

Jute Technology



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This is part of the series “Unusual careers”.
Lesser known careers are being researched and
compiled by Mrs. Shobha Mathur.

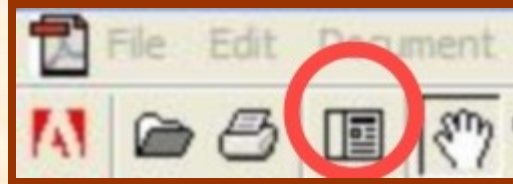
This document provides valid links to various
courses. All the links are working and secure as
on June 2011.

For any suggestion, amendment, criticism or
praise, please contact me at
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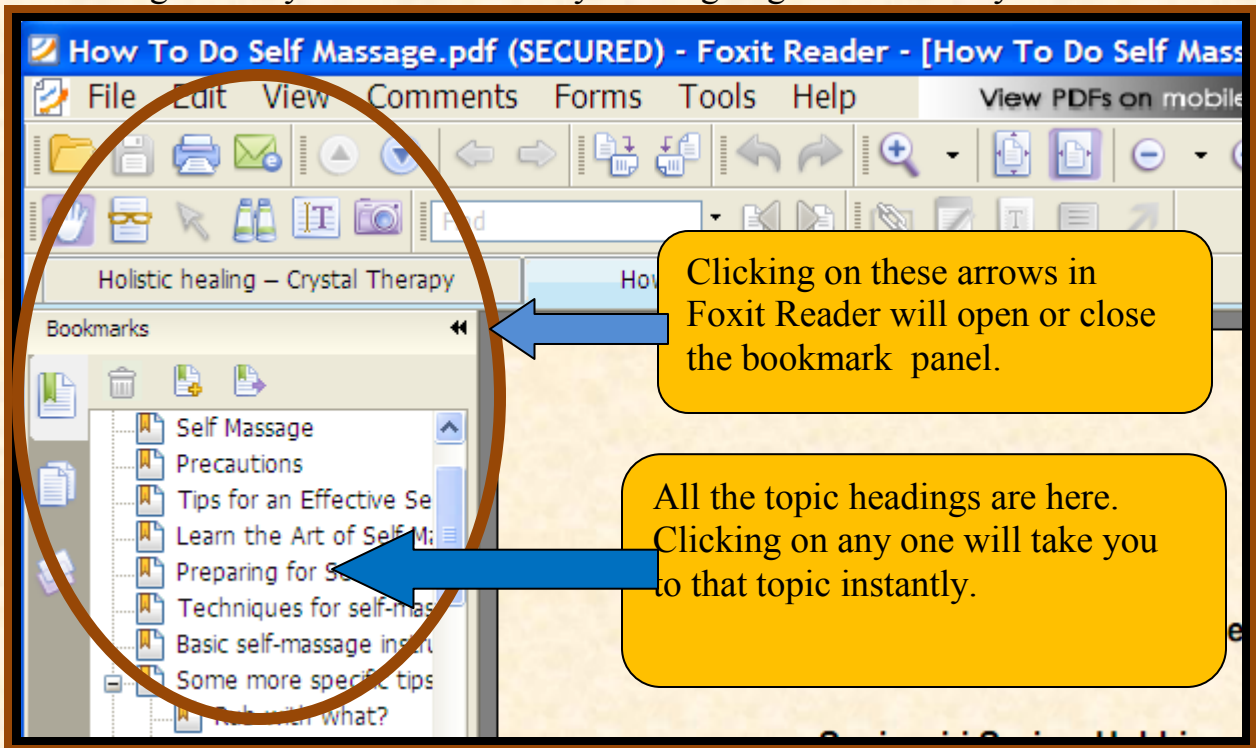
Unusual
Careers

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Introduction

Jute is a natural fibre with golden and silky shine and also called The Golden Fibre. It comes out of Jute plants.

Initially it was used to manufacture sackcloth and Hessian. Now, with the advancement of technology, Jute fibres are being used not only for sacks, but for many stylish textile products also.

Today jute is used for twine, ropes, curtains, chair coverings, carpets, area rugs, Hessian cloth, backing for linoleum, canvas material for bags and shoes, upholstery, and paper,

The raw material is processed in Mills. In India the business of jute is concentrated in Bengal and most of the Jute mills are situated there.

The only Institute of Jute Technology is also situated there.

Jute technology is learning about Jute plant and the processing. It is a very specialized field, and there is actually only one Institute in Calcutta offering B.Tech. and M. Tech courses.

The advantage is that anyone qualified has a ready job market.

The institute has a 100 % placement record.

This information is correct as on February2010.

General Information about Jute**Jute producing countries**

Jute is a rain-fed crop. The top Ten Jute Producers are:

- | | |
|------------------------------|--------------|
| 1.India | 6.Myanmar |
| 2.Bangladesh | 7.Brazil |
| 3.People's Republic of China | 8.Uzbekistan |
| 4.Côte d'Ivoire | 9.Nepal |
| 5.Thailand | 10. Vietnam |

The states which are eminent for jute growing in India are: West Bengal, Bihar, Assam, Meghalaya, Tripura, Orissa, and Andhra Pradesh.

While the skin of the stem is used for making twine and fabric, its leaves are food source in many places.

Qualities of jute

It is the cheapest vegetable fibre made from the skin of the plant's stem.

It is second only to cotton in terms of usage, global consumption, production, and availability.

Jute fibre is eco friendly as it is 100% bio-degradable and recyclable.

Jute has good insulating and antistatic properties, low thermal conductivity and a moderate moisture take.

It is one of the most versatile natural fibres that is used in raw materials for packaging, textiles, non-textile, construction, and agricultural sectors. It helps to make best quality industrial yarn, fabric, net, and sacks.

Jute can be easily blended with other fibres, both synthetic and natural, and accepts dyes. Though jute is being replaced by cheaper synthetic materials in many uses, it's biodegradable nature is suitable for the storage of food materials, where synthetics would be unsuitable.

Types of Jute

Jute products generally fall into four classes of manufacture:

HESSIAN or BURLAP: A plain woven fabric of 5 to 12 ozs. a yard, made of good quality jute yarn. It is used for a wide range of applications as in cloth form and in the form of bags.

SACKING: It is also known as "heavy goods," made from lower grades of fiber, loosely woven cloth, in plain or twill weave, weighing from 12-20 ozs. per yard of different widths. It is used for bags of all types.

CANVAS - The finest jute product, closely woven of the best grades of fiber widely used in India for protection from the weather.

JUTE YARN and TWINE - Most of the single strand jute yarn produced is consumed by the mills themselves in fabric and twine manufacture. Jute twine in varying weights and thickness is, used extensively both in India and abroad for sewing, tying, and for a variety of industrial applications such as packing pipe joints, cable binding, etc.



Jute Fibre

This is how Jute looks



Jute Fields



Jute leaves



Jute Flower

Products of jute



Twine



Gunny Bags



New textiles

Some Additional Interesting facts

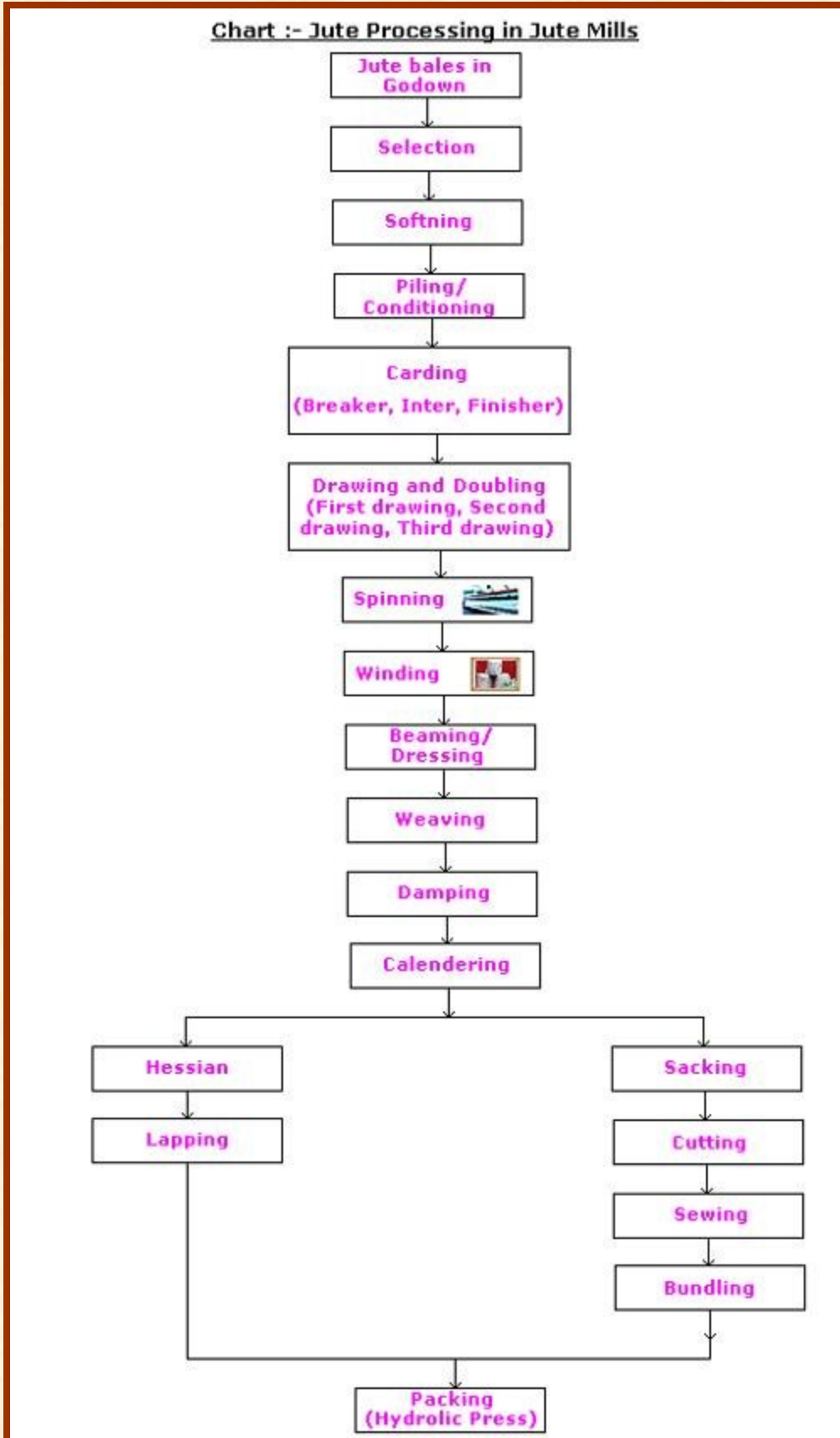
Steps in Making Jute

There are many steps in making jute fibre from the plant which the course addresses.

From procuring the material, selecting and processing , there are 12 – 16 steps.

The course covers all the aspects.

Here is the Flow Chart of processing :



Institute and courses :

The only institute to train people and award degrees in Jute Technology is **Institute of Jute Technology in Kolkata**, duly affiliated with University of Calcutta.

At present, this Institute is conducting

Program	Course detail and other info.	Eligibility
Program 1	: 8-Semester B. Tech. in Jute & Fibre Technology	Class XII (10+2) with Phys., Chem., Math., Eng., & any other 5th Subject or equivalent
Program 2	: 8-Semester B. Tech. in Jute Technology	Class XII (10+2) with Phys., Chem., Math., Eng., & any other 5th Subject or equivalent
Approved Intake For each program	: 20 Intakes (15% Foreign Students & 10% Lateral Entries)	
Fees charges (per annum) in Rs.	: For both the Courses Rs. 6,750/- per Semester and Rs. 100/- for Prospectus and Admission Form	
Pass percentage during the last 5 years	: 100% for Final year	
Teacher/Student Ratio	: 1 : 10	
Program 3	4-semester M.Tech in Textile Technology	Bachelor Degree in Jute and Fibre

Program	Course detail and other info.	Eligibility
	(Technical Textile)	Technolgy or Textile Technology or equivalent
Program 4	3 month's supervisor's course, Spinning and Weaving	Madhyamik with min. one year experience in Jute mill and Allied organisation

Contact Person: Prof. Prabir Ray (Principal)

Reservations:

22 per cent of seats are reserved for Scheduled Castes and 6 per cent for Scheduled Tribes as per the rules of the Government of West Bengal.

A few additional seats may be made available for the students from the jute-growing states other than West Bengal.

The Department of Education, Ministry of Human Resource Development, Govt. of India has been approached to finalize the modalities of admission for such students.

Placement Facilities: 100% placement for students till date.

Address

Institute of Jute Technology
 35, Ballygunge Circular Road
 Kolkata - 700 019
 West Bengal (INDIA)
 Phone : 2461-5444/5632, 2461-5477/5326
 Fax : 033-2461-5632
 E-mail : ijt@cal2.vsnl.net.in
 web: <http://www.ijtindia.org>

Rules and Guidelines for Admission to 4-year B. Tech.in Jute & Fibre Technology

a) Qualification : Applicants should be Indian nationals, and have passed/appeared/ at the 10+2 Higher Secondary Examination of the West Bengal Board of Secondary Education or equivalent examination of a recognized University or of a Board with Physics, Chemistry, Mathematics, English and any other fifth subject or any other qualification recognized by the University of Calcutta.

b) Age : 21 years of age on the 1st of August of the year of admission (relaxations up to Three years for Scheduled Caste/Scheduled Tribe candidates).

c) Eligibility : Candidates are required to appear in a written test conducted by the West Bengal Board of Examination for Admission to Engineering, Medical and Technological Degree Colleges in Physics, Chemistry, Mathematics (each paper of 3 hours duration).

Candidates who reach qualifying standard at the written test will be offered admission by the Central Selection Committee in order of merit, subject to medical fitness.

d) Application : Application for admission should be made in the prescribed form of the Institute available during counseling by Central Selection Committee. No application will be accepted by the Institute unless it bears the JEE ENROLMENT and REGISTRATION NUMBER allotted by the Central Selection Committee for Admission to Engineering and Technological Degree Colleges of West Bengal.

Applicants are requested to look in to newspaper notification issued by Joint Entrance Board, Govt. of W.B. forms are distributed in the month of December (tentatively) an qualifying examination are held in the month of April.

e) Admission : The Selected candidates will have to pay their fees on the dates mentioned in the admission letter. The Governing Council of the Institute may change the fees from time to time.

Students are required to provide themselves with necessary instruments for engineering drawing, books, yarns, cloths, etc. required in their practical classes and project work.

Hostels are not provided.

Low skilled training to make products from jute

Directorate General of Employment & Training, Ministry of Labour & Employment, Government of India has developed Modular employable skills (MES) Govt. of India project regarding making products from processed Jute.

But I could not find where these are taught.

There is a Huge national list of Training Providers, but all of them do not provide all training.

<http://dget.nic.in/mes/index.htm>

JTD JUTE DIVERSIFIED PRODUCTS SECTOR

Minimum age – 14 Years

Serial Number	MES Code	Course	Minimum Education	Duration of Training (Hours)	Test Fee (Rs)
608.	JTD101	Jute braided Product Maker	5 th	160	800/-
609.	JTD102	Jute Footwears Maker	5th	160	800/-

Serial Number	MES Code	Course	Minimum Education	Duration of Training (Hours)	Test Fee (Rs)
610.	JTD103	Weaver	5th	200	800/-
611.	JTD104	Dyer	5th	90	800/-
612.	JTD205	Designer cum Maker of Fabric Bags	5th	160	800/-
613.	JTD206	Designer cum Maker Decorative items	5th	160	800/-

Address

Head Office

Indian Jute Industries Research Association

17, Taratala Road,

Kolkata - 700088,

W.B.,

India

Phone: 91 33 2401 4615/4617/4619

Phone: 91 33 66269200 | 66269229 | 66269241

Fax : 91 33 2401- 4298/4621

Email : ijiraweb@ijira.org | info@ijira.org

Website: www.ijira.org

Regional Office

IJIRA Regional Centre - Guwahati,

C/o. Meenakshi Bhavan, 3rd Floor, 21, Rajgarh Road, [Above NPC Office] Guwahati – 781 007 , Assam

Phone : (0361) 2460 293

TeleFax : (0361) 2460 293

Email: nerc@ijira.org

Agencies and councils for Jute

There are several agencies and corporation to further the cause of Jute – at all levels – farming, manufacturing of jute, and making things out of jute. New researches are being conducted all the time.

You may like to visit these sites and inquire further regarding your interest.

The Jute Corporation of India Ltd. (JCI)

The Jute Corporation of India Ltd. (JCI) was set up in 1971 as an official agency by the Government of India with the aim to provide minimum support price (MSP) to the jute cultivators and also work as a helping hand in the raw jute sector.

<http://www.jci.gov.in/>

JMDC, the Jute Manufactures Development Council

It is the national agency for promotion of Indian Jute. Created by an Act of Indian Parliament in 1983, it is chaired by the Secretary, Government of India, Ministry of Textiles.

The Council's prime objective is to provide better marketing of jute products, although it addresses itself to multi-dimensional activities.

<http://www.jmdcindia.com/html/about.html>

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<http://www.jute.com/>

Indian Jute Industries' Research Association (IJIRA)

Established in 1937, the first co-operative R & D organization rendering services to the Indian Jute Industry and Government Agencies who are promoting Indian Jute in export and domestic market.

<http://www.ijira.org/>

Address**Head Office****Indian Jute Industries Research Association**

17, Taratala Road,

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Fax : 91 33 2401- 4298/4621

Email : ijiraweb@ijira.org | info@ijira.org

Website: www.ijira.org

The International Jute Study Group (IJSG)

The International Jute Study Group (IJSG) is an intergovernmental body set up under the aegis of UNCTAD to function as the International Commodity Body (ICB) for Jute, Kenaf and other Allied Fibres.

<http://www.jute.org/index1.htm>

Tip – sometime if the link does not work, please copy and paste in the browser.

**Central Research Institute for Jute and Allied Fibres,
Barrackpore**

All India Co-ordinated Research Projects on Jute & Allied Fibres (AICRP on JAF) now functioning as All India Network Projects on Jute and Allied Fibres (AINP on JAF). CRIJAF is the apex institute in the country to consider researches on J&AF for developing production technologies to increase the productivity in a suitable manner.

Central Research Institute for Jute & Allied Fibres (ICAR)

Barrackpore,

Kolkata 700120,

West Bengal (India)

Phone: 033-2535-6121/6122

Fax: 033-25350415

Mail:crijaf@wb.nic.in