

CENTRAL COUNCIL OF INDIAN MEDICINE

NEW DELHI

SYLLABUS FOR SIDDHA MARUTHUVA ARIGNAR (BSMS) COURSE
(as per the Indian Medicine Central Council (Minimum Standards of Education in Indian Medicine)
amendment Regulations, 2016)

SECOND PROFESSIONAL BSMS

GUNAPADAM-MARUNTHIYAL (PHARMACOLOGY) **PAPER I -MOOLIGAI (MATERIAMEDICA - PLANT KINGDOM)**

Detailed study about the following herbs which includes

1. Description, 2. Veruveyarkal (Synonyms), 3. Scientific name, 4. Various names in regional languages,
5. Identification, 6. Distribution 7. Pothu Gunam (General properties) 9. Suvai (Taste), Veeryam (Potency), Pirivu (Division), Specific action, 10. Organoleptic characters, 11. Therapeutic actions, 12. Doses, 13. Uses 14. Name of different formulations pertaining to this herb. 15. Chemical constituents, 16. Nanju (Toxicity if any) and Nanju murivu (Antidote) 17. Suddhi (Purification)

Sl. No.	Tamil Name	Botanical Name
1	Agatti	- Sesbania grandiflora
2	Akkarakaram	- Anacylus pyrethrum DC
3	Asogu	- Saraca asoca
4	Athimathuram	- Glycyrrhiza glabra
5	Atti	- Ficus recemosa
6	Abini -Kasa Kasa	- Papaver somniferum
7	Amukkurakkizhangu	- Withania somnifera
8	Amman pachcharisi	- Euphorbia pilurifera
9	Arasu	- Ficus religiosa
10	Arathai	- Alpinia galanga
11	Arunelli	- Phyllanthus acidus
12	Avarai	- Lablab purpureus
13	Avuri	- Indigofera tinctoria
14	Azhavanam	- Lawsonia inermis
15	Azhinjil	- Alangium salvifolium
16	Arugu	- Cynodon dactylon
17	Akasagarudan	- Corallocarpus epigaeus
18	Adathodai	- Justicia adatoda
19	Adutheendapalai	- Aristolochia bracteolata
20	Amanakku	- Ricinus communis
21	Chitramanakku	-
22	Peramanakku	- Ricinus inermis
23	Chevvamanakku	- Ricinus tanarius
24	Alamaran	- Ficus benghalensis
25	Aavarai	- Cassia auriculata
26	Attuthumatti	- Citrullus colocynthis

Sl. No.	Tamil Name	Botanical Name
27	Iruvi	- <i>Dryopteris felixmas</i>
28	Isangu	- <i>Clerodendrum inerme</i>
29	Isappukolvidhai	- <i>Plantago ovata</i>
30	Inji	- <i>Zingiber officinale</i>
31	Indu	- <i>Mimosa rubicaulis</i>
32	Impural	- <i>Oldenlandia umbellata</i>
33	Lavangam	- <i>Syzygium aromaticum</i>
34	Lavangappattai	- <i>Cinnamomum verum</i>
35	Iluppai	- <i>Madhuca longifolia</i>
36	Ilaikalli	- <i>Euphorbia ligularia</i>
37	Eechu (Sitrechu)	- <i>Phoenix sylvestris</i>
38	Pereechu	- <i>Phonex dactilifera</i>
39	Echchura mooli	- <i>Aristolochia indica</i>
40	Usilamaram	- <i>Albizia odoratissima</i>
41	Uttamani	- <i>Pergularia daemia</i>
42	Uppilangodi	- <i>Mimosa paniculata</i>
43	Rudra jadai	- <i>Ocimum basilicum</i>
44	Rudraksham	- <i>Elacocarpus sphacsicus</i>
45	Uzhundu	- <i>Vigna mungo</i>
46	Umaththai	- <i>Datura metal</i>
47	Karu umaththai	-
48	Etti	- <i>Strychnos nux-vomica</i>
49	Erukku	- <i>Calotropis gigantea</i>
50	Elumichai	- <i>Citrus lemon</i>
51	Ellu	- <i>Sesamsum indicum</i>
52	Elam	- <i>Elettaria cardamomum</i>
53	Chitrelam	- <i>Elettaria regains</i>
54	Kattu – elakkay	- <i>Amomum subulatum</i>
55	Malayelam	-
56	Udimaram	- <i>Lannea coromandelica</i>
57	Omam	- <i>Carum copticum</i>
58	Kurosani omam	- <i>Hyoscyamus niger</i>
59	Oritazhtamarai	- <i>Ionidium suffruficosum</i>
60	Orilai tamarai	- <i>Nervilia aragoana</i>
61	Kanja	- <i>Cannabis sativa</i>
62	Kadalazhinjil	- <i>Salacia reticulata</i>
63	Kadalai	- <i>Cicer arietinum</i>
64	Chengadugu	- <i>Brassica juncea</i>
65	Vengadugu	- <i>Brassica alba</i>
66	Kadugu rokani	- <i>Picrorhiza scrophulariflora</i>
67	Kadukkai pinchu	- <i>Terminalia chebula</i>
68	Kandangkattari	- <i>Solanum surattense</i>
69	Kanduparangi	- <i>Clerodendron serratum</i>
70	Kasthuri manjal	- <i>Curcuma aromatica</i>
71	Kamuku -Kalippakklu	- <i>Areca catechu</i>
72	Kottaikaranthai	- <i>Spaeranthus indicus</i>
73	Karisalankanni	- <i>Eclipta prostrata</i>
74	Karungali	- <i>Acacia catechu</i>

Sl. No.	Tamil Name	Botanical Name
75	Karunai thandu	- <i>Amarphophallus paeonic folius</i>
76	Karpuravalli	- <i>Aniso chilus carnosus</i>
77	Karumbu	- <i>Saccharum officinarum</i>
78	Karkadaga singhi	- <i>Rhus succedanea</i>
79	Kallapai kizhangu	- <i>Glorius superba</i>
80	Kaliyana pushnikay	- <i>Benincasa hispida</i>
81	Kaliyana murukku	- <i>Erythrina variegata</i>
82	Kazharchi kodi	- <i>Caesalpinia bonduc</i>
83	Kala	- <i>Carissa carandar</i>
84	Kalli	- <i>Euphorbia ligularia</i>
85	Kodikalli	- <i>Sarcosemma brevistigma</i>
86	Shadhurakalli	- <i>Euphorbia antiquorum</i>
87	Kalli-mulayan	- <i>Stapelia virgata</i>
88	Kari-vembu	- <i>Murraya koenigi</i>
89	Katrazhai	- <i>Aloe barbadensis</i>
90	Kariabolam	- <i>Aloe littoralis</i>
91	Kakkanam	- <i>Clitoria ternatea</i>
92	Kakkai kolli	- <i>Anamirta cocculus</i>
93	Kanchori	- <i>Tragia involucrata</i>
94	Kattatti	- <i>Bauhinia tomentosa</i>
95	Karai	- <i>Catunaregum spinora</i>
96	Karpokarisi	- <i>Psoralea corylifolia</i>
97	Kitchilikizhangu	- <i>Curcuma zeodaria</i>
98	Kiraikal	- Greens
99	Puthina	- <i>Mentha arvensis</i>
100	Puliyarai	- <i>Oxalis corniculata</i>
101	Manali kirai	- <i>Gisekia pharnaceoides</i>
102	Kiraithandu	- <i>Amaranthus gangeticus</i>
103	Kizhanelli	- <i>Phylanthus amarus</i>
104	Kungiliam	- <i>Shorea robusta</i>
105	Kungumappoo	- <i>Crocus sativus</i>
106	Kudasapalai	- <i>Holarrhena pubescens</i>
107	Kudiyottupoondu	- <i>Argemone mexicana</i>
108	Kunthrikkam	- <i>Boswellia serrata</i>
109	Kuppeimeni	- <i>Acalypha indica</i>
110	Kuruver	- <i>Vetiveria zizanoides</i>
111	Kurinjan	- <i>Gymnema sylvestre</i>
112	Kuntri	- <i>Abrus precatorius</i>
113	Kodiveli	- <i>Glycosmis arborea</i>
114	Chenkodiveli	- <i>Plumbago rosea</i>
115	Koththumalli	- <i>Coriandrum sativum</i>
116	Konrai-Sarak-Konrai	- <i>Cassia fistula</i>
117	Sirukonrai	- <i>Cassia arborescens</i>
118	Senkonrai	- <i>Cassia marguata</i>
119	Kottam	- <i>Costus speciosus</i>
120	Korai	- <i>Cyperus rotundus</i>
121	Kovai	- <i>Coccinia grandis</i>
122	Jadamanji	- <i>Nardostachys grandiflora</i>

Sl. No.	Tamil Name	Botanical Name
123	Sembagam	- <i>Michelia champaca</i>
124	Chathakuppai	- <i>Anethum graveolens</i>
125	Charanai	- <i>Trianthema decandra</i>
126	Chandanam	- <i>Santalum album</i>
127	Nattu jadhikai	- <i>Myristica fragrans</i>
128	Chathipaththiri	- <i>Myristica fragrans</i>
129	Shambrani	- <i>Styrax benzoin</i>
130	Salamisri	- <i>Orchis latifolia</i>
131	Sivathai	- <i>Operculina turpethum</i>
132	Shivanar vembu	- <i>Indigofera aspalathoides</i>
133	Chirunagapu	- <i>Mesua nagassarium</i>
134	Chitramutti	- <i>Pavonia zeylanica</i>
135	Peramutti	- <i>Pavonia odorata</i>
136	Cheekai	- <i>Acacia sinuata</i>
137	Sindil	- <i>Tinospora cordifolia</i>
138	Porsindil	-
139	Shimai atti	- <i>Ficus carica</i>
140	Chirakam	- <i>Cuminum cyminum</i>
141	Karunchirakam	- <i>Nigella sativa</i>
142	Perunchirakam	- <i>Pimpinella anisum</i>
143	Kattu chirakam	- <i>Vernonia antihelmintica</i>
144	Chukku	- <i>Zingiber officinale</i>
145	Chundai	- <i>Solanum torvum</i>
146	Chemparuthi	- <i>Hibiscus rosa-sinensis</i>
147	Chemparathai	- <i>Gossypium arboreum</i>
148	Chembai	- <i>Sesbania sesban</i>
149	Cheruppadi	- <i>Mollugo lotoides</i>
150	Cheviyam	- <i>Piper nigrum</i>
151	Cherankottai	- <i>Semecarpus anacardium</i>
152	Manathathakkali	- <i>Solanum nigrum</i>
153	Thannirvittan kizhangu	- <i>Asparagus racemosus</i>
154	Thavasu murungai	- <i>Rungia parviflora</i>
155	Thazhuthazhai	- <i>Clerodendrum phlomidis</i>
156	Thamarai	- <i>Nelumbo nucifera</i>
157	Thazhai	- <i>Pandanus odoratissimus</i>
158	Thalisa-paththiri	- <i>Abies spectabilis</i>
159	Thantri	- <i>Terminalia bellirica</i>
160	Thippili	- <i>Piper longum</i>
161	Thippiliver	- <i>Piper longum</i>
162	Thirakshai	- <i>Vitis vinifera</i>
163	Thutthi	- <i>Abutilon indicum</i>
164	Thumbai	- <i>Leucas aspera</i>
165	Thulasi	- <i>Ocimum sanctum</i>
166	Thuthuvalai	- <i>Solanum trilobatum</i>
167	Tengumaram	- <i>Cocos nucifera</i>
168	Devadaru	- <i>Cedrus deodara</i>
169	Thettran	- <i>Strychnos potatorum</i>
170	Nancharuppan	- <i>Tylophora indica</i>

Sl. No.	Tamil Name	Botanical Name
171	Naththaichuri	- <i>Spermacoce hispida</i>
172	Nanthiavattam	- <i>Tabernaemontana divaricata</i>
173	Nannari	- <i>Hemidesmus indicus</i>
174	Nabi	- <i>Aconitum napellus</i>
175	Nayuruvi	- <i>Achyranthes aspera</i>
176	Naval	- <i>Syzygium cumini</i>
177	Nilavembu	- <i>Andrographis paniculata</i>
178	Nila varai	- <i>Cassia senna</i>
179	Neeradimuthu	- <i>Hydnocarpus laurifolia</i>
180	Nirmulli	- <i>Hygrophila auriculata</i>
181	Nuna	- <i>Mosinda tinctoria</i>
182	Neichatti	- <i>Vernonia cinerea</i>
183	Nerunjil	- <i>Tribulus terrestris</i>
184	Nel	- <i>Oryza sativa</i>
185	Nelli	- <i>Phyllanthus emblica</i>
186	Nervalam	- <i>Croton tiglium</i>
187	Notchi	- <i>Vitex negundo</i>
188	Pachillai	- <i>Garcinia xanthochymus</i>
189	Pala	- <i>Artocarpus heterophyllus</i>
190	Palasu	- <i>Butea monosperma</i>
191	Parangippattai	- <i>Smilax china</i>
192	Parppatakam	- <i>Hedyotis corymbosae</i>
193	Panai	- <i>Horastrus flbellifer</i>
194	Vetpalai	- <i>Wrightia tinctoria</i>
195	Pitharoghani	- <i>Coptis teeta</i>
196	Pidangunasi	- <i>Premma tomentosa</i>
197	Pirandai	- <i>Cissus quadrangularis</i>
198	Chirupelai	- <i>Aerva lanata</i>
199	Pugaiyilai	- <i>Nicotiana tabacum</i>
200	Pungu	- <i>Pongamia pinnata</i>
201	Puli	- <i>Tamarindus indicus</i>
202	Puvarasu	- <i>Thespesia populnea</i>
203	Poonaikali	- <i>Mucuna pruriens</i>
204	Perungayam	- <i>Ferula asafetida</i>
205	Poduthalai	- <i>Phyta nodiflora</i>
206	Ponnanganni	- <i>Alternanthera sessils</i>
207	Magizh	- <i>Mimusops elengi</i>
208	Mangusthan	- <i>Garcinia mangostana</i>
209	Manjal	- <i>Curcuma longa</i>
210	Mara manjal	- <i>Coscinium fenestratum</i>
211	Manjitti	- <i>Rubia cordifolia</i>
212	Madanakamappu	- <i>Cucus circinalis</i>
213	Malli	- <i>Jasminum grandiflorum</i>
214	Marakkarai	- <i>Catunaregum spinosa</i>
215	Maruthu	- <i>Terminalia arjuna</i>
216	Maa	- <i>Mangifera indica</i>
217	Masikkai	- <i>Quercus infectoria</i>
218	Masipathiri	- <i>Artemisia nilagisica</i>

Sl. No.	Tamil Name	Botanical Name
219	Mathulai	- <i>Punica granatum</i>
220	Milagu	- <i>Piper nigrum</i>
221	Val milagu	- <i>Piper cubeba</i>
222	Milakaranai	- <i>Todalia asiatica</i>
223	Musumusukkai	- <i>Mukia madraspatana</i>
224	Mudakkattan	- <i>Cardiospermum helicacabum</i>
225	Murungai	- <i>Moringa oleifera</i>
226	Mukkirattai	- <i>Boerhavia diffusa</i>
227	Mungil	- <i>Bambusa arundinacea</i>
228	Vasambu	- <i>Acorus calamus</i>
229	Vandukolli	- <i>Cassia alata</i>
230	Valampurikkai	- <i>Helicteres isora</i>
231	Vallarai	- <i>Centella asiatica</i>
232	Vadhanarayan	- <i>Delonix elata</i>
233	Vaividangum	- <i>Embelia ribes</i>
234	Valuzhuvai	- <i>Celestrus paniculatus</i>
235	Vazhai	- <i>Musa paradisiaca</i>
236	Vidathari	- <i>Dichrostachys cinerea</i>
237	Virali	- <i>Dodonaea viscosa</i>
238	Vilvam	- <i>Aegle marmelos</i>
239	Vilamichamver	- <i>Plectranthus vettiveroides</i>
240	Vilamaran	- <i>Limonia acidissima</i>
241	Vishnukiranthy	- <i>Evolvulus alsinoides</i>
242	Vengayam	- <i>Alium cepa</i>
243	Vendayam	- <i>Trigonella foenum</i>
244	Vellarikai	- <i>Cucumis sativus</i>
245	Vellarugu	- <i>Enicostemma axillare</i>
246	Velllothram	- <i>Symplocos racemosa</i>
247	Vellulli	- <i>Allium sativum</i>
248	Vetrilai	- <i>Piper betle</i>
249	Vembu	- <i>Azadirachta indica</i>
250	Vel	- <i>Acacia nilotica</i>
251	Velvel	- <i>Acacia leucophloea</i>
252	Kudaivel	- <i>Acacia latronum</i>
253	Pikkaruvel	- <i>Acacia farnesiana</i>
254	Velai	- <i>Cleome viscosa</i>
255	Thaivelai	- <i>Gynandropsis gynandra</i>

Note: Questions for 80% of marks shall be taken from the aforesaid list of plants and the questions for rest 20% of marks shall be from the below list of plants which can be studied by the students themselves with the guidance of the teacher.

Sl. No.	Tamil Name	Botanical Name
1	Akrottu	- <i>Juglans regia lin.</i>
2	Alisi virai	- <i>Linum usitatissimum</i>
3	Arukirai	- <i>Amarantus tristis</i>
4	Annasipazham	- <i>Ananas comosus</i>
5	Araikirai	- <i>Marsilea quadrifolia</i>

Sl. No.	Tamil Name	Botanical Name
6	Alpagoda pazham	- <i>Prunus domestica</i>
7	Al-vallikizhangu	- <i>Manihot esculenta</i>
8	Attunetti	- <i>Neptunia oleracea</i>
9	Anai-katrazhai	- <i>Agave americana</i>
10	Anai kunri	- <i>Adenanthera pavonina</i>
11	Anaippuliamaram	- <i>Adansonia digitata</i>
12	Rattai – peimarutti	- <i>Anisomeles malabarica</i>
13	Rattabolam	- <i>Aloe barbadensis</i>
14	Ezhathalari	- <i>Plumeria rubra</i>
15	Uka	- <i>Salvadora persica</i>
16	Uzhalathi	-
17	Usilam	-
18	Erisalai	-
19	Elumichan thulasi	- <i>Ocimum gratissimum</i>
20	Ezhilapalai	- <i>Alstonia scholaris</i>
21	Odukkan	- <i>Cleistanthus collinus</i>
22	Kakkarikkay	- <i>Cucumis sativus</i>
23	Kasa-kasa	- <i>Papaver somniferum</i>
24	Kadarpalai	- <i>Argyreia nervosa</i>
25	Kadar tengay	- <i>Lodoicea maldivica</i>
26	Kadara naraththai	- <i>Citrus medica</i>
27	Kalumichchamkai	-
28	Kavizh thumbai	- <i>Trichodesma indicum</i>
29	Kazhu-nir	- <i>Nymphaea alba</i>
30	Kalarva	- <i>Salvadora persica</i>
31	Chirukalarva	- <i>Salvadora persica</i>
32	Karkovai	- <i>Melothria heterophylla</i>
33	Kartamarai	- <i>Smilax zeylanica</i>
34	Kasa	- <i>Memecylon umbellatum</i>
35	Kasi rathnam	- <i>Quamoclit pennata</i>
36	Kattu elumichchai	- <i>Atalantia malabarica</i>
37	Kattu ellu	- <i>Sesamum prostratum</i>
38	Kattu kadugu	- <i>Cleome viscosa</i>
39	Kattu karuvappattai	- <i>Cinnamomum iners</i>
40	Kattu thumbai	-
41	Kattu pagal	- <i>Momordica dioica</i>
42	Kattu peipudal	- <i>Trichosanthes lobata</i>
43	Kattu mullangi	- <i>Blumea lacera</i>
44	Kattu Vengayam	- <i>Urginea indica</i>
45	Kai-vallikkodi	- <i>Dioscorea alata</i>
46	Karamani	- <i>Vigna unguiculata</i>
47	Kavatambul	- <i>Cymbopogon martinic</i>
48	Kiranthinayagam	-
49	Kumizhmaram	- <i>Gmelina arborea</i>
50	Kumkkaththi	- <i>Hiptage benghalensis</i>
51	Kuruvich-chi	- <i>Ehretia microphylla</i>
52	Kuthambai	- <i>Cantana indica</i>
53	Kunthanpanai	- <i>Caryota urens</i>

Sl. No.	Tamil Name	Botanical Name
54	Kuvai kizhangu	- Maranta arundinacea
55	Koththavarai	- Cyamopsis tetragonoloba
56	Kodaga salai	- Rungia repens
57	Gopuram tangi	- Andrographis echiodes
58	Chanappu	- Crotalaria juncea
59	Saninayagam	-
60	Chavukkumaram	- Casuarina equisetifolia
61	Samanthipoo	- Chrysanthemum coronarium
62	Chayamaram	- Caesalpinia sappan
63	Chavarisimaram	-
64	Charaiparuppu	- Buchanania lanza
65	Chinnikizhangu	-
66	Chukkankai	-
67	Chukkan kirai	- Rumex vesicarius
68	Chulukku nayagam	-
69	Suriyakanthi	- Helianthus annus
70	Cheppu – nerunjil	- Indigofera enneaphylla
71	Chevaganar kizhangu	- Gloriosa superba
72	Peyavarai	- Cassia occidentalis
73	Thakkolam	-
74	Tamaraththam	- Avarrhoa carambola
75	Thara	- Fumaria parviflora
76	Thalippanai	- Corypha umbraculifera
77	Thillai	- Excoecaria agallocha
78	Thumbilkai	- Diospyros peregrina
79	Thurinjibin	- Alhagi maurorum
80	Thekku	- Tectona grandis
81	Naruvili	- Cordia dichotoma
82	Naganam	-
83	Nagathali	- Opuntia dillenii
84	Nanal	- Saccharum spontaneum
85	Nilakkadambu	- Asarum europaeum
86	Nilakumizh	- Gmelina asiatica
87	Nilappanai	- Curculigo orchioides
88	Nilavamanakku	-
89	Nintral chinungi	-
90	Niralasi	- Polygorum barbatum
91	Nirbrahmi	- Bacopa monnieri
92	Nirpula	- Phyllanthus reticulatus
93	Nirmel neruppu	- Ammania baccifera
94	Nettilingam	- Polyalthia longifolia
95	Neithar kizhangu	- Nymphaea pubescens
96	Pannimonthan kizhangu	- Trapa natans
97	Paruththi	- Gossypium herbaceum
98	Motchai	- Lablab purpureus
99	Chemparuththi	- Gossypium arboreum
100	Parangikai	- Cucurbita maxima
101	Panirpoo	- Rosa centifolia

Sl. No.	Tamil Name	Botanical Name
102	Pakal	- <i>Momorchica charantia</i>
103	Palai	- <i>Manikara hexandra</i>
104	Piramiya vazhukkai	- <i>Bacopa monniesi</i>
105	Piray	- <i>Streblus asper</i>
106	Pilimbi	- <i>Averrhoa bilimbi</i>
107	Pilavai kolli	-
108	Pudal	- <i>Trichosanthes cucumesina</i>
109	Punnai	- <i>Calophyllum inophyllum</i>
110	Ponmusuttai	- <i>Sida acuta</i>
111	Manipungu	- <i>Sapindus lausifolia</i>
112	Musarkathilai	- <i>Ipomea pes-caprae</i>
113	Mavilangu	- <i>Crateava magna</i>
114	Munthiri	- <i>Anacardium occidentale</i>
115	Mullangi	- <i>Raphanus sativus</i>
116	Modagavalli	- <i>Sterculia foetida</i>
117	Valli	- <i>Dioscorea esculenta</i>
118	Chevalli	- <i>Dioscorea purpurea</i>
119	Vagai	- <i>Albizia lebbeck</i>
120	Karuvagai	- <i>Albizia odoratissima</i>
121	Vadhuniai	- <i>Prunus dulcis</i>
122	Vizhalarisi	- Seed of red grass
123	Peru-lavangappattai	- <i>Cinnamomum macrocarpum</i>
124	Peyatti	- <i>Ficus hispida</i>
125	Vengai	- <i>Pterocarpus marsupium</i>
126	Aruvada	- <i>Ruta chalepensis</i>
127	Ezhuttani poondu	- <i>Launaea pinnatifida</i>
128	Karimulli	- <i>Solanum anguini</i>
129	Kanam vazhai	- <i>Commelina benghalensis</i>
130	Siththa	- <i>Anona squamosa</i>
131	Pallipundu	- <i>striga lutea</i>
132	Valendrabolam	- <i>Commiphora myrrh</i>
133	Ayil	- <i>Chukrasia tabularis</i>
134	Aththi	- <i>Ficus microcarpa</i>
135	Alivirai	- <i>Lepidium sativum</i>
136	Ireval chinni	- <i>Rheum emodi</i>
137	Ilanda maram	- <i>Ziziphus mauritiana</i>
138	Ilavamaram	- <i>Bombax ceiba</i>
139	Mulilavu	- <i>Bombax malabaricum</i>
140	Urulai kizhangu	- <i>Solanum tuberosum</i>
141	Elikkadilai	- <i>Merremia emarginata</i>
142	Eliyamanakkku	- <i>Jatropha curcas</i>
143	Iyvirali	- <i>Diplocyclos palmatus</i>
144	Kadambu	- <i>Anthocephalus cadamba</i>
145	Kadarpassi	- <i>Gracilaria lichenoides</i>
146	Kattukodi	- <i>Coccylus hirsutus</i>
147	Kanap-pundu	- <i>Exacum pedunculatum</i>
148	Kathakambu	- <i>Uncaria gambir</i>
149	Kambu	- <i>Pennisetum typoides</i>

Sl. No.	Tamil Name	Botanical Name
150	Kaththari	- <i>Solanum melongena</i>
151	Karpasi	- <i>Parmelia perlata</i>
152	Kattamanakku	- <i>Jatropha curcas</i>
153	Kappikottai	- <i>Coffea arabica</i>
154	Kalen	- <i>Agaricus campestris</i>
155	Kitchilipazham	- <i>Citrus aurantium</i>
156	Kirauthitakaram	- <i>Tabernaemontana divaricata</i>
157	Kiliyural	-
158	Kilukiluppai	- <i>Crotalaria retusa</i>
159	Keeripundu	- <i>Ophiorrhiza mungos</i>
160	Kurattai	- <i>Trichosanthes tricuspidata</i>
161	Kezhvaragu	- <i>Eleusine coracana</i>
162	Kottikizhangu	- <i>Aponogeton monostachyon</i>
163	Kollu	- <i>Macrotyloma uniflorum</i>
164	Kollukkaivelai	- <i>Tephrosia purpurea</i>
165	Korukkaip-puli	- <i>Pithecellobium duke</i>
166	Kothumai	- <i>Triticum aestivum</i>
167	Gowrivalpul	-
168	Samai	- <i>Panicum sumatrense</i>
169	Chirupeyathi	- <i>Ficus hispida</i>
170	Chini	- <i>Acalypha fruticosa</i>
171	Churai	- <i>Lagenaria siceraria</i>
172	Sembu	- <i>Colocasia esculenta</i>
173	Cholam	- <i>Sorghum vulgare</i>
174	Thakarai (Usithakarai)	- <i>Cassia tora</i>
175	Thakkali	- <i>Physalis minima</i>
176	Tharuppai	- <i>Desmostachya bipinnata</i>
177	Thinai	- <i>Setaria italica</i>
178	Thuvarai	- <i>Cajanus cajan</i>
179	Telkodukku	- <i>Heliotropium indicum</i>
180	Thottar Chinungi	- <i>Mimosa pudica</i>
181	Naralai	- <i>Cayratia pedata</i>
182	Nagamalli	- <i>Rhinacanthus nasuta</i>
183	Payaru	- <i>Vigna mungo</i>
184	Pappali	- <i>Casica papaya</i>
185	Badampisin	-
186	Pathiri	- <i>Stereospermum colais</i>
187	Barely	- <i>Hordeum vulgara</i>
188	Pirappan kizhangu	- <i>Calanus rotang</i>
189	Pinasimaram	- <i>Sterculia foetida</i>
190	Pavattai	- <i>Pavetta indica</i>
191	Pulluruvi	- <i>Dendrophthoe falcata</i>
192	Pulladi	- <i>Desmodium gangeticum</i>
193	Mantharai (red)	- <i>Bauhinia purpurea</i>
194	Mulam	- <i>Citrullus vulgaris</i>
195	Munnai	- <i>Premna corymbosa</i>
196	Varagu	- <i>Paspalum scrobiculatum</i>
197	Vallikodi	- <i>Convolvulus repens</i>

Sl. No.	Tamil Name	Botanical Name
198	Vizhuthi	- Cadaba trifoliate
199	Vishamunkil	- Crinum asiaticum
200	Vetchi	- Ixora coccia
201	Vendakai	- Abelmoschus esculantus
202	Verkalai	- Arachis hypogea
203	Akasathamarai	- Pistia stratiotes
204	Anthimalli	- Mirabilis jalapa

Reference Books:

- 1) Gunapadam – Mooligai Vaguppu – by Dr. Murugesamudaliar
- 2) Materia Medica – Vol I & II – by Dr. Nadkarani.
- 3) Mooligai Iyal – By – Dr.V.Arunachalam M.D.Siddha.

CENTRAL COUNCIL OF INDIAN MEDICINE

NEW DELHI

SYLLABUS FOR SIDDHA MARUTHUVA ARIGNAR (BSMS) COURSE
(as per the Indian Medicine Central Council (Minimum Standards of Education in Indian Medicine) amendment Regulations, 2016)

SECOND PROFESSIONAL BSMS

GUNAPADAM –MARUNTHIYAL (PHARMACOLOGY)

PAPER II -THATHU & JEEVAM (MATERIAMEDICA –METALS, MINERALS & ANIMAL KINGDOM)

- **Introduction to General Pharmacology with reference to Siddha drugs and principles.**
Introduction -Routes of drug administration- Absorption and distribution - Biotransformation - Pharmacokinetics - Drug excretion- Pharmacodynamics - Adverse drug reactions
- Detailed study about the following raw drugs which includes
1.Description, 2.Veruveyarkal (Synonyms), 3. Scientific name, 4. various names in regional languages, 5. Identification, 6. Availability, 7. Pothu gunam (General properties) 9. Suvai (Taste), Veeryam (Potency), Pirivu (Division), Specific action, 10. Organoleptic characters, 11. Therapeutic actions,12. Alavu (doses), 13. uses 14.Name of different formulations pertaining to this drug. 15. Chemical constituents, 16. Nanju (Toxicity) if any and Nanju murivu (Antidote) 17. Sudhi (Purification)
- Classification of metals & minerals
- Study of Natpu charakku (Synergetic) and Pagai charakku (antagonistic drugs).
- Classification of drugs based on five elements
- Herbs containing Iron, Copper, Gold, Lead, Silver

Ilogangal –(Metals)

Sl. No	Tamil Name	English Name / Scientific Name
1	Ayam	Iron
2	Ekkhu	Steel
3	Kareyam	Lead
4	Kandham	Magnetic Oxide of Iron
5	Thambram	Copper
6	Nagam	Zinc
7	Thankam	Gold
8	Mandooram	Ferrous Ferric Oxide
9	Velleyam	Tin
10	Velli	

II. Pancha Sootham -(Mercurial Compounds)

Sl. No	Tamil Name	English Name / Scientific Name
1	Rasam	Mercury
2	Rasa Sindooram	Red Sulphide of mercury
3	Lingam	Cinnabar – Natural
4	Rasa Karpooram	Calomel - Hydragyrum subchloride
5	Veeram	Corrosive sublimate - Hydrogyrum per chloride

III. Pashanangal - (Metal / Mineral Salts)

Sl. No	Tamil Name	English Name / Scientific Name
1	Anjanakal	Antimony Sulphide
2	Kanthakam	Sulphur
3	Gowri pashanam	Yellow Oxide of arsenic (Synthetic)
4	Thalagam	Yellow Arsenic Trisulphide
5	Navar pashanangal	Nine kinds of metal salts
6	Pancha pashanangal	Five kinds of metal salts
7	Manosilai	Red Arsenic Disulphide (Realger)
8	Mirudhar sinki	Galena Sulphide (Lead ore)
9	Vellaippashanam	Arsenium Acidum (White Arsenic)

IV. Karasaram - (Salts and Alkalies)

Sl. No	Tamil Name	English Name / Scientific Name
1	Applakkaram	Sodium Carbonate impure
2	Induppu	Sodium Chloride Impure (RockSalt)
3	Evatcharam	Potassium Carbonate impure
4	Kanavai odu	OS SEPIAE (Cuttle fish bone)
5	Gandhiuppu	Salts of Sulphur
6	Kalluppu	Salt found in lumps deposited on beds of rocks at the bottom of the sea
7	Kariuppu	Sodium chloride (Common salt)
8	Cheenakkaram	Alum (Aluminous Sulphate)
9	Soodan	Camphor
10	Navachcharam	Ammonium chloridum (Sal ammoniac)
11	Pachai karpooram	Borneo camphor (Crude camphor)
12	Panchalavanam	Mixture of five salts
13	Pidalavanam	Black salt
14	Pooneeru	Fuller's earth
15	Ambar	Ambra arasea
16	Valaiyaluppu	Extracted salt from fuller's earth (Glass gall)
17	Vengaram	Sodium biborate (Borax)
18	Vediuppu	Potassium nitrate (Salt petre)
19	Attuppu	A boiled salt obtained from salt petre

V. Navamanigal – Gems

Sl. No	Tamil Name	English Name / Scientific Name
1	Pavazham	Coral
2	Muthu	Pearl

VI. Uparasam - Minerals (Natural Substances)

Sl. No	Tamil Name	English Name / Scientific Name
1	Appiragam	Mica
2	Annabedhi	Ferri Sulphas (Green vitriol)
3	Karpoorasilasathu	Crystallised foliated Gypsum
4	Kalnar	Asbestos

5	Karchunnam	Lime stone
6	Kadikkaram	Nitrate of silver
7	Kavikkal	Red ochre
8	Gomuthra silasathu	Asphaltum (Asphalt mineral piteh)
9	Thurusu	Cupric sulphate (Blue vitriol)
10	Nandukkal	Fossil stone crab
11	Palthutham	Sulphate of zinc

VII.JEEVAM -MATERIA MEDICA (ANIMAL KINGDOM)

Sl. No	Tamil Name	English Name / Scientific Name
1)	Attai	Hirudo Medicinalis (Speckled leech)
2)	Aamai	Chelonia Turtle (Tortoise)
3)	Indrakopa poochi	Mutilla Occidentalis
4)	Iragukal	Feathers
5)	Eri vandu	Mylabris Sps.
6)	Elumbugal	Bones
7)	Onan	Calotis (Common Agemaid Lizard)
8)	Kasthuri	Moschus moschiferus musk
9)	Kzhingial	Ostrea edults linn (Common oyster shell)
10)	Kulambugal	Hoofs
11)	Kulavikkoondu	Wasps nest
12)	Kombarakku	Carteria Lacca (Lac)
13)	Kombugal	Horns
14)	Korochanam	Fel Borinum purifactum (Oxbile)
15)	Kozhi	Gallus domes (Domestic cock & hen)
16)	Sangu	Turbinella rapa (Conch Shell)
17)	Chanam	Dung
18)	Siruneer	Urine
19)	Thantham	Teeth
20)	Thean	Honey
21)	Nandu	Crab
22)	Nathai	Fresh Water Snail
23)	Palagarai	Cypraea moneta Linn (Cowry)
24)	Pantri	Sus indicushog (Pig)
25)	Pambu chattai	Snake's slough
26)	Palum pal porutkalum	Milk and milk products
27)	Pitchi	Bile
28)	Punugu	Viverra Civetta (Civet cat)
29)	Poo nagam	Earth Worm
30)	Min mini poochi	Fire fly
31)	Muttai oodugal	Egg shells
32)	Musiru muttai	Egg of Formica Smaragdina
33)	Muthuchippi	Mytilus marginiferus (Pearl Oyster Shell)
34)	Mezhugu	Wax

Note: Questions for 80% of marks shall be taken from the aforesaid list and the questions for the rest 20% of marks shall be from the below list which can be studied by the students themselves with the guidance of the teacher.

Sl.No	Tamil Name	English Name/Scientific Name
1.	Thottippashanam	A pharmaceutical preparation of Arsenic combined with mercury & sulphur.

2.	Ekambacharam	A Prepared Salt (an efflorescentsalt)
3.	Kadal nurai	Sea froth engendered by submarine fire
4.	Kaichulavanam	Salt produced from the earth impregnated with soda
5.	Thilalavanam	A salt derived from sessamum
6.	Komedagam	Onyx (Berly)
7.	Neelamani	Sapphire
8.	Pushparagam	Topaz, Yellow Topaz
9.	Maragadham	Emerald
10.	Manickam	Ruby (Carbuncle)
11.	Vaidooriyam	Cats eye (Chryso prase)
12.	Vairam	Diamond
13.	Kal-matham	
14.	Nimilai	Bismuth
15.	Sathirabedhi	
16.	Alkattipatchi	
17.	Udumbu	Varanus Sps (Monitor)
18.	Kaandamiruga kombu	Rhinoceros unicornis
19.	Sura	Squalus carcharius (Shark)
20.	Nariecham	Jackal's excreta
21.	Puli	Tiger
22.	Mayil	Pavo Cristatus Linn (Pea Cock)
23.	Maan	Deer
24.	Mudhalai	Crocodills porosus (Crocodile)
25.	Yanai	Elephas indicas (Elephant)

Reference books:

- 1) Text of Gunapadam – Thatu Jeeva Vaguppu – Vol. II & III – by Dr.R.Thiagarajan
- 2) Pathartha Guna Chindamani
- 3) Pathartha Guna Vilakkam – Kannusamy
- 4) Materia Medica - Vol. I & II – by Dr. Natkarni
- 5) Siddha Vaidhya Thirattu – by Dr. C.S. Uthamarayan
- 6) Pharmacology & Phamacotherapeutics - by R.S Satoskar
- 7) Drug testing protocol for ASU Drugs – Published by PLIM

MARKS DISTRIBUTION FOR PRACTICAL FOR GUNAPADAM-MARUNTHIYAL PAPER I & II

MAXIMUM MARKS : 100

- | | |
|---|-----------------|
| 1. PURIFICATION METHODS | 30 MARKS |
| 2. RAW MATERIALS IDENTIFICATION- (5 SPOTTERS) | 20 MARKS |
| 3. QUALITATIVE ANALYSIS OF INORGANIC & PHYTOCHEMICALS CONSTITUENTS – LABORATORY TESTS | 20 MARKS |

TO DETECT THE PRESENCE OF -Aluminium, calcium, copper,iron, Magnesium, Mercury, Potassium, Sodium, Carbonates and Bicarbonates, Sulphates, Chlorides

TO DETECT THE PRESENCE OF -Acids, Alkaloids, Aminoacids and proteins, carbohydrates, Fats and oils, flavanoids, Glycosides, Lignans, Phenols, Quinones, Resins, Saponins, Steroids, Tannins, Terpenoids.

- | | |
|-------------------------------|-----------------|
| 4. PRACTICAL ASPECT VIVA VOCE | 30 MARKS |
|-------------------------------|-----------------|