tours both, state and all India are made part of the academic activity in which students
get a unique opportunity to visit different academic, research and historical
institutions and places in Karnataka and India and learn about different patterns of
education, research, crops, cropping systems, history and heritage. Fourth, under the
Rural Agricultural Work Experience (RAWE), students for imparted rigorous practical
training under field conditions in the interior villages and acquainting with various
institutions for period of one semester. Hence, forth it would for a period of six months.
Fifth, opportunities are provided to the students for all round development through their
involvement in NSS which is recently made part of the curriculum. Sixth, enough
opportunities are provided to the students to express their extra-curricular and sports
talents by organizing intra-mural and UAS inter-collegiate competitions.

3.2.10 College of Agriculture, Raichur

The College of Agriculture, Raichur is situated in the North-Eastern dry zone
(Zone-2) of Karnataka located between 16° 15´N latitude and 77° 20´E longitude at
an elevation of 389 meters above mean sea level. The college was established in the
farm of Agricultural Research Station, which was started during 1932 by the then
Nizam Government, Hyderabad with a mandate to carry out research work on dry
land agriculture. With the establishment of State Agriculture University in Karnataka
in 1964, the research station was elevated to Regional Agricultural Research Station
with a jurisdiction of five districts of North Karnataka. The Agriculture College at
Raichur was started in 1984 with an intake capacity of 30 students per year with its
functioning in the premises of Regional Agriculture Research Station and Agriculture
Engineering Institute and thereafter shifted to new Agriculture College building in
1989. The intake capacity has been increased in a phased manner to 70 students at
undergraduate level. The Post-graduate programme leading to Master´s degree in six departments was started in 1995 and two departments in 2008 with an intake capacity of 5 students for each department every year.

3.2.11 College of Agricultural Engineering, Raichur

The only Agricultural Engineering College in the state, was started as the Agricultural Engineering Institute in 1969 offering the Diploma course in Agricultural Engineering. The College of Agricultural Engineering was established in the year 1987 to offer the four year B-Tech (Ag.Engg) programme. The college also offers M.Tech (Ag.Engg) programmes with specialization in Soil and Water Engineering, Farm Power and Machinery and Agriculture. Processing and Food Engineering. Four AICRPs are being operated in the fields of Utilization of Animal Energy Farm implements and machinery, Renewable Energy Sources and Post-Harvest Technology.

3.2.12 College of Agriculture, Bheemarayanagudi, Gulbarga

The College of Agriculture, Bheemarayanagudi established in 2001 under erstwhile UAS Dharwad and presently under UAS Raichur, promises to be one of the potential agricultural colleges catering to the needs of Hyderabad-Karnataka region which is the rice and pulse bowl of the state and country. Two major irrigation projects (Tungabadra and Upper Krishna) are located in this region with problems associated with irrigation agriculture. The region is also one of the most socio-economically underdeveloped regions of the state. The vision of the institute is to be a premier agricultural institute encompassing excellence in academics, research and extension. They try to impart quality education in agriculture and related branches, provide leadership in teaching, research and extension related to agriculture and allied
sciences, attract qualified and talented manpower to undertake advancement of learning and research in agricultural sciences, develop and disseminate suitable end use technologies to solve farmers’ problems and improve agricultural productivity. The College offers a 4 year in-house Bachelor of Science in Agriculture, B.Sc. (Agri.) degree programme for students.

3.2.13 Kittur Rani Channamma College of Horticulture, Arabhavi, Belgaum

The Kittur Rani Channamma College of Horticulture was established in the year 1994-95 and is located in Arabhavi of Belagavi district of Karnataka. The college offers B.Sc., M.Sc., and Ph.D programmes.

3.2.14 College of Forestry, Sirsi

The College of Forestry began with a Degree Programme in the year 1985 has completed 29 years of its graceful existence. The College has celebrated its Silver Jubilee and it is the time to retrospect at the historic growth and development of various disciplines which constitute an integral part of the College, students’ achievements, research highlights etc., which have not only broadened our view on academic fronts but also have helped in serving the society.

3.2.15 College of Horticulture, Bidar

College of Horticulture, Bidar is a part of University of Horticultural Sciences. College offers Master of Science (Horticulture) and Doctor of Philosophy in Horticulture, Post Graduate diploma in these specializations wine technology, precision farming and high-tech horticulture, post harvest processing & value addition, production of bio-agents, Certificate courses in nursery management, seed production, plant protection, post harvest processing & value addition, flower cultivation and arrangements courses.
### 3.3 Art of College of Agricultural Sciences in Karnataka

#### State – of – the - art of Libraries of Agricultural Colleges in Karnataka

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3.4 Conclusion

In the foregoing pages an overview agricultural college libraries in Karnataka has been presented. In the next chapter the data collected from the faculty and students in 16 agricultural science colleges in Karnataka on their information use pattern have been analyzed.
References:
University of Agricultural Sciences, Dharwad, Karnataka State, INDIA. (n.d.). *University of Agricultural Sciences, Dharwad, Karnataka State, INDIA.. Retrieved October 6, 2013, from http://www.uasd.edu/