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**CHIROPTERAN FAUNA AT GARDEN AREA OF KOLEJ UNIVERSITI
SAINS DAN TEKNOLOGI MALAYSIA (KUSTEM)**

By

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the requirement for the degree of
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**JABATAN SAINS BIOLOGI
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**PENGAKUAN DAN PENGESAHAN LAPORAN
PROJEK PENYELIDIKAN I DAN II**

Adalah ini diakui dan disahkan bahawa laporan penyelidikan bertajuk: CHIROPTERAN FAUNA AT GARDEN AREA OF KOLEJ UNIVERSITI SAINS DAN TEKNOLOGI MALAYSIA (KUSTEM) oleh SURIYA A/P KRISHNAN, no. matrik: UK7939 telah diperiksa dan semua pembedaan yang disarankan telah dilakukan. Laporan ini dikemukakan kepada Jabatan Sains Biologi sebagai memenuhi sebahagian daripada keperluan memperolehi Ijazah Sarjana Muda Sains Gunaan (Pemuliharaan dan Pengurusan Biodiversiti), Fakulti Sains dan Teknologi, Kolej Universiti Sains dan Teknologi Malaysia.

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LIST OF ABBREVIATIONS

SYMBOLS

°

%

FA

m

km

g

cm

mm

MEANS

Degree

Percentage

Forearm

Meter

Kilometer

Gram

centimeter

milimeter

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ABSTRACT

A study on the Chiropteran fauna at garden area of Kolej Universiti Sains dan Teknologi Malaysia was carried out for 30 days from the month of August 2005 until January 2006 to investigate the diversity of bats species and to establish checklist of bats species found at KUSTEM area. Four study stations were selected and eight mist nets were used.. The captured bats were identified, tagged, weighed, their forearm was measured, sex, maturity and reproduction status were recorded before the bats were released. A total of 106 bats from five different species were captured. The highest number of bats captured was *Cynopterus hosfieldi* with 66 individuals followed by *C. bracyotis* 29 individuals, six *Eonycteris spelaea*, four *C. sphinx* and one *Murina rozendaali*. The highest number of capture was on the month of September. This study shows the influences of weather conditions, fruiting season, vegetations and sampling methods is important to determine the species diversity and their abundance at a specific area and time.

**FAUNA CHIROPTERAN DI KAWASAN TAMAN SEKITAR KOLEJ
UNIVERSITI SAINS DAN TEKNOLOGI MALAYSIA (KUSTEM)**

ABSTRAK

Kajian tentang fauna Chiroptera di kawasan taman Kolej Universiti sains dan Teknologi Malaysia telah dijalankan selama 30 hari dari bulan Ogos 2005 sehingga Januari 2006. Kajian ini adalah untuk mengenal pasti kepelbagaian species kelawar dan melengkapkan senarai data tentang taburan spesis kelawar yang dijumpai di kawasan taman KUSTEM. Empat kawasan taman telah ditetapkan dan lapan jaring kabus didirikan. Kelawar yang ditangkap diukur lengannya, jantina, berat, umur, status pembiakkan dan spesis dikenalpasti dan ditanda sebelum dilepaskan semula. Sejumlah 106 kelawar dari lima jenis spesis berbeza berjaya ditangkap. Spesis kelawar paling banyak ditangkap ialah *Cynopterus hosfieldi* mencatatkan 66 ekor diikuti dengan *C. bracyotis* 29 ekor, enam *Eonycteris spelaea*, empat *C. sphinx* dan seekor *Murina rozendaali*. Bilangan kelawar paling tinggi ditangkap pada bulan September mencatatkan 48 ekor dan tangkapan berkurangan secara konsisten sehingga tiada tangkapan pada bulan Januari. Dalam kajian ini didapati keadaan cuaca, musim berbuah, jenis tumbuhan dan kaedah penangkapan adalah penting untuk menntukan taburan dan kepelbagaian spesis di suatu kawasan pada masa tertentu.