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KANDUNGAN

FOKUS:

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PUSAT MAKLUMAT SERANTAU MENGENAI PENGURUSAN DAN PENGGUNAAN SISA

Hafizah Hassan

Pengenalan

Regional Information Centre on the Management and Utilization of Wastes (MUWIC) telah ditubuhkan di Perpustakaan Universiti Pertanian Malaysia (UPM) yang bertujuan untuk mengendalikannya dan menyebarkan maklumat mengenai pengurusan dan penggunaan sisa di rantau Asia dan Pasifik. Penubuhan pusat maklumat ini ialah hasil daripada kesedaran perlunya satu sistem dokumentasi, dan penyebaran maklumat dalam bidang pengurusan dan penggunaan sisa oleh para penyelidik bidang berkenaan di rantau ini.

Bertempat di perpustakaan UPM, MUWIC adalah projek bersama antara perpustakaan dan Fakulti Kejuruteraan UPM, dan dijangka akan bekerjasama rapat dengan UNESCO/FEISEAP Regional Network for the Management and Utilization of wastes in Southeast Asia and the Pacific, yang masa ini menempatkan Urusetianya di Fakulti Kejuruteraan UPM.

Latar Belakang

UNESCO telah menubuhkan satu rangkaian serantau yang diberi nama Regional Network for the Utilization of Urban and Rural Wastes dalam tahun 1979. Namanya kemudian ditukar kepada Regional Network for the Management and Utilization of Wastes untuk menggambarkan kegiatannya yang lebih luas. Peranan wakil dari tiap negeri dalam rangkaian ini ialah untuk membawa institusi dan individu yang berminat dalam bidang pengurusan dan penggunaan sisa bersama melalui seminar, simposium dan sebagainya. Wakil dan institusi-institusi juga mengumpulkan maklumat untuk penerbitan surat berita.

Satu daripada masalah yang dihadapi oleh Urusetia Rangkaian ini ialah dokumentasi dan penyebaran maklumat dalam bidang berkenaan. Walaupun banyak penyelidikan dalam bidang ini dijalankan di rantau ini, tetapi ia sering tersisih, menghasilkan penduaan usaha. Keperluan untuk berkongsi maklumat adalah jelas. Satu pusat maklumat khusus untuk mempertingkatkan akses kepada maklumat berkenaan di rantau ini adalah perlu.

Satu Seminar Kebangsaan Mengenai Pengurusan dan Penggunaan Sisa Industri yang diadakan di Universiti Pertanian Malaysia pada tahun 1984 telah mengesyorkan supaya satu pusat maklumat mengenai pengurusan dan penggunaan sisa ditubuhkan di Universiti Pertanian Malaysia, dengan kerjasama Perpustakaan. Cadangan ini kemudian telah dibentangkan dalam mesyuarat Rangkaian

MPM ialah sebuah buletin suku tahunan yang diterbitkan oleh Perpustakaan Universiti Pertanian Malaysia. Pandangan dan pendapat penyumbang tidak semestinya mencerminkan pandangan atau pendapat jemaah pengarang. Buletin ini diberi secara percuma atas permintaan. Sila alamatkan semua surat menyurat/pertanyaan kepada: Ketua Pengarang, Buletin Maklumat Pertanian Malaysia, Perpustakaan, Universiti Pertanian Malaysia, 43400 UPM Serdang, Selangor Darul Ehsan.

Penasihat: Syed Salim Agha; Ketua Pengarang: Mohd. Ariff Ariffin

Pengarang-pengarang: Asliah Abu; Badilah Saad; Hawa Abdul Majid; Hafizah Hassan

Penyunting: Jama'yah Zakaria

Serantau di Singapura dalam bulan Oktober, 1984. Perbincangan seterusnya diadakan di Bangkok dalam tahun 1985. Kedua-dua mesyuarat itu telah bersetuju dengan cadangan berkenaan.

International Development Research Centre telah menerima syor penubuhan Pusat Maklumat berkenaan, dan telah bersetuju untuk membiayai operasinya selama tiga tahun yang pertama. Secara rasmi Pusat Maklumat Serantau Mengenai Pengurusan dan Penggunaan Sisa ini telah bermula pada 1 hb September, 1986.

Matlamat MUWIC

Objektif utama Pusat Maklumat Serantau Mengenai Pengurusan dan Penggunaan Sisa ini ialah untuk mengesan, memperoleh, mengumpul dan menyebarkan maklumat dalam bidang pengurusan dan penggunaan sisa, untuk menggalakkan aliran dan penukaran maklumat dalam bidang berkenaan. MUWIC bermatlamat untuk memberi perkhidmatan maklumat dan dokumentasi kepada pengguna-pengguna di rantau Asia Tenggara dan Pasifik, terutamanya negara-negara membangun yang menjadi ahli Regional Network for the Management and Utilization of Wastes.

Adalah diharapkan dengan adanya usaha untuk mengawasi dan mengendalikannya maklumat dalam bidang ini, bahan sisa yang banyak terbuang sekarang dapat digunakan dengan lebih berkesan. Selain membantu mengurangkan masalah persekitaran, sisa-sisa ini juga dapat mendatangkan hasil ekonomi.

Bidang Kegiatan

MUWIC akan menumpukan perhatian kepada sisa pertanian dan sisa industri pertanian, sekurang-kurangnya dalam masa tiga tahun yang pertama, kerana kegiatan pertanian di Rantau Asia Tenggara dan Pasifik penting.

Hasil daripada kegiatan pertanian, maka wujudlah bahan sisa seperti sisa ternakan, sisa tanaman dan perhutanan, sisa bahan kimia pertanian, sisa daripada aktiviti memproses ternakan dan tanaman di ladang atau kilang, dan juga air buangan dari loji memproses makanan.

Aspek lain yang diberi perhatian oleh MUWIC adalah kitaran semula sumber tenaga, dan teknologi pengurusan dan penggunaan sisa. Dalam menimbangkan teknologi penggunaan sisa, keutamaan adalah kepada kegunaan bahan berkenaan, untuk dijadikan sumber tenaga, makanan ternakan, bahan binaan, bahan kimia dan baja.

Aspek-aspek lain pengurusan dan penggunaan sisa seperti ekonomi, sosial, perundangan dan perancangan akan dirangkumi jika ada keperluan.

Kegiatan dan Projek

Dalam usaha untuk mencapai objektifnya MUWIC telah merancang beberapa projek seperti berikut:-

1. Membina pangkalan data berkomputer yang mengandungi maklumat mengenai pengurusan dan penggunaan sisa yang dikeluarkan di Rantau Asia Tenggara dan Pasifik dan juga maklumat-maklumat lain yang berkaitan.
2. Mengeluarkan panduan penyelidikan dan institusi yang terlibat dalam bidang pengurusan dan penggunaan sisa di Rantau Asia Tenggara dan Pasifik.
3. Mengeluarkan buku sumber.
4. Mengeluarkan "consolidated information products" dan "information packages" mengenai perkara semasa di rantau ini.
5. Menyusun bibliografi khusus.
6. Memberi perkhidmatan rujukan dan kesedaran kini.
7. Menyediakan penyerahan dokumen.
8. Membina tesaurus: mengenai pengurusan dan Penggunaan sisa pertanian dan industri pertanian.

Pengguna

Pengguna utama MUWIC dijangka terdiri daripada para penyelidik dari universiti dan institusi-institusi dari Rantau Asia Tenggara dan Pasifik. Ini termasuklah negara-negara seperti Australia, Hong Kong, Indonesia, Korea, Malaysia, New Zealand, Papua New Guinea, Filipina, Singapura dan Thailand. Perkhidmatan juga akan diberi kepada golongan pengguna yang lain termasuk para pentadbir sektor awam dan swasta, pekerja pembangunan, dan juga petani. Untuk memberi perkhidmatan kepada pengguna-pengguna MUWIC perlu mengumpul maklumat yang dikeluarkan di rantau berkenaan. Di samping itu akses kepada maklumat berkaitan yang diterbitkan di luar rantau ini, juga diperlukan. Pihak individu dan institusi yang terlibat dalam bidang pengurusan dan penggunaan sisa adalah dialu-alukan berhubung dengan pusat maklumat ini, dan menggunakan perkhidmatannya. Cadangan dan pendapat juga dialu-alukan untuk membantu MUWIC mendapat maklumat balas mengenai keperluan pengguna-pengguna.

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Format AGRIS telah digunakan untuk mengindeks dan penyusunan bibliografi ini dibuat mengikut Pengkelasan AGRIS seperti di bawah ini.

Kod Perkara

A PERTANIAN AM (AGRICULTURE IN GENERAL)

A01 - Pertanian-aspek am (Agriculture-General aspects)

A50 - Penyelidikan pertanian (Research)

B GEOGRAFI DAN SEJARAH (GEOGRAPHY AND HISTORY)

B10 - Geografi (Geography)

B50 - Sejarah (History)

C PENDIDIKAN, PENGEMBANGAN DAN MAKLUMAT NASIHAT (EDUCATION, EXTENSION AND INFORMATION)

C10 - Pendidikan (Education)

C20 - Pengembangan (Extension)

C30 - Dokumentasi dan maklumat
(Documentation and information)

D PENTADBIRAN DAN PERUNDANGAN (ADMINISTRATION AND LEGISLATION)

D10 - Pentadbiran awam (Public administration)

D50 - Perundangan (Legislation)

E EKONOMI, PEMBANGUNAN DAN SOSIOLOGI DESA (ECONOMICS, DEVELOPMENT AND RURAL SOCIOLOGY)

E10 - Ekonomi dan polisi pertanian
(Agricultural economics and policies)

E11 - Ekonomi dan polisi tanah (Land economics
and policies)

E12 - Buruh dan pekerjaan (Labour and employment)

E13 - Pelaburan, kewangan dan kredit (Investment,
finance and credit)

E14 - Ekonomi dan polisi pembangunan
(Development economics and policies)

E16 - Ekonomi pengeluaran (production economics)

E20 - Penyusunan, pentadbiran dan pengurusan
perusahaan pertanian atau ladang (Organi-
zation, administration and management of
agricultural enterprises or farms)

E21 - Industri pertanian (Agro-industry)

E40 - Koperasi (Cooperatives)

E50 - Sosiologi desa (Rural sociology)

E51 - Penduduk desa (Rural population)

E70 - Niaga, pemasaran dan edaran (Trade,
marketing and distribution)

E71 - Niaga antarabangsa (International trade)

E72 - Niaga dalam negeri (Domestic trade)

E73 - Ekonomi pengguna (Consumer economics)

E80 - Ekonomi rumahtangga, industri dan kraf
(Home economics, industries and crafts)

F SAINS TUMBUHAN DAN PENGELUARAN (PLANT SCIENCE AND PRODUCTION)

F01 - Perusahaan tanaman (Crop husbandry)

F02 - Pembiakan tumbuhan (Plant propagation)

F03 - Pengeluaran biji benih (Seed production)

F04 - Membaja (Fertilizing)

F06 - Pengairan (Irrigation)

F07 - Penyuburan tanah (Soil cultivation)

F08 - Corak dan sistem penanaman (Cropping
patterns and systems)

F30 - Genetic dan pembiakbaikan tumbuhan (Plant
genetics and breeding)

F40 - Ekologi tumbuhan (Plant ecology)

F50 - Struktur tumbuhan (Plant structure)

F60 - Fisiologi dan biokimia tumbuhan (Plant
physiology and biochemistry)

F61 - Fisiologi tumbuhan - pemakanan (Plant
physiology - Nutrition)

F62 - Fisiologi tumbuhan - Pertumbuhan dan
perkembangan (Plant physiology - Growth
and development)

F63	- Fisiologi tumbuhan - pengeluaran (Plant physiology - Reproduction)	K11	- Kejuruteraan hutan (Forest engineering)
F70	- Taksonomi dan geografi tumbuhan (Plant taxonomy and geography)	K50	- Pemprosesan hasil hutan (Processing of forest products)
H	PERLINDUNGAN TUMBUHAN (PLANT PROTECTION)	K70	- Kerosakan dan perlindungan hutan (Forest injuries and protection)
H01	- Perlindungan tumbuhan - Aspek am (Protection of plants - general aspects)	L	SAINS PETERNAKAN, PENGELUARAN DAN PERLINDUNGAN)
H10	- Perosak tumbuhan (Pests of plants)	L01	- Ternakan (Animal husbandry)
H20	- Penyakit tumbuhan (Plant diseases)	L02	- Makanan ternakan (Animal feeding)
H50	- Pelbagai penyakit tumbuhan (Miscellaneous plant disorders)	L10	- Genetik dan pembiakbaikan ternakan (Animal genetics and breeding)
H60	- Rumpai dan pengawalan rumpai (Weeds and weed control)	L20	- Ekologi haiwan (Animal ecology)
J	TEKNOLOGI LEPAS PUNGUT/KUTIP HASIL/TUAI POSTHARVEST TECHNOLOGY)	L40	- Struktur haiwan (Animal structure)
J10	- Pengawasan, pengangkutan, storan dan perlindungan, hasil pertanian (Handling, transport, storage and protection of agricultural products)	L50	- Fisiologi dan biokimia haiwan (Animal physiology and biochemistry)
J11	- Pengawasan, pengangkutan, storan dan perlindungan hasil tumbuhan (Handling, transport, storage and protection of plant products)	L51	- Fisiologi haiwan - pemakanan (animal physiology - Nutrition)
J12	- Pengawasan, pengangkutan, storan dan perlindungan hasil hutan (Handling, transport, storage and protection of forest products)	L52	- Fisiologi haiwan - pertumbuhan dan perkembangan (Animal physiology - Growth and development)
J13	- Pengawasan, pengangkutan, storan dan perlindungan hasil ternakan (Handling, transport, storage and protection of animal products)	L53	- Fisiologi haiwan - pengeluaran (Animal physiology - reproduction)
J14	- Pengawasan, pengangkutan, storan dan perlindungan perikanan dan hasil akuakultur (Handling, transport, storage and protection of fisheries and aquacultural products)	L60	- Taksonomi dan geografi haiwan (Animal taxonomy and geography))
J15	- Pengawasan, pengangkutan, aturan dan perlindungan hasil pertanian yang bukan berbentuk makanan atau bahan makanan (Handling, transport, storage and protection of non-food or non-feed agricultural products)	L70	- Sains Veterinar dan Kesihatan (Veterinary science and hygiene)
X	PERHUTANAN (FORESTRY)	L72	- Perosak haiwan (Pests of animals)
K01	- Perhutanan -Aspek am (Forestry - general aspects)	L73	- Penyakit-penyakit haiwan (Animal diseases)
K10	- Pengeluaran perhutanan (Forestry production)	L74	- Pelbagai penyakit haiwan (Miscellaneous animal disorders)
		M	PERIKANAN DAN AKUAKULTUR (FISHERIES AND AQUACULTURE)
		M01	- Perikanan dan akuakultur - aspek am (Fisheries and aquaculture - general aspects)
		M11	- Pengeluaran perikanan (Fisheries production)
		M12	- Pengeluaran dan pengurusan akuakultur (Aquaculture production and management)
		M40	- Ekologi akuatik (Aquatic biology)
		N	JENTERA DAN KEJURUTERAAN PERTANIAN (AGRICULTURAL MACHINERY AND ENGINEERING)

N01	-	Kejuruteraan pertanian (Agricultural engineering)	Q02	-	Pemprosesan dan pengawetan makanan (Food processing and preservation)
N02	-	Pertapakan ladang (Farm layout)	Q03	-	Pencemaran dan toksikologi makanan (Food contamination and toxicology)
N10	-	Struktur pertanian (Agricultural structures)	Q04	-	Kandungan makanan (Food composition)
N20	-	Jentera dan peralatan pertanian (Agricultural machinery and equipment)	Q05	-	Makanan penampung (Food additives)
P		SUMBER ALAM DAN SEKITARAN (NATURAL RESOURCES AND ENVIRONMENT)	Q51	-	Teknologi makanan ternakan (Feed technology)
P01	-	Pemuliharaan alam dan sumber tanah (Nature conservation and land resources)	Q52	-	Pemprosesan dan pengawetan makanan ternakan (Feed processing and preservation)
P05	-	Sumber tenaga dan pengurusan (Energy resources and management)	Q53	-	Pencemaran dan toksikologi makanan ternakan (Feed contamination and toxicology)
P06	-	Pembaharuan sumber tenaga (Renewable energy resources)	Q54	-	Kandungan makanan ternakan (Feed composition)
P07	-	Sumber tenaga yang bukan berbentuk pembaharuan (Non-renewable energy resources)	Q55	-	Makanan penampung ternakan (Feed additives)
P10	-	Sumber air dan pengurusan (Water resources and management)	Q60	-	Pemprosesan hasil pertanian yang bukan makanan manusia dan bukan makanan ternakan (Processing of non-food or non-feed agricultural products)
P11	-	Pengairan (Drainage)	Q70	-	Pemprosesan sisa-sisa pertanian (Processing of agricultural wastes)
P30	-	Sains tanah dan pengurusan (Soil science and management)	Q80	-	Pembungkusan (Packaging)
P31	-	Kajian dan pemetaan tanah (Soil surveys and mapping)	S		PEMAKANAN MANUSIA (HUMAN NUTRITION)
P32	-	Kimia dan genesis tanah (Soil chemistry and genesis)	S01	-	Pemakanan manusia - aspek am (Human nutrition - general aspects)
P33	-	Kimia dan fizik tanah (Soil chemistry and physics)	S20	-	Fisiologi pemakanan manusia (Physiology of human nutrition)
P34	-	Biologi Tanah (soil biology)	S30	-	Sajian makanan dan penyakit-penyakitnya (Diet and diet-related diseases)
P35	-	Kesuburan tanah (Soil fertility)	S40	-	Program-program pemakanan (Nutrition programmes)
P36	-	Hakisan, pemuliharaan dan penebusgunaan tanah (Soil erosion, conservation and reclamation)	T		PENCEMARAN (POLLUTION)
P40	-	Meteorologi dan kaji iklim (Meteorology and climatology)	T01	-	Pencemaran (Pollution)
Q		PEMROSESAN HASIL PERTANIAN (PROCESSING OF AGRICULTURAL PRODUCTS)	U		METODOLOGI (METHODOLOGY)
Q01	-	Sains & teknologi makanan (Food science and technology)	U10	-	Kaedah matematik dan statistik
			U30	-	Kaedah penyelidikan (Research methods)
			U40	-	Kaedah kajian (Surveying methods)

A: PERTANIAN AM

A50: Penyelidikan Pertanian

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C: PENDIDIKAN, PENGEMBANGAN DAN MAKLUMAT NASIHAT

C10: Pendidikan

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E: EKONOMI, PEMBANGUNAN DAN SOSIOLOGI DESA

E10: Ekonomi dan Polisi Pertanian

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J: TEKNOLOGI LEPAS TUAI

J10: Pengawasan, Pengangkutan, Penyimpanan dan Perlindungan Hasil Pertanian

XB8682149

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J15: Pengawasan, Pengangkutan, Penyimpanan dan Perlindungan Hasil Pertanian yang Bukan Bahan Makanan

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K: PERHUTANAN

K10: Pengeluaran Perhutanan

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L: SAINS PETERNAKAN, PENGELUARAN DAN PERLINDUNGAN

L01: Peternakan

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L02: Makanan Ternakan

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L10: Genetik dan Pembiakbaikan Ternakan

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Istilah Pertanian Pilihan

BAHASA INGGERIS

BAHASA MALAYSIA

A

acorn worms	-	cacing akorn
aeration of plant tissues	-	pegudaraan tisu tumbuhan
algae	-	alga
angiosperm	-	angiosperma
animal community	-	komuniti haiwan
annual plants	-	pokok semusim
apical growth	-	pertumbuhan apeks/tumbesar apeks
association plant	-	tumbuhan perkaitan
awn(cereal)	-	jejanggut (bijiran)
axillary bud	-	mata tunas ketiak

B

banyan tree	-	pokok ara
bark	-	kulit kayu
beet sugar	-	gula bit
biological control	-	kawalan biologi
bird's nest fern	-	paku langsuyar
bladderwort plant	-	pokok tangki
blight of sugar cane	-	hawar tebu
blue green algae	-	alga biru-hijau

C

cenozoic fauna	-	fauna senozo
cenozoic flora	-	flora senozo
chick pea	-	kacang kuda
citrus	-	sitrus; limau
clumping of plants	-	perumpunan tumbuhan
cotyledon	-	kotiledon
crotolaria	-	kacang hantu
crown of tree	-	silara pokok

D

dairy products	-	hasil tenusu
daughter plants	-	anak pokok
defoliators	-	peluruh daun

E

ecological efficiency	-	kecekapan ekologi
ecosystem	-	ekosistem
elasmobranch fish	-	ikan rawan

endospermic seed	-	biji benih endosperma
etiolated plants	-	tumbuhan teretiolat
evergreen	-	malar hijau
extra-flora nectary	-	madu ekstra-flora

F

fleshy leaf	-	daun lendair
floristics	-	jenis tumbuhan
food chain	-	rantai makanan
food web	-	siratan makanan; rangkaian makanan bari-bari
fruitfly	-	bari-bari

H

homogenized milk	-	susu berhomogeni
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L

long day plants	-	tumbuhan hari panjang
lower animals	-	haiwan rendah

M

macronutrient	-	makro-zat makanan
malnutrition	-	salah pemakanan
micronutrient	-	mikro-zat makanan
mosaic egg	-	telur berkawasan
mosaic rugose	-	penyakit kedut daun

O

oral groove	-	salur makanan
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P

palaeozoic fauna	-	fauna paleozoik
palaeozoic flora	-	flora paleozoik
pasteurization	-	pempasteuran
planarian worm	-	cacing planaria
plant community	-	komuniti tumbuhan
primary forest	-	hutan primer

Q

quarantine	-	karantina
quaternary fauna	-	fauna kuartemer

R

radicle	-	radikel/akar ulung
relative growth rate	-	kadar pertumbuhan relatif
reproductive rhythm	-	ritma pembiakan
reproductive tissue	-	tisu pembiakan
ruminant animal	-	haiwan ruminan

S		V	
seaweed	- rumpai laut	vegetation pattern	- pola tumbuh-tumbuhan
seed coat	- kulit biji	vegetative reduction	- penurunan tampang
smoking (food preservation)	- pengasapan (pengawetan makanan)	vegetative reproduction	- pembiakan tampang
soil agar	- agar-agar tanah	vein	- vena pembuluh; urat daun
stem apex	- apeks batang	W	
subclimax vegetation	- tumbuhan subklmaks	waste land	- tanah tandus
subsoil	- tanah bawah	water weed	- rumpai air
T		white fibrous tissue	- tisu serabut putih
tachnid fly	- lalat taknid	Y	
tobacco mosaic virus	- virus mozek tembakau	yaw (fish; disease)	- puru (Ikan; penyakit)
toxin	- toksin	yeast suspension	- ampaian yis
trace nutrient	- zat makanan surih	yew	- pohon cemara
tree fern	- paku gajah	Z	
tunicate	- haiwan tunikat	zoogeographical area	- kawasan zoogeografi
U		zooplankton	- zooplankton
urea	- urea		
uric acid	- asid urik		

Kalendar Kongres Pertanian

Kalendar ini menyenaraikan seminar, konferens, simposium dan bengkel peringkat kebangsaan dan antarabangsa mengenai pertanian dan perkara-perkara berkaitan dengannya yang akan diadakan dari bulan Jun 1988 hingga bulan November 1988. Untuk melengkapkan lagi senarai ini, anda dipelawa untuk melaporkan apa juga maklumat mengenai seminar, konferens dan bengkel-bengkel pertanian lain yang tidak termasuk dalam senarai ini.

Jun 13 - 17

Judul : Penanaman Getah dan Kaedah Tapak Semaian (Kursus Agronomi)

Tempat : Pusat Latihan Stesen Percubaan RRIM, Sungai Buloh

Anjuran : Institut Penyelidikan Getah Malaysia

Jun 21 - 23

Judul : Malaysian Agricultural Policy: Issues and Direction

Tempat : UPM

Anjuran : Pusat Kajian Dasar Pertanian, UPM; PETA

Julai 11 - 14

Judul : Penorehan, Sistem Penorehan dan Penggalakan Hasil Getah (Kursus Agronomi)

Tempat : Pusat Latihan Stesen Percubaan RRIM, Sungai Buloh

Anjuran : Institut Penyelidikan Getah Malaysia

September 19 - 22

Judul : Perlindungan Tanaman dan kawalan Rumpai di Ladang Getah (Kursus Agronomi)

Tempat : Pusat Latihan Stesen Percubaan RRIM, Sungai Buloh

Anjuran : Institut Penyelidikan Getah Malaysia

Oktober 3 - 8

Judul : Kursus Pengeluaran Lateks Pekat dan Pengenalan Penghasilan Barangan dari Lateks

Tempat : Pusat latihan Stesen Percubaan RRIM, Sungai Buloh

Anjuran : Institut Penyelidikan Getah Malaysia

November 12- 13

Judul : Towards Developing a Better Technological Base for SMEs in Malaysia

Tempat : UPM

Anjuran : Pusat Pembangunan Perusahaan Kecil, UPM; MARDEC

November 21 - 26

Judul : Kursus Pengeluaran Gred 'Conventional' Getah Asli

Tempat : Pusat Latihan Stesen Percubaan RRIM, Sungai Buloh

Anjuran : Institut Penyelidikan Getah Malaysia

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